



---

# **Spreckels Distribution Center**

## **CONSTRUCTION AND OPERATIONAL HEALTH RISK ASSESSMENT**

### **CITY OF MANTECA**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Michael Tirohn  
mtirohn@urbanxroads.com

FEBRUARY 20, 2025



## **TABLE OF CONTENTS**

|                                                                            |            |
|----------------------------------------------------------------------------|------------|
| <b>TABLE OF CONTENTS.....</b>                                              | <b>I</b>   |
| <b>APPENDICES.....</b>                                                     | <b>I</b>   |
| <b>LIST OF EXHIBITS.....</b>                                               | <b>II</b>  |
| <b>LIST OF TABLES .....</b>                                                | <b>II</b>  |
| <b>LIST OF ABBREVIATED TERMS .....</b>                                     | <b>III</b> |
| <b>EXECUTIVE SUMMARY .....</b>                                             | <b>1</b>   |
| <b>1 INTRODUCTION.....</b>                                                 | <b>7</b>   |
| 1.1 Site Location.....                                                     | 7          |
| 1.2 Project Description.....                                               | 7          |
| <b>2 BACKGROUND.....</b>                                                   | <b>11</b>  |
| 2.1 Background on Recommended Methodology .....                            | 11         |
| 2.2 Construction Health Risk Assessment.....                               | 11         |
| 2.3 Operational Health Risk Assessment .....                               | 14         |
| 2.4 Exposure Quantification.....                                           | 21         |
| 2.5 Carcinogenic Chemical Risk.....                                        | 22         |
| 2.6 Non-carcinogenic Exposures .....                                       | 24         |
| 2.7 Potential Project-Related DPM Source Cancer and Non-Cancer Risks ..... | 25         |
| <b>3 CUMULATIVE HEALTH RISKS.....</b>                                      | <b>29</b>  |
| 3.1 Background .....                                                       | 29         |
| 3.2 Health Risk from Cumulative Criteria Pollutants .....                  | 29         |
| 3.3 Existing Conditions for Toxic Emissions .....                          | 31         |
| 3.4 Ambient TAC Impacts Presumed to be Cumulatively Significant .....      | 31         |
| 3.4 Justification of a Geographic Scope in Risk Assessment.....            | 32         |
| 3.5 Cumulative TAC Impacts .....                                           | 33         |
| <b>4 REFERENCES.....</b>                                                   | <b>36</b>  |
| <b>5 CERTIFICATIONS.....</b>                                               | <b>38</b>  |

## **APPENDICES**

**APPENDIX 2.1: CALEEMOD OUTPUTS**  
**APPENDIX 2.2: EMFAC EMISSIONS SUMMARY**  
**APPENDIX 2.3: AERMOD MODEL INPUT/OUTPUT – CONSTRUCTION**  
**APPENDIX 2.4: AERMOD MODEL INPUT/OUTPUT – OPERATIONS**  
**APPENDIX 2.5: RISK CALCULATIONS**  
**APPENDIX 2.6: MODELED RECEPTORS**

## **LIST OF EXHIBITS**

|                                                          |    |
|----------------------------------------------------------|----|
| EXHIBIT 1-A: LOCATION MAP .....                          | 8  |
| EXHIBIT 1-B: SITE PLAN.....                              | 9  |
| EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES ..... | 13 |
| EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES .....      | 17 |
| EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES .....     | 18 |
| EXHIBIT 2-D: RECEPTOR LOCATIONS.....                     | 27 |

## **LIST OF TABLES**

|                                                                                          |    |
|------------------------------------------------------------------------------------------|----|
| TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS .....                    | 3  |
| TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS.....                      | 4  |
| TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS ....     | 5  |
| TABLE 2-1: CONSTRUCTION DURATION.....                                                    | 12 |
| TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS.....                                       | 12 |
| TABLE 2-3: 2026 WEIGHTED AVERAGE DPM EMISSIONS FACTORS .....                             | 15 |
| TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2026 ANALYSIS YEAR) .....                  | 19 |
| TABLE 2-5: AERMOD MODEL PARAMETERS.....                                                  | 21 |
| TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY) ..... | 22 |
| TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL) .....   | 23 |
| TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER) .....        | 23 |
| TABLE 2-9: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD) .....   | 23 |
| TABLE 3-1: CUMULATIVE INDUSTRIAL/WAREHOUSE FACILITIES .....                              | 34 |

## **LIST OF ABBREVIATED TERMS**

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| (1)              | Reference                                                                        |
| µg               | Microgram                                                                        |
| AERMOD           | American Meteorological Society/Environmental Protection Agency Regulatory Model |
| AQMD             | Air Quality Management District                                                  |
| ASF              | Age Sensitivity Factor                                                           |
| CAPCOA           | California Air Pollution Control Officers Association                            |
| CARB             | California Air Resources Board                                                   |
| CEQA             | California Environmental Quality Act                                             |
| CPF              | Cancer Potency Factor                                                            |
| DPM              | Diesel Particulate Matter                                                        |
| EMFAC            | Emission Factor Model                                                            |
| EPA              | Environmental Protection Agency                                                  |
| FAH              | Fraction of Time at Home                                                         |
| HHD              | Heavy Heavy-Duty                                                                 |
| HI               | Hazard Index                                                                     |
| HRA              | Health Risk Assessment                                                           |
| ITE              | Institute of Transportation Engineers                                            |
| LHD              | Light Heavy-Duty                                                                 |
| MATES            | Multiple Air Toxics Exposure Study                                               |
| MEIR             | Maximally Exposed Individual Receptor                                            |
| MEISC            | Maximally Exposed Individual School Child                                        |
| MEIW             | Maximally Exposed Individual Worker                                              |
| MHD              | Medium Heavy-Duty                                                                |
| MM               | Mitigation Measure                                                               |
| OEHHA            | Office of Environmental Health Hazard Assessment                                 |
| PM <sub>10</sub> | Particulate Matter 10 microns in diameter or less                                |
| Project          | Spreckels Distribution Center                                                    |
| REL              | Reference Exposure Level                                                         |
| SCAQMD           | South Coast Air Quality Management District                                      |
| SJVAPCD          | San Joaquin Valley Air Pollution Control District                                |
| TAC              | Toxic Air Contaminant                                                            |
| TRU              | Transport Refrigeration Unit                                                     |
| URF              | Unit Risk Factor                                                                 |
| UTM              | Universal Transverse Mercator                                                    |

*This page intentionally left blank*

## EXECUTIVE SUMMARY

This report evaluates the potential health risk impacts to sensitive receptors (residents) and adjacent workers associated with the development of the proposed Project, more specifically, health risk impacts as a result of exposure to Toxic Air Contaminants (TACs) including diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Tables ES-1, ES-2, and ES-3 below for the Project.

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction DPM source emissions is Location R4 which is located immediately to the west of the Project site at the existing residence at 332 Cowell Avenue. Receptor R4 is placed in the private outdoor living areas (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction DPM source emissions is estimated at 3.02 in one million, which is less than the San Joaquin Valley Air Pollution Control District (SJVAPCD) significance threshold of 20 in one million. At this same location, non-cancer risks were estimated to be  $\leq 0.01$ , which would not exceed the applicable threshold of 1.0. Because all other modeled residential receptors are located at a greater distance from the Project site and are exposed to lesser concentrations of DPM than the MEIR analyzed herein, and TACs generally dissipate with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than MEIR identified herein. The nearest modeled receptors are illustrated in Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R4 which is located immediately to the west of the Project site at the existing residence at 332 Cowell Avenue. Receptor R4 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 26.51 in one million without mitigation, which would exceed the SJVAPCD significance threshold of 20 in one million. With mitigation, the maximum incremental cancer risk at the MEIR is estimated at 8.04 in one million, which would not exceed the SJVAPCD significance threshold of 20 in one million. At this same location, non-cancer risks were estimated to be 0.04 without mitigation and 0.01 with mitigation, neither of which would exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are located at a greater distance from the Project site and primary truck routes and are exposed to lesser concentrations of DPM than the MEIR analyzed herein, and TACs generally dissipate with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such,

with mitigation the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated in Exhibit 2-D.

Worker Exposure Scenario<sup>1</sup>:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R6, which represents the adjacent potential worker receptor approximately 116 feet south of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 6.28 in one million without mitigation and 1.99 with mitigation, both of which are less than the SJVAPCD threshold of 20 in one million. Maximum non-cancer risks at this same location were estimated to be  $\leq 0.01$  with and without mitigation, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance and would experience lower concentrations of DPM than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated in Exhibit 2-D.

School Child Exposure Scenario:

The nearest school and location of the maximally exposed individual school child (MEISC) is Lincoln Elementary School, located approximately 1,231 feet northwest of the Project site. At the MEISC, the maximum incremental cancer risk impact attributable to the Project is calculated to be 1.29 in one million without mitigation and 0.40 in one million with mitigation, both of which are less than the significance threshold of 20 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be  $\leq 0.01$  with and without mitigation, which would not exceed the applicable significance threshold of 1.0. Because all other modeled school receptors would be exposed to lower concentrations of DPM, all other school receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEISC identified herein.

**CONSTRUCTION AND OPERATIONAL IMPACTS**

The land use with the greatest potential exposure to Project construction and operational DPM source emissions is Location R4. At the MEIR, the maximum incremental cancer risk attributable to Project construction and operational DPM source emissions is estimated at 23.70 in one million without mitigation, which would exceed the SJVAPCD threshold of 20 in one million. With mitigation, the combined construction and operational cancer risk is reduced to 9.29 in one million, which would not exceed the SJVAPCD threshold of 20 in one million. At this same location, non-cancer risks were estimated to be 0.04 without mitigation and 0.02 with mitigation, neither of which would exceed the applicable threshold of 1.0. All other receptors during

---

1 SJVAPCD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.



construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated in Exhibit 2-D.

**TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS**

| Time Period        | Location                                         | Maximum Lifetime Cancer Risk (Risk per Million) | Significance Threshold (Risk per Million) | Exceeds Significance Threshold |
|--------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------|--------------------------------|
| 0.85 Year Exposure | Maximum Exposed Sensitive Receptor (Location R4) | 3.02                                            | 20                                        | NO                             |
| Time Period        | Location                                         | Maximum Hazard Index                            | Significance Threshold                    | Exceeds Significance Threshold |
| Annual Average     | Maximum Exposed Sensitive Receptor (Location R4) | ≤0.01                                           | 1.0                                       | NO                             |

**TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS**

| Scenario           | Time Period      | Location                                              | Maximum Lifetime Cancer Risk (Risk per Million) | Significance Threshold (Risk per Million) | Exceeds Significance Threshold |
|--------------------|------------------|-------------------------------------------------------|-------------------------------------------------|-------------------------------------------|--------------------------------|
| Without Mitigation | 30 Year Exposure | Maximum Exposed Sensitive Receptor (Location R4)      | 26.51                                           | 20                                        | YES                            |
|                    | 25 Year Exposure | Maximum Exposed Worker Receptor (Location R6)         | 6.28                                            | 20                                        | NO                             |
|                    | 9 Year Exposure  | Maximum Exposed Individual School Child (Location R8) | 1.29                                            | 20                                        | NO                             |
| With Mitigation    | 30 Year Exposure | Maximum Exposed Sensitive Receptor (Location R4)      | 8.04                                            | 20                                        | NO                             |
|                    | 25 Year Exposure | Maximum Exposed Worker Receptor (Location R6)         | 1.99                                            | 20                                        | NO                             |
|                    | 9 Year Exposure  | Maximum Exposed Individual School Child (Location R8) | 0.40                                            | 20                                        | NO                             |
| Scenario           | Time Period      | Location                                              | Maximum Hazard Index                            | Significance Threshold                    | Exceeds Significance Threshold |
| Without Mitigation | Annual Average   | Maximum Exposed Sensitive Receptor (Location R4)      | 0.04                                            | 1.0                                       | NO                             |
|                    | Annual Average   | Maximum Exposed Worker Receptor (Location R6)         | 0.02                                            | 1.0                                       | NO                             |
|                    | Annual Average   | Maximum Exposed Individual School Child (Location R8) | ≤0.01                                           | 1.0                                       | NO                             |
| With Mitigation    | Annual Average   | Maximum Exposed Sensitive Receptor (Location R4)      | ≤0.01                                           | 1.0                                       | NO                             |
|                    | Annual Average   | Maximum Exposed Worker Receptor (Location R6)         | ≤0.01                                           | 1.0                                       | NO                             |
|                    | Annual Average   | Maximum Exposed Individual School Child (Location R8) | ≤0.01                                           | 1.0                                       | NO                             |

**TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS**

| Scenario           | Time Period      | Location                                         | Maximum Lifetime Cancer Risk (Risk per Million) | Significance Threshold (Risk per Million) | Exceeds Significance Threshold |
|--------------------|------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------|--------------------------------|
| Without Mitigation | 30 Year Exposure | Maximum Exposed Sensitive Receptor (Location R4) | 23.70                                           | 20                                        | YES                            |
| With Mitigation    | 30 Year Exposure | Maximum Exposed Sensitive Receptor (Location R4) | 9.29                                            | 20                                        | NO                             |
| Scenario           | Time Period      | Location                                         | Maximum Hazard Index                            | Significance Threshold                    | Exceeds Significance Threshold |
| Without Mitigation | Annual Average   | Maximum Exposed Sensitive Receptor (Location R4) | 0.04                                            | 1.0                                       | NO                             |
| With Mitigation    | Annual Average   | Maximum Exposed Sensitive Receptor (Location R4) | 0.02                                            | 1.0                                       | NO                             |

**PROJECT MITIGATION MEASURES**

TAC emissions generated as a result of proposed Project construction activities would not exceed SJVAPCD cancer or non-cancer health risk thresholds; thus, mitigation of Project construction emissions is not required.

However, Project operational TAC emissions would exceed the SJVAPCD cancer risk threshold and would thus be considered potentially significant. Non-cancer health risk associated from operation of the proposed Project would not exceed SJVAPCD significance thresholds. Mitigation measures (MMs) HRA-1 through HRA-3 are designed to reduce TAC emissions associated with the operation of transport refrigeration units (TRUs) and truck idling while loading and unloading at building loading docks. With implementation of MMs HRA-1 through HRA-3 below, the proposed Project's operational TAC emissions would not exceed SJVAPCD cancer risk significance thresholds; thus, with implementation of MMs HRA-1 through HRA-3, the proposed Project's operational TAC emissions would result in a less than significant health risk impact.

**MM HRA-1**

Prior to the issuance of a building permit, the building's electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power to trailers with TRUs during the loading/unloading of refrigerated goods. Conduit should be installed from the electrical room to the loading docks determined by the Project Applicant during construction document plan check as the logical location(s) to receive trailers with TRUs.

MM HRA-2

Prior to the issuance of a building permit for a cold storage operator, the Project applicant shall provide evidence to the City that all TRU loading docks install electrical hookups to facilitate plug-in capabilities and support use of electric standby and/or hybrid electric TRUs, and all loading docks are designed to be compatible with SmartWay trucks. All site and architectural plans submitted to the City Planning Department shall note all the truck/dock bays designated for electrification.

MM HRA-3

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable CARB anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and CARB to report violations. Prior to the issuance of an occupancy permit, the City shall conduct a site inspection to ensure that the signs are in place.

With implementation of these mitigation measures, the analysis assumes that TRU engine operation would not exceed 30 minutes while parked at building loading docks.

# 1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate Project-related impacts to the nearest sensitive receptors (residents) and workers as a result of heavy-duty diesel trucks accessing the site.

The SJVAPCD identifies that if a proposed Project is expected to generate/attract heavy-duty diesel trucks, which emit DPM, preparation of a mobile source HRA is recommended. This document serves to meet the SJVAPCD's recommendation for preparation of an HRA. The mobile source HRA has been prepared in accordance with the relevant documentation available including SJVAPCD's Guidance for Assessing and Mitigating Air Quality Impacts (1) and Guidance for Air Dispersion Modeling (2), and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SJVAPCD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SJVAPCD has established an incidence rate of twenty (20) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure from a project such as the proposed Project (3). This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The SJVAPCD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index of less than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant (3). Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

## 1.1 SITE LOCATION

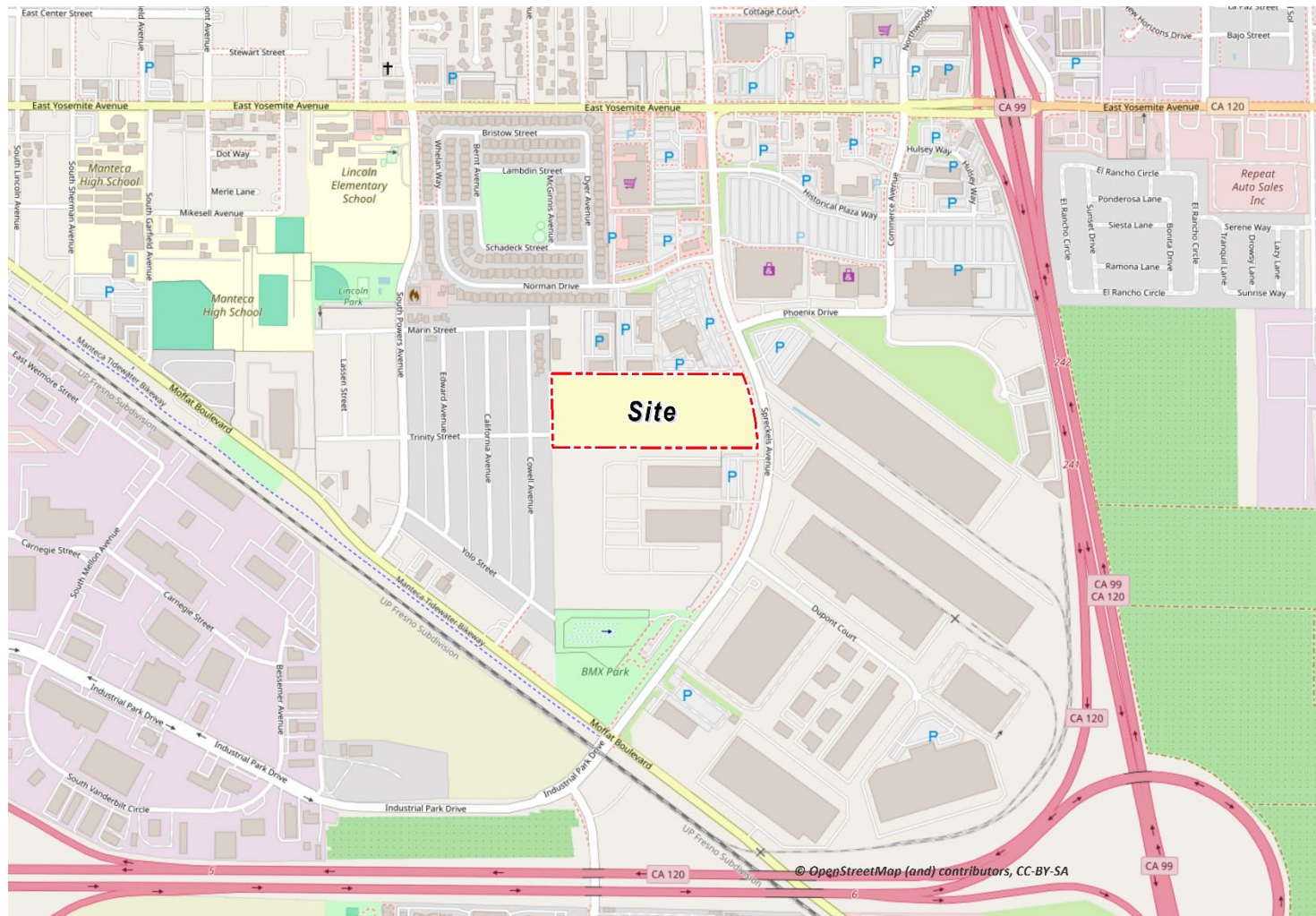
The proposed Spreckels Distribution Center (Project) is located at 407 Spreckels Avenue in the City of Manteca, as shown in Exhibit 1-A.

## 1.2 PROJECT DESCRIPTION

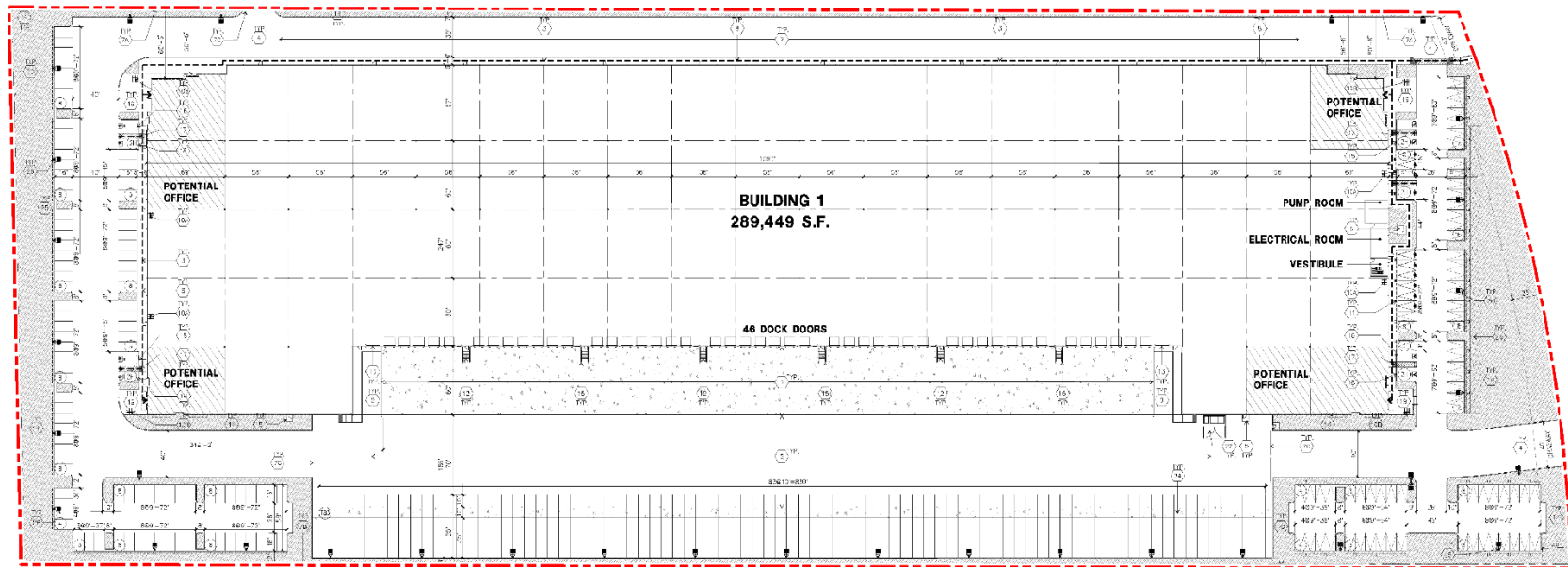
The Project Applicant is processing a Conditional Use Permit and Site Plan Review for the proposed Project to redevelop the Project site with a modern, 289,449 square feet (SF) warehouse and office building with 46 truck dock doors, 180 standard parking spaces, six (6) accessible parking spaces, and 63 truck trailer spaces. Of the total square footage of the building, the Project would allocate 296,230 sf for warehousing/distribution and 8,000 sf for office uses. Currently, the Project site is vacant and undeveloped, consisting primarily of ruderal grasses, which appear to be regularly disked. An eight-foot solid sound wall extends along the western site boundary, and the Manteca Tidewater Bikeway extends along the eastern site boundary.

A preliminary site plan for the proposed Project is shown in Exhibit 1-B. The proposed Project has an anticipated opening year of 2026.

EXHIBIT 1-A: LOCATION MAP



## EXHIBIT 1-B: SITE PLAN



*This page intentionally left blank*



## 2 BACKGROUND

### 2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on applicable guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per  $\mu\text{g}/\text{m}^3$  is based upon the upper 95<sup>th</sup> percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95<sup>th</sup> percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body.
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.<sup>2</sup> California Air Resources Board (CARB) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

The SJVAPCD has established an incidence rate of twenty (20) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure from a project such as the proposed Project (3).

Non-carcinogenic risk is expressed as a hazard index, which is quantified by comparing the exposure to the reference level via a ratio (i.e., the exposure divided by the appropriate chronic or acute value). Exposures below the reference level (a hazard index of 1.0) are not likely to be associated with any adverse health effects and are considered to be less than significant.

### 2.2 CONSTRUCTION HEALTH RISK ASSESSMENT

#### 2.2.1 EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *Spreckels Distribution Center Air Quality Impact Analysis* (AQIA) prepared by Urban Crossroads, Inc. (4)

Construction related DPM emissions are expected to occur primarily as a function of heavy-duty construction equipment that would be operating on-site.

As discussed in the AQIA, the Project would result in approximately 221 total working-days of construction activity. The construction duration by phase is shown in Table 2-1. A detailed summary of construction equipment assumptions by phase is provided in Table 2-2. The

---

<sup>2</sup> Although the Project is required to comply with ARB's idling limit of 5 minutes, the analysis conservatively assumes that each truck would idle for a period of 15 minutes, which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated in Exhibit 2-A.

**TABLE 2-1: CONSTRUCTION DURATION**

| Construction Activity | Start Date | End Date  | Working Days |
|-----------------------|------------|-----------|--------------|
| Site Preparation      | 2/1/2025   | 2/7/2025  | 5            |
| Grading               | 2/8/2025   | 3/5/2025  | 18           |
| Building Construction | 3/6/2025   | 12/8/2025 | 198          |
| Paving                | 10/28/2025 | 12/8/2025 | 30           |
| Architectural Coating | 10/28/2025 | 12/8/2025 | 30           |

**TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

| Construction Activity | Equipment                 | Amount | Hours Per Day |
|-----------------------|---------------------------|--------|---------------|
| Site Preparation      | Crawler Tractors          | 3      | 8             |
| Grading               | Excavators                | 1      | 8             |
|                       | Graders                   | 1      | 8             |
|                       | Rubber Tired Dozers       | 1      | 8             |
|                       | Scrapers                  | 3      | 8             |
| Building Construction | Cranes                    | 1      | 8             |
|                       | Forklifts                 | 3      | 8             |
|                       | Generator Sets            | 1      | 8             |
|                       | Tractors/Loaders/Backhoes | 4      | 8             |
|                       | Welders                   | 1      | 8             |
| Paving                | Pavers                    | 2      | 8             |
|                       | Paving Equipment          | 2      | 8             |
|                       | Rollers                   | 2      | 8             |
| Architectural Coating | Air Compressors           | 1      | 8             |

**EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES**



## 2.3 OPERATIONAL HEALTH RISK ASSESSMENT

### 2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than  $10\mu\text{m}$  in diameter ( $\text{PM}_{10}$ ) generated with the 2021 version of the Emission FACTor model (EMFAC) developed by the CARB. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (5). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average  $\text{PM}_{10}$  emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the San Joaquin County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck trailer parking
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2026 EMFAC 2021 run was conducted and a static 2026 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2026 emission factors would overstate potential impacts since this approach assumes that emission factors remain “static” and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2026. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 60.2% diesel, Medium-Heavy-Duty Trucks are comprised of 92.1% diesel, and Heavy-Heavy-Duty Trucks are comprised of 97.4% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust  $\text{PM}_{10}$  emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (6):

$$Emissions_{Speed A} = EF_{Run Exhaust} \times Distance \times \frac{Number of Trips per Day}{Seconds per Day}$$

Where:

|                       |   |                                                                              |
|-----------------------|---|------------------------------------------------------------------------------|
| $Emissions_{Speed A}$ | = | Vehicle emissions at a given speed A (g/s)                                   |
| $EF_{Run Exhaust}$    | = | EMFAC running exhaust PM <sub>10</sub> emission factor at speed A<br>(g/vmt) |
| $Distance$            | = | Total distance traveled per trip (miles)                                     |

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM<sub>10</sub> emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (6):

$$Emissions_{Idle} = EF_{Idle} \times Number of Trips \times Idling Time \times \frac{60 minutes per hour}{seconds per day}$$

Where:

|                    |   |                                                           |
|--------------------|---|-----------------------------------------------------------|
| $Emissions_{Idle}$ | = | Vehicle emissions during Idling (g/s)                     |
| $EF_{Idle}$        | = | EMFAC idle exhaust PM <sub>10</sub> emission factor (g/s) |
| $Number of Trips$  | = | Number of trips per day                                   |
| $Idling Time$      | = | Idling time (minutes per trip)                            |

**TABLE 2-3: 2026 WEIGHTED AVERAGE DPM EMISSIONS FACTORS**

| Speed      | Weighted Average   |
|------------|--------------------|
| 0 (idling) | 0.12421(g/idle-hr) |
| 5          | 0.02626 (g/mile)   |
| 25         | 0.01093 (g/mile)   |

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendices 2.3 through 2.6. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated at Table 2-4. The modeled emission sources are illustrated in Exhibit 2-B for on-site sources and Exhibit 2-C for off-site sources. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for more than ¾ mile. This modeling domain is more inclusive and conservative than using

only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (7) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).



## EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES

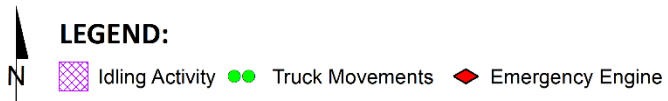
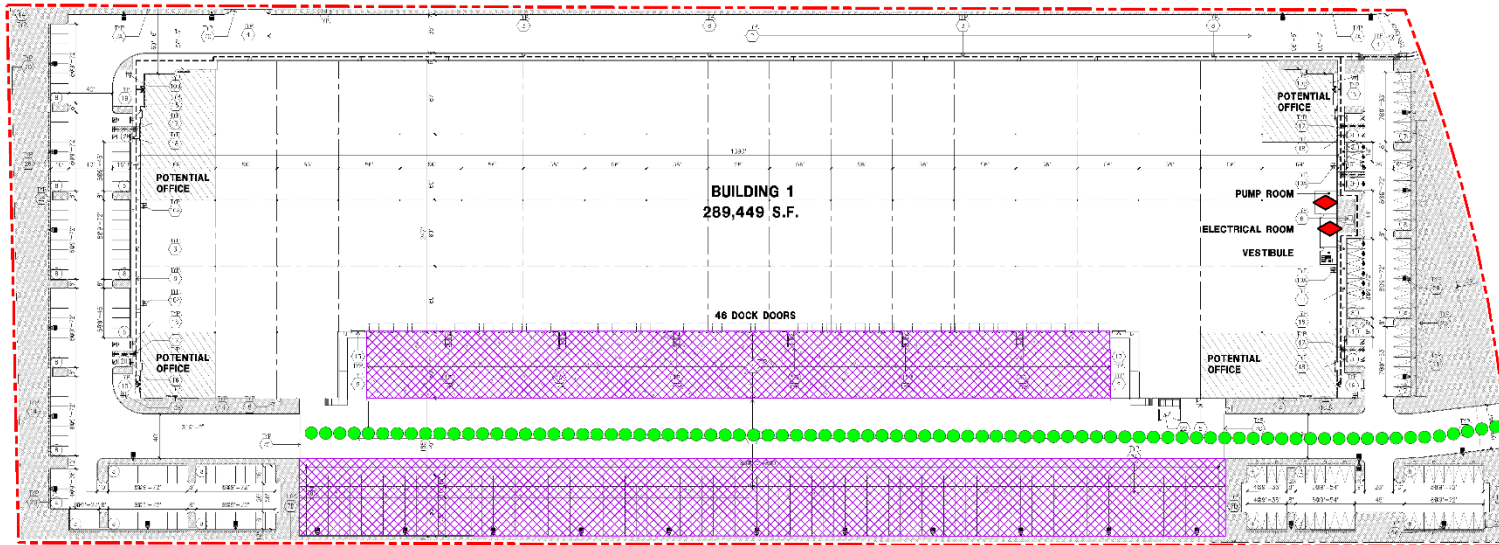


EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES

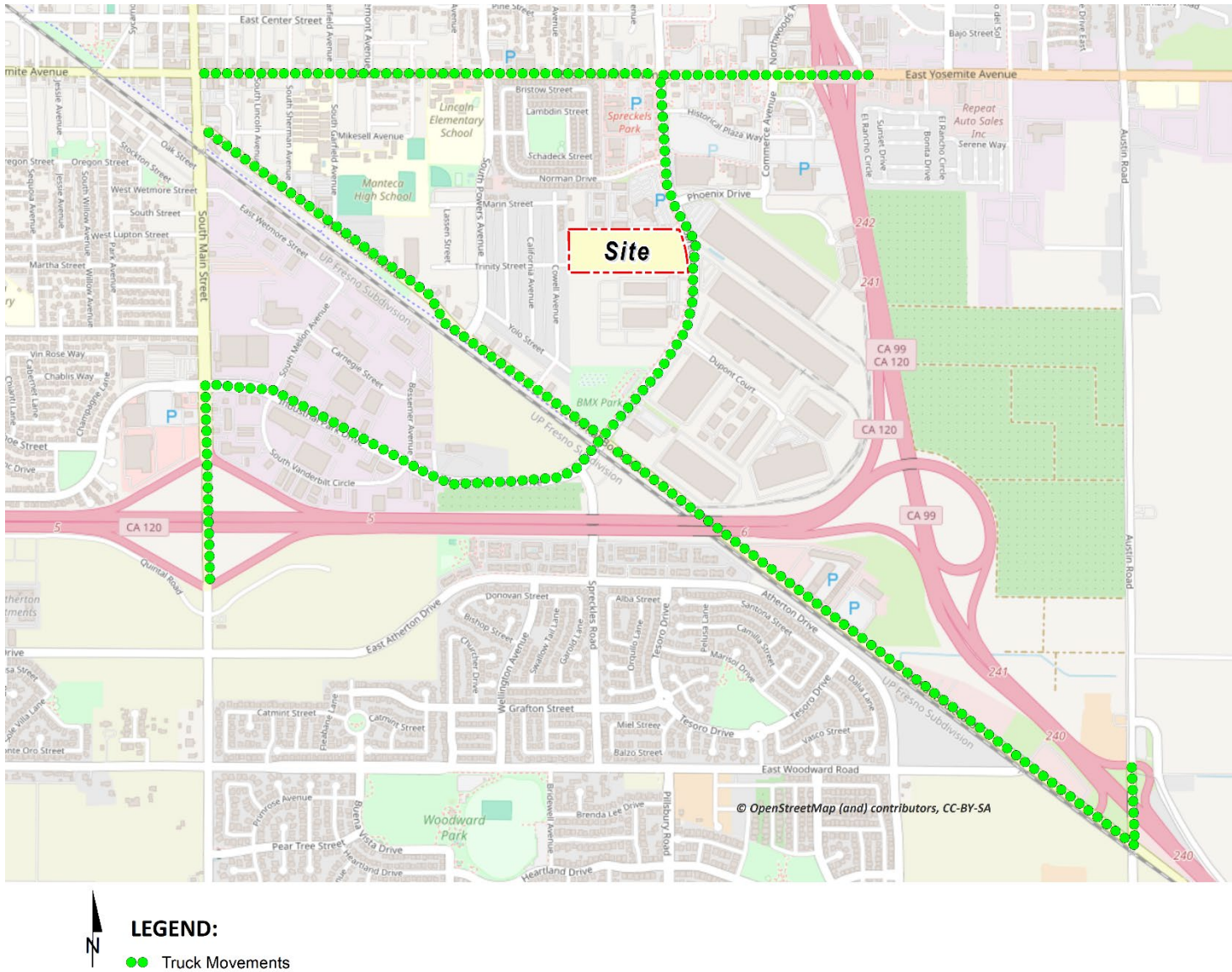




TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2026 ANALYSIS YEAR)

| Truck Emission Rates - Without Mitigation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------------------------------|--------------------------------------|
| Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trucks Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | TRU Emissions<br>(grams/day) <sup>d</sup> | Modeled Emission Rates<br>(g/second) |
| On-Site Idling - Loading Docks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 108            |                                 |                                                  | 0.1242                                                | 3.37                                              | 146.108                                   | 1.730E-03                            |
| On-Site Idling - Trailer Parking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 108            |                                 |                                                  | 0.1242                                                | 1.12                                              | 0.000                                     | 1.300E-05                            |
| On-Site Travel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 217            | 46.88                           | 0.0263                                           |                                                       | 1.23                                              | 6.122                                     | 8.511E-05                            |
| Off-Site Travel - Spreckels Ave. 71.12% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 154            | 67.52                           | 0.0109                                           |                                                       | 0.74                                              | 1.763                                     | 2.895E-05                            |
| Off-Site Travel - Spreckels Ave. 37.93% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 82             | 113.24                          | 0.0109                                           |                                                       | 1.24                                              | 2.957                                     | 4.855E-05                            |
| Off-Site Travel - Mofatt Blvd. 9.27% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20             | 22.02                           | 0.0109                                           |                                                       | 0.24                                              | 0.575                                     | 9.441E-06                            |
| Off-Site Travel - Mofatt Blvd. 23.92% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 52             | 88.10                           | 0.0109                                           |                                                       | 0.96                                              | 2.301                                     | 3.777E-05                            |
| Off-Site Travel - Spreckels Ave. 28.89% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 63             | 25.70                           | 0.0109                                           |                                                       | 0.28                                              | 0.671                                     | 1.102E-05                            |
| Off-Site Travel - Yosemite Ave. 3.40% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7              | 7.36                            | 0.0109                                           |                                                       | 0.08                                              | 0.192                                     | 3.156E-06                            |
| Off-Site Travel - Yosemite Ave. 24.22% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 53             | 22.51                           | 0.0109                                           |                                                       | 0.25                                              | 0.588                                     | 9.651E-06                            |
| Off-Site Travel - Spreckels Ave. 1.27% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3              | 0.67                            | 0.0109                                           |                                                       | 0.01                                              | 0.018                                     | 2.880E-07                            |
| <sup>a</sup> Vehicle miles traveled are for modeled truck route only.<br><sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.<br><sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes at loading docks and 5 minutes at trailer parking areas.<br><sup>d</sup> This column assumes each TRU operates at building loading docks for 2.1 hours. |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |

| Truck Emission Rates - With Mitigation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------------------------------|--------------------------------------|
| Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Trucks Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | TRU Emissions<br>(grams/day) <sup>d</sup> | Modeled Emission Rates<br>(g/second) |
| On-Site Idling - Loading Docks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 108            |                                 |                                                  | 0.1242                                                | 3.37                                              | 35.420                                    | 4.490E-04                            |
| On-Site Idling - Trailer Parking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 108            |                                 |                                                  | 0.1242                                                | 1.12                                              | 0.000                                     | 1.300E-05                            |
| On-Site Travel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 217            | 46.88                           | 0.0263                                           |                                                       | 1.23                                              | 6.122                                     | 8.511E-05                            |
| Off-Site Travel - Spreckels Ave. 71.12% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 154            | 67.52                           | 0.0109                                           |                                                       | 0.74                                              | 1.763                                     | 2.895E-05                            |
| Off-Site Travel - Spreckels Ave. 37.93% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 82             | 113.24                          | 0.0109                                           |                                                       | 1.24                                              | 2.957                                     | 4.855E-05                            |
| Off-Site Travel - Mofatt Blvd. 9.27% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20             | 22.02                           | 0.0109                                           |                                                       | 0.24                                              | 0.575                                     | 9.441E-06                            |
| Off-Site Travel - Mofatt Blvd. 23.92% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52             | 88.10                           | 0.0109                                           |                                                       | 0.96                                              | 2.301                                     | 3.777E-05                            |
| Off-Site Travel - Spreckels Ave. 28.89% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 63             | 25.70                           | 0.0109                                           |                                                       | 0.28                                              | 0.671                                     | 1.102E-05                            |
| Off-Site Travel - Yosemite Ave. 3.40% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7              | 7.36                            | 0.0109                                           |                                                       | 0.08                                              | 0.192                                     | 3.156E-06                            |
| Off-Site Travel - Yosemite Ave. 24.22% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 53             | 22.51                           | 0.0109                                           |                                                       | 0.25                                              | 0.588                                     | 9.651E-06                            |
| Off-Site Travel - Spreckels Ave. 1.27% Inbound/Outbound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3              | 0.67                            | 0.0109                                           |                                                       | 0.01                                              | 0.018                                     | 2.880E-07                            |
| <sup>a</sup> Vehicle miles traveled are for modeled truck route only.<br><sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.<br><sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes at loading docks and 5 minutes at trailer parking areas.<br><sup>d</sup> This column assumes each TRU operates at building loading docks for 30 minutes. |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |

On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project's diesel-fueled truck and equipment operators will be required by State law to comply with CARB's idling limit of 5 minutes, staff at South Coast Air Quality Management District (SCAQMD) recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (8), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD's recommendation. Truck idling at trailer parking areas was assumed to occur over a period of 5 minutes. Even though the Project is not within the jurisdiction of the SCAQMD, these recommendations are relevant for CEQA purposes since SJVAPCD does not provide similar guidance.

As summarized in the *Proposed Warehouse 407 Spreckels Avenue Traffic Study*, at buildout the proposed Project is expected to generate a total of approximately 614 vehicular trips-ends per day (actual vehicles) which includes 217 two-way truck trips per day (9).

### **2.3.2 TRANSPORT REFRIGERATION UNIT (TRU) EMISSIONS**

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage land use are assumed to also have TRUs. For modeling purposes, all 217 two-way truck trips have been estimated to include TRUs. TRUs are accounted for during on-site and off-site travel. The TRU calculations are based on OFFROAD Model version 2021 (OFFROAD 2021), developed by CARB. OFFROAD 2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption, and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent with assumptions used in the modeling of project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and converting the daily emission levels into hourly emission rates based on the total emission of each criteria pollutant by equipment type and the average daily hours of operations.

### **2.3.3 EMERGENCY ENGINES**

The proposed Project was conservatively assumed to include installation of a 300 horsepower diesel-powered emergency fire pump and a 700 horsepower diesel-powered emergency generator. The emergency engines were each estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Emissions associated with the two stationary emergency diesel-powered emergency engines were calculated using CalEEMod. Each emergency engine was modeled in AERMOD as point source, and because specific engine data is not known at this time, release parameters from the California Air Pollution Control Officers Association Facility Prioritization Guidelines were utilized (10).

## 2.4 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Guidance for Addressing and Mitigating Air Quality Impacts (1). The U.S. EPA's AERMOD model has been utilized. For purposes of this analysis, the Lakes AERMOD View (Version 12.0.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 23132 (11).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters, an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

Model parameters are presented in Table 2-5. As noted below, the analysis utilized the regulatory default options for modeling. The model requires additional input parameters including emission data and local meteorology. Meteorological data from the Modesto monitoring station was used to represent local weather conditions and prevailing winds (12).

**TABLE 2-5: AERMOD MODEL PARAMETERS**

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Regulatory Options                   | Default                                 |
| Dispersion Coefficient (Urban/Rural) | Urban (population 62,651)               |
| Terrain (Flat/Elevated)              | Elevated (Regulatory Default)           |
| Averaging Time                       | Period (5-year Meteorological Data Set) |
| Receptor Height                      | 0 meters (Regulatory Default)           |
| Meteorological Data                  | Modesto (2018-2022)                     |
| Output Type                          | Concentration                           |

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project site's vicinity. The AERMOD dispersion model summary output files for the proposed Project are presented in Appendices 2.3 and 2.4. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker locations and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace's building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents, workers, and school children over a period of 30, 25, and 9 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker and school) land uses in the vicinity of the Project. These receptors are included in the HRA since residents, workers, and school children may be exposed at these locations over a long-term duration of 30, 25, and 9 years, respectively. This methodology is consistent with SJVAPCD and Office of Environmental Health Hazard Assessment (OEHHA) recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR, MEIW, and MEISC because concentrations dissipate with distance.

All receptors were set to existing elevation height so that only ground-level concentrations are analyzed. United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (13).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-6 through 2-9 summarize the Exposure Parameters for residents, workers, and school children based on 2015 OEHHA Guidelines. Appendix 2.5 includes the detailed risk calculation.

## 2.5 CARCINOGENIC CHEMICAL RISK

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 20 in one million implies a likelihood that up to 20 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

**TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)**

| Age    | Daily Breathing Rate (L/kg-day) | Age Specific Factor | Exposure Duration (years) | Fraction of Time at Home | Exposure Frequency (days/year) | Exposure Time (hours/day) |
|--------|---------------------------------|---------------------|---------------------------|--------------------------|--------------------------------|---------------------------|
| 0 to 2 | 1,090                           | 10                  | 0.85                      | 1.00                     | 221                            | 8                         |

**TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)**

| Age        | Daily Breathing Rate (L/kg-day) | Age Specific Factor | Exposure Duration (years) | Fraction of Time at Home | Exposure Frequency (days/year) | Exposure Time (hours/day) |
|------------|---------------------------------|---------------------|---------------------------|--------------------------|--------------------------------|---------------------------|
| -0.25 to 0 | 361                             | 10                  | 0.25                      | 0.85                     | 350                            | 24                        |
| 0 to 2     | 1,090                           | 10                  | 2                         | 0.85                     | 350                            | 24                        |
| 2 to 16    | 572                             | 3                   | 14                        | 0.72                     | 350                            | 24                        |
| 16 to 30   | 261                             | 1                   | 14                        | 0.73                     | 350                            | 24                        |

**TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)**

| Age      | Daily Breathing Rate (L/kg-day) | Age Specific Factor | Exposure Duration (years) | Exposure Frequency (days/year) | Exposure Time (hours/day) |
|----------|---------------------------------|---------------------|---------------------------|--------------------------------|---------------------------|
| 16 to 41 | 230                             | 1                   | 25                        | 250                            | 12                        |

**TABLE 2-9: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)**

| Age     | Daily Breathing Rate (L/kg-day) | Age Specific Factor | Exposure Duration (years) | Exposure Frequency (days/year) <sup>a</sup> | Exposure Time (hours/day) |
|---------|---------------------------------|---------------------|---------------------------|---------------------------------------------|---------------------------|
| 4 to 13 | 631                             | 3                   | 9                         | 180                                         | 12                        |

<sup>a</sup> To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

Guidance from CARB and the California EPA, OEHHA recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the CPF in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSE_{AIR} = \left( C_{AIR} \times \frac{BR}{BW} \times A \times EF \right) \times (1 \times 10^{-6})$$

Where:

$DOSE_{AIR}$  = chronic daily intake (mg/kg/day)

$C_{AIR}$  = concentration of contaminant in air ( $\mu\text{g}/\text{m}^3$ )

|                    |   |                                                                                  |
|--------------------|---|----------------------------------------------------------------------------------|
| $\frac{BR}{BW}$    | = | daily breathing rate normalized to body weight<br>(L/kg BW-day)                  |
| $A$                | = | inhalation absorption factor                                                     |
| $EF$               | = | exposure frequency (days/365 days)                                               |
| $BW$               | = | body weight (kg)                                                                 |
| $1 \times 10^{-6}$ | = | conversion factors ( $\mu\text{g}$ to $\text{mg}$ , $\text{L}$ to $\text{m}^3$ ) |

$$RISK_{AIR} = DOSE_{AIR} \times CPF \times ASF \times FAH \times \frac{ED}{AT}$$

Where:

|              |   |                                             |
|--------------|---|---------------------------------------------|
| $DOSE_{AIR}$ | = | chronic daily intake (mg/kg/day)            |
| $CPF$        | = | cancer potency factor                       |
| $ASF$        | = | age sensitivity factor                      |
| $FAH$        | = | fraction of time at home                    |
| $ED$         | = | number of years within particular age group |
| $AT$         | = | averaging time                              |

## 2.6 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or REL. The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic REL for DPM was established by OEHHA as  $5 \mu\text{g}/\text{m}^3$  (14).

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = \frac{C_{DPM}}{REL_{DPM}}$$

Where:

|             |   |                                                                                         |
|-------------|---|-----------------------------------------------------------------------------------------|
| $HI_{DPM}$  | = | Hazard index (unitless)                                                                 |
| $C_{DPM}$   | = | Annual average DPM concentration ( $\mu\text{g}/\text{m}^3$ )                           |
| $REL_{DPM}$ | = | REL for DPM (the DPM concentration at which no adverse health effects are anticipated). |

## 2.7 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction DPM source emissions is Location R4 which is located immediately to the west of the Project site at the existing residence at 332 Cowell Avenue. Receptor R4 is placed in the private outdoor living areas (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction DPM source emissions is estimated at 3.02 in one million, which is less than the San Joaquin Valley Air Pollution Control District (SJVAPCD) significance threshold of 20 in one million. At this same location, non-cancer risks were estimated to be  $\leq 0.01$ , which would not exceed the applicable threshold of 1.0. Because all other modeled residential receptors are located at a greater distance from the Project site and are exposed to lesser concentrations of DPM than the MEIR analyzed herein, and TACs generally dissipate with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than MEIR identified herein. The nearest modeled receptors are illustrated in Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R4 which is located immediately to the west of the Project site at the existing residence at 332 Cowell Avenue. Receptor R4 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 26.51 in one million without mitigation, which would exceed the SJVAPCD significance threshold of 20 in one million. With mitigation, the maximum incremental cancer risk at the MEIR is estimated at 8.04 in one million, which would not exceed the SJVAPCD significance threshold of 20 in one million. At this same location, non-cancer risks were estimated to be 0.04 without mitigation and 0.01 with mitigation, neither of which would exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are located at a greater distance from the Project site and primary truck routes and are exposed to lesser concentrations of DPM than the MEIR analyzed herein, and TACs generally dissipate with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, with mitigation the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated in Exhibit 2-D.

#### Worker Exposure Scenario<sup>3</sup>:

3 SJVAPCD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R6, which represents the adjacent potential worker receptor approximately 116 feet south of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 6.28 in one million without mitigation and 1.99 with mitigation, both of which are less than the SJVAPCD threshold of 20 in one million. Maximum non-cancer risks at this same location were estimated to be  $\leq 0.01$  with and without mitigation, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance and would experience lower concentrations of DPM than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated in Exhibit 2-D.

#### School Child Exposure Scenario:

The nearest school and location of the maximally exposed individual school child (MEISC) is Lincoln Elementary School, located approximately 1,231 feet northwest of the Project site. At the MEISC, the maximum incremental cancer risk impact attributable to the Project is calculated to be 1.29 in one million without mitigation and 0.40 in one million with mitigation, both of which are less than the significance threshold of 20 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be  $\leq 0.01$  with and without mitigation, which would not exceed the applicable significance threshold of 1.0. Because all other modeled school receptors would be exposed to lower concentrations of DPM, all other school receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEISC identified herein.

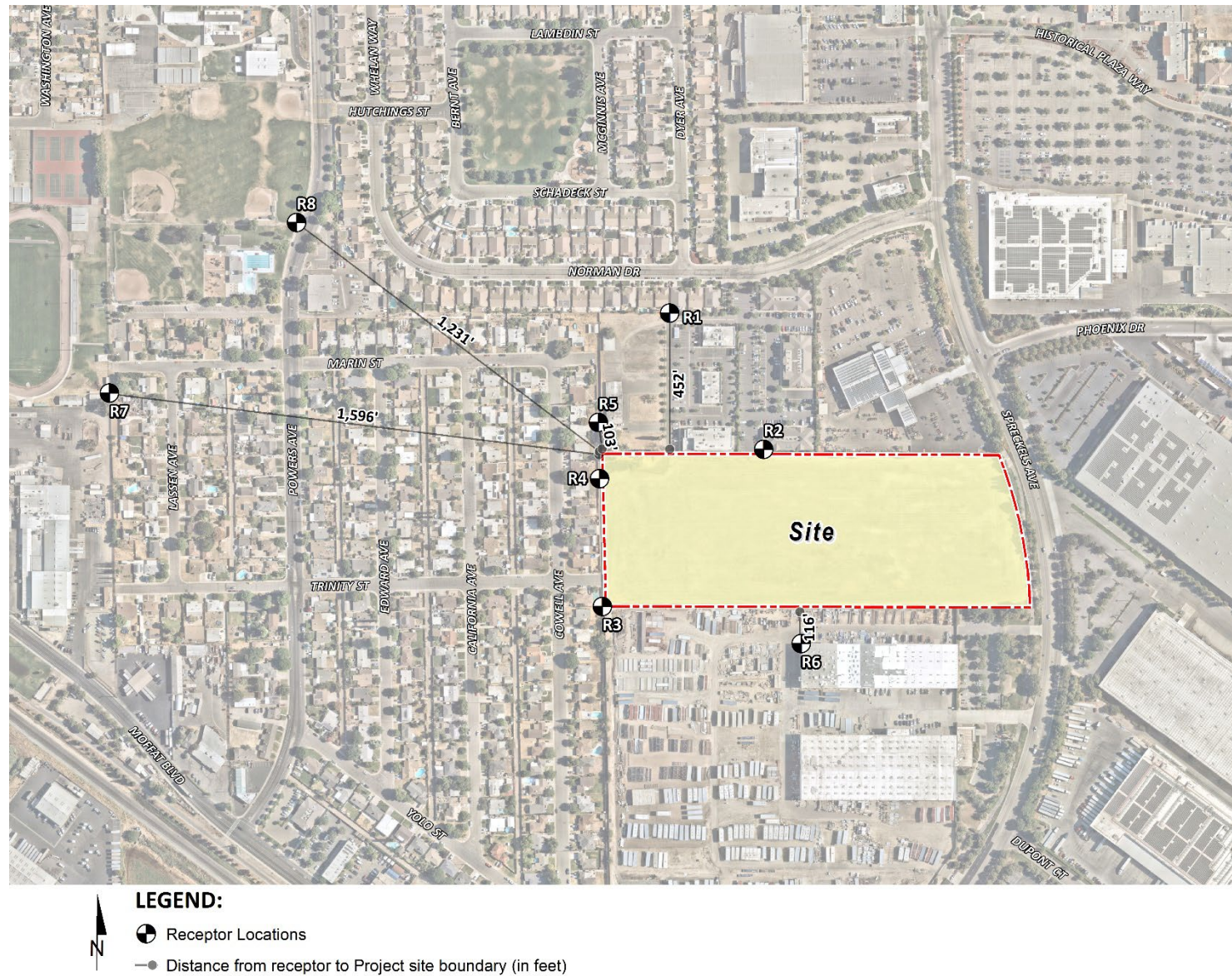
#### **CONSTRUCTION AND OPERATIONAL IMPACTS**

The land use with the greatest potential exposure to Project construction and operational DPM source emissions is Location R4. At the MEIR, the maximum incremental cancer risk attributable to Project construction and operational DPM source emissions is estimated at 23.70 in one million without mitigation, which would exceed the SJVAPCD threshold of 20 in one million. With mitigation, the combined construction and operational cancer risk is reduced to 9.29 in one million, which would not exceed the SJVAPCD threshold of 20 in one million. At this same location, non-cancer risks were estimated to be 0.04 without mitigation and 0.02 with mitigation, neither of which would exceed the applicable threshold of 1.0. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated in Exhibit 2-D.

It should be noted that for clarity purposes, the receptors presented in Exhibit 2-D do not represent all modeled receptors and instead presents the nearest receptors that would experience the highest pollutant concentrations. A total of 119 receptors were modeled in the analysis. Appendix 2.6 presents a figure detailing the locations of all receptors as modeled in AERMOD.



## EXHIBIT 2-D: RECEPTOR LOCATIONS



*This page intentionally left blank*

### 3 CUMULATIVE HEALTH RISKS

#### 3.1 BACKGROUND

The purpose of this section is to provide additional background and analysis of the potential cumulative health risk impacts resulting from any existing and proposed warehouse uses in the vicinity of the proposed Project.

#### 3.2 HEALTH RISK FROM CUMULATIVE CRITERIA POLLUTANTS

SCAQMD and the San Joaquin Valley Unified Air Pollution Control District (SJVAPCD) filed Amicus Curiae Briefs (amicus briefs) in *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502 (*Friant Ranch*) (15) (16). In both amicus briefs, SCAQMD and SJVAPCD provided technical explanations as to why it may not be feasible or reliable for a project to relate the expected adverse air quality impacts to likely health consequences.

As summarized below, for the reasons set forth in the SCAQMD and SJVAPCD amicus briefs, the proposed Project's significant cumulative air quality impacts currently cannot feasibly be related to likely health consequences in an accurate or reliable manner. Although methods are being developed to determine health effects from large regional scale projects, the technical demands to feasibly and accurately relate the adverse air quality impacts to likely health consequences are too high for this Project at this time. The technical challenges are listed below, with the SCAQMD and SJVAPCD amicus briefs providing support on the findings for the Project:

- Ozone is not formed at the location of sources/emissions, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for the proposed Project at this time. "For the so-called criteria pollutants, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NOx) and volatile organic compounds (VOC) in the presence of sunlight... It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources." [SCAQMD brief, p.11]
- The quantity of precursor emissions is not proportional to local ozone and secondary PM concentration, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for the proposed Project at this time. "Ground level ozone (smog) is not directly emitted into the air, but is formed when precursor pollutants such as oxides of nitrogen (NOx) and volatile organic compounds (VOCs) are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight. Once formed, ozone can be transported long distances by wind. Because of the complexity of ozone formation, a specific tonnage amount of NOx or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." [SJVAPCD brief, p.4]
- "Secondary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SOx) and NOx.

Because of the complexity of secondary PM formation, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area.” [SJVAPCD brief, p.5]

- Emissions do not cause health effects – it is the resulting concentration of criteria pollutants, which is influenced by sunlight, complex reactions, and transport, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for this Project at this time. “The disconnect between the tonnage of precursor pollutants (NO<sub>x</sub>, SO<sub>x</sub> and VOCs) and the concentration of ozone or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting ozone or PM.” [SJVAPCD brief, p.5]
- Currently available modeling tools are appropriate for regional evaluations, but not individual projects like the proposed Project. “For instance, the computer models used to simulate and predict an attainment date for the ozone or particulate matter NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NO<sub>x</sub>, SO<sub>x</sub> and VOCs) and the atmospheric chemistry and meteorology of the Valley... the models simulate future ozone or PM levels based on predicted changes in precursor emissions Valley wide... The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the Valley attains the NAAQS. Rather, the Air District’s modeling and planning strategy is regional in nature and based on the extent to which all of the emission-generating sources in the Valley (current and future) must be controlled in order to reach attainment.” [SJVAPCD brief, p.6-7]. “Thus, the CEQA air quality analysis for criteria pollutants is not really a localized, project level impact analysis but one of regional, “cumulative impacts.”” [SJVAPCD brief, p.8] “...the currently available modeling tools are equipped to model the impact of all emission sources in the Valley on attainment... Running the photochemical grid model used for predicting ozone attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO<sub>x</sub> and VOC in the Valley) is not likely to yield valid information given the relative scale involved.” [SJVAPCD brief, p.9-10]
- SJVAPCD indicates that it is currently impossible to accurately correlate project level emissions to specific health impacts. “Finally, even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like ozone and some particulates, it remains impossible, using today’s models, to correlate that increase in concentration to a specific health impact. The reason is the same: such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level.” [SJVAPCD brief, p.10]
- SCAQMD highlights that CARB indicated that a CARB methodology of analysis for PM<sub>2.5</sub> health impacts is not suited for a project such as this one. “Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of PM<sub>2.5</sub>... SCAQMD used the CARB

methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). Again, this project involved large amounts of additional PM<sub>2.5</sub> in the District, up to 2.82 tons/day (5,650 lbs/day of PM<sub>2.5</sub>, or 1,029 tons/year... However, the primary author of the CARB methodology has reported that this PM<sub>2.5</sub> health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties." "Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts." [SCAQMD brief, p.14]. For the proposed Project at buildout, the maximum operational emissions of PM<sub>2.5</sub> are 0.64 tons/year (4). This is 0.06% of the emissions that were used in the CARB methodology.

- The development of new technical approaches in the future may change the feasibility determination. To date, SCAQMD has not developed or approved a method to predict health impacts from criteria pollutants. "Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths." [SCAQMD brief, p.16]

For the reasons set forth above, it is not currently feasible to relate the Project's air quality impacts to likely health consequences. Both SCAQMD and SJVACPD are responsible for assessing ozone and PM impacts regionally, and the potential health consequences from those on a regional basis. The current evaluation on the limitations and uncertainties of existing tools is consistent with SCAQMD and SJVAPCD findings. Currently available regional modeling tools are not designed to capture changes in pollutant concentrations for this Project that would be meaningful. This is due in part to a relatively coarse spatial resolution (e.g., greater than 4-kilometer x 4 kilometer) which makes it speculative to discern local project impacts on air quality.

### **3.3 EXISTING CONDITIONS FOR TOXIC EMISSIONS**

There are no state or federal ambient air quality standards applicable to TAC emissions. Preparing a cumulative assessment for TACs is complicated by the fact that site-specific impacts can be far different from average impacts over a larger geographic area. Impacts from TAC emissions are highest closest to sources of TACs, but the sources are often spread over a large area. For example, emissions from diesel engines, the largest source of risk from TACs, are generated on roads, businesses, and construction sites throughout the air basin. Locations where large numbers of TAC sources are concentrated such as freeways, rail yards, and ports may pose a higher level of risk to sensitive receptors near these facilities. Examination of the risk from TACs at national, state, regional, and local levels is useful for providing context, but site-specific evaluation is ultimately necessary to determine existing conditions for development projects.

### **3.4 AMBIENT TAC IMPACTS PRESUMED TO BE CUMULATIVELY SIGNIFICANT**

CARB has conducted an in-depth periodic analysis of toxic air contaminants and their resulting health risks within the air basin. This study, the California Air Toxics Assessment (CATA), shows

that cancer risk has decreased by approximately 55% between 2012 and 2017 within the San Joaquin Valley Air Basin (17).

CATA is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with San Joaquin Valley Air Basin emissions. Therefore, the CATA study represents the regional baseline health risk in the San Joaquin Valley Air Basin. The available scientific data from CARB shows that although there has been tremendous growth basin-wide, risk levels have declined. The decline in emissions is likely due to existing regulatory requirements that have been implemented over the past 20 years. The CATA estimates that in the localized area (zip code) encompassing the Project site, the risk is approximately 504 incidents per million population.

In its *Guidance for Assessing and Mitigating Air Quality Impacts* (1) SJVAPCD has published guidance on how to address cumulative impacts from air pollution. In this report SJVAPCD states (Page 110):

*“Because impacts from TACs are localized and the thresholds of significance for TACs have been established at such a conservative level, risks over the individual thresholds of significance are also considered cumulatively significant. No other cumulative risk thresholds apply.”*

In many ways, California’s Proposition 65, also called the Safe Drinking Water and Toxic Enforcement Act, which became law in 1986 can serve as a benchmark for cumulative risk assessment. Under Proposition 65, the law defines “no significant cancer risk” as a level of exposure that would cause no more than 1 extra case of cancer in 100,000 people or in other words 10 extra cases of cancer in 1,000,000 people over a 70-year lifetime (the same threshold recommended by SCAQMD). It should be noted that diesel exhaust (DE) or diesel particulate matter (DPM) is listed by the Office of Environmental Health Hazard Assessment (OEHHHA) as a known carcinogen with respect to Proposition 65.

The U.S. EPA rules generally consider a cancer risk of 100 in one million at the community level to be within the acceptable range, and this level is considered by many lead agencies in California as a cumulative cancer risk threshold.<sup>4</sup>

### **3.4 JUSTIFICATION OF A GEOGRAPHIC SCOPE IN RISK ASSESSMENT**

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center.

---

<sup>4</sup> Bay Area Air Quality Management District, Revised Draft Options and Justification Report, California Environmental Quality Act Thresholds of Significance. October 2009, p. 67 (noting that “the 100 in a million excess cancer cases is also consistent with the ambient cancer risk in the most pristine portions of the Bay Area based on the District’s recent regional modeling analysis.”)



The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

Lastly, the Waters Bill (AB 3205) (H&SC Section, 42301.6 through 42301.9) addresses sources of hazardous air pollutants near schools and although not directly applicable to this project, this bill further evidences the propriety of considering hazardous emissions sources within a defined 1,000-foot radius. That is, pursuant to the Waters Bill, prior to approving an application for a permit to construct or modify a source which emits hazardous air emissions (i.e. DPM), which source is located within 1,000 feet from the outer boundary of a school site, the air pollution control officer shall prepare a public notice in which the proposed project or modification for which the application for a permit is made is fully described.

For assessing the cumulative impacts of a new source of TAC emissions associated with a project in combination with existing sources and probable future sources, a project radius is necessary. Assessment of impacts from existing sources within 1,000 feet (zone of influence) of the new source in combination with risks and hazards from the new source is recommended. Then, once the location of the maximally impacted receptor is identified for the project, cumulative impacts from other sources within the radius of the project (i.e., not the receptor) are assessed at that location. Assessments should sum individual hazards or risks to find the cumulative impact at the location of the maximally impacted receptor from the new source.

More recent studies suggest that in light of emission reductions due to tightening emission standards over the past twenty years, this 1,000-foot siting distance is overly conservative. Modeling performed for the 2021 report *Evaluating Siting Distances for New Sensitive Receptors Near Warehouses*, prepared by the Ramboll Group, demonstrates a significant reduction in DPM emissions and risk between year 2000 emissions (which were utilized by CARB in establishing its recommended siting guidance of 1,000 feet) and 2023 (18). This reduction is attributed to a significant reduction in DPM emission rates from trucks and TRUs resulting from the adoption of increasingly stringent emission standards. This reduction in DPM emission rates has resulted in a corresponding significant reduction in risk as well, despite increasingly conservative regulatory guidance in the preparation of HRAs, particularly OEHHA's adoption of age sensitivity factors in their revised HRA guidance released in 2015.

### 3.5 CUMULATIVE TAC IMPACTS

As noted above, SJVAPCD does not currently have a separate methodology or threshold to evaluate a project's contribution to cumulative cancer risk. Instead, "...risks over the individual thresholds of significance are also considered cumulatively significant."

As explained in Section 2.7 above, with implementation of MMs HRA-1 through HRA-3, the Project would not exceed the SJVAPCD project-specific significance threshold of an excess cancer risk of 20 in one million and would therefore not have a cumulatively considerable health risk impact.

It should be noted that because the Project vicinity is considered to be built out, there are no current or approved cumulative developments identified in the Project traffic study. It should be

noted that the stacking of emissions from other projects in the vicinity of the Project site is overly conservative and not appropriate due to the localized nature of impacts from DPM. Nonetheless, in order to conservatively assess the potential cumulative health risk associated with other industrial/warehouse facilities located within 1,000 feet of the proposed Project site and Project truck routes, which is consistent with guidance provided by the Bay Area Air Quality Management District (BAAQMD) (19). The facilities listed in Table 3-1 were identified to be within 1,000 feet of the proposed Project site or Project truck routes. These projects represent a total of approximately 2,145,364 square feet of industrial/warehouse space.

**TABLE 3-1: CUMULATIVE INDUSTRIAL/WAREHOUSE FACILITIES**

| Facility Address      | Facility Size (TSF) |
|-----------------------|---------------------|
| 1260 Phoenix Drive    | 608.500             |
| 600 Spreckels Avenue  | 552.467             |
| 730 Spreckels Avenue  | 350.415             |
| 900 Spreckels Avenue  | 253.560             |
| 1205 Moffat Boulevard | 266.780             |
| 800 Mellon Avenue     | 52.416              |
| 757 Mellon Avenue     | 61.226              |
| Total                 | 2,145.364           |

Based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition ITE 150 rate, a combined 2,145,364 square feet of warehouse could generate approximately 856 daily truck trips. As such, these nearby facilities could generate approximately 856 additional combined daily truck trips that could come along with the Project truck trips. These approximately 856 additional truck trips represent approximately 3.94 times the Project's total truck trip estimate of 217 truck trips. Therefore, it is estimated that these facilities could result in approximately 3.94 times the risk calculated for the Proposed Project, which would result in an additional risk of 31.71 per million. When combined with the proposed Project's estimated risk of 8.04 in one million with mitigation, the combined estimated cumulative cancer risk would be estimated at 39.75 in one million.

The maximum incremental cancer risk shown above for each project represents the risk at the maximally exposed individual receptor for each project, and it should be noted that each of these receptors would be in different locations. As such, the total cumulative cancer risk of 39.75 in one million is highly conservative, and the actual risk contributions from each project would be less than this combined value. Despite this conservative approach, the total cumulative cancer risk from the Project and past, present, and reasonably foreseeable future projects that also contribute to the impact is well below the BAAQMD and EPA's standard cumulative cancer risk threshold of 100 in one million.



*This page intentionally left blank*

## 4 REFERENCES

1. **San Joaquin Valley Air Pollution Control District.** Guidance for Assessing and Mitigating Air Quality Impacts. [Online] 2015. <https://ww2.valleyair.org/media/g4nl3p0g/gamaqi.pdf>.
2. —. Guidance for Air Dispersion Modeling. [Online] 2022. [https://ww2.valleyair.org/media/zlbhrg22/modeling\\_guidance.pdf](https://ww2.valleyair.org/media/zlbhrg22/modeling_guidance.pdf).
3. —. Air Quality Thresholds of Significance-Toxic Air Contaminants. [Online] 2015. <https://ww2.valleyair.org/media/2lpbkso0/2-cms-format-air-quality-thresholds-of-significance-toxic-air-contaminants.pdf>.
4. **Urban Crossroads, Inc.** *Spreckels Distribution Center Air Quality Impact Analysis*. 2024.
5. **California Air Resources Board.** EMFAC 2021. [Online] <https://www.arb.ca.gov/emfac/>.
6. **California Department of Transportation.** EMFAC Software. [Online] <http://www.dot.ca.gov/hq/env/air/pages/emfac.htm>.
7. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective*. 2005.
8. **Wong, Jillian.** *Planning, Rule Development & Area Sources*. December 22, 2016.
9. **Ruettgers & Schuler Civil Engineers.** *Proposed Warehouse 407 Spreckels Avenue Traffic Study*. 2024.
10. **CAPCOA.** *Facility Prioritization Guidelines*. 2016.
11. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] June 2022. [https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod\\_userguide.pdf](https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf).
12. **San Joaquin Valley Air Pollution Control District.** Meteorological Data. [Online] [Cited: February 3, 2024.] <https://ww2.valleyair.org/permitting/air-dispersion-modeling/meteorological-data/>.
13. **Environmental Protection Agency.** User's Guide for the AERMOD Terrain Preprocessor (AERMAP). [Online] 2018. [https://gaftp.epa.gov/Air/aqmg/SCRAM/models/related/aermap/aermap\\_userguide\\_v18081.pdf](https://gaftp.epa.gov/Air/aqmg/SCRAM/models/related/aermap/aermap_userguide_v18081.pdf).
14. **Office of Environmental Health Hazard Assessment.** Toxicity Criteria on Chemicals Evaluated by OEHHA. [Online] <https://oehha.ca.gov/chemicals>.
15. **South Coast Air Quality Management District.** *Brief for the SCAQMD as Amicus Curiae, Sierra Club v. County of Fresno*, 6 Cal.5th 502. 2018.
16. **San Joaquin Valley Unified Air Pollution Control District.** *Brief for the SJVAPCD as Amicus Curiae, Sierra Club v. County of Fresno*, 6 Cal.5th 502. 2018.
17. **California Air Resources Board.** *California Air Toxics Assessment*. 2023.
18. **Ramboll Group.** Evaluating Siting Distances for New Sensitive Receptors Near Warehouses. [Online] 2021. [https://naiope.org/wp-content/uploads/2023/03/Ramboll-Comments-on-A-Region-in-Crisis\\_021323.pdf](https://naiope.org/wp-content/uploads/2023/03/Ramboll-Comments-on-A-Region-in-Crisis_021323.pdf).
19. **Bay Area Air Quality Management District.** *CEQA Air Quality Guidelines Appendix A: Thresholds of Significance Justification*. 2022.

*This page intentionally left blank*

## **5 CERTIFICATIONS**

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Spreckels Distribution Center Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

Haseeb Qureshi  
Associate Principal  
URBAN CROSSROADS, INC.  
(949) 660-1994  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### **EDUCATION**

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June 2006

### **PROFESSIONAL AFFILIATIONS**

AEP – Association of Environmental Professionals  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### **PROFESSIONAL CERTIFICATIONS**

Environmental Site Assessment – American Society for Testing and Materials • June 2013  
Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

*This page intentionally left blank*

## **APPENDIX 2.1:**

### **CALEEMOD OUTPUTS**

# 15639 Spreckels Distribution Center Construction Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
- 3. Construction Emissions Details
  - 3.1. Site Preparation (2025) - Unmitigated
  - 3.3. Grading (2025) - Unmitigated
  - 3.5. Building Construction (2025) - Unmitigated
  - 3.7. Paving (2025) - Unmitigated
  - 3.9. Architectural Coating (2025) - Unmitigated
- 4. Operations Emissions Details
  - 4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation



5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                            |
|-----------------------------|--------------------------------------------------|
| Project Name                | 15639 Spreckels Distribution Center Construction |
| Construction Start Date     | 3/1/2025                                         |
| Lead Agency                 | —                                                |
| Land Use Scale              | Project/site                                     |
| Analysis Level for Defaults | County                                           |
| Windspeed (m/s)             | 3.40                                             |
| Precipitation (days)        | 9.00                                             |
| Location                    | 37.79226630248337, -121.19957343281175           |
| County                      | San Joaquin                                      |
| City                        | Manteca                                          |
| Air District                | San Joaquin Valley APCD                          |
| Air Basin                   | San Joaquin Valley                               |
| TAZ                         | 2132                                             |
| EDFZ                        | 4                                                |
| Electric Utility            | Pacific Gas & Electric Company                   |
| Gas Utility                 | Pacific Gas & Electric                           |
| App Version                 | 2022.1.1.26                                      |

## 1.2. Land Use Types

| Land Use Subtype               | Size | Unit     | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|--------------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Refrigerated Warehouse-No Rail | 289  | 1000sqft | 6.64        | 289,450               | 116,279                | —                              | —          | —           |
| Parking Lot                    | 5.52 | Acre     | 5.52        | 0.00                  | 0.00                   | —                              | —          | —           |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 2.19 | 1.86 | 14.1 | 22.8 | 0.04    | 0.52  | 1.30  | 1.83  | 0.48   | 0.32   | 0.80   | —    | 5,093 | 5,093 | 0.19 | 0.22 | 7.06 | 5,171 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 50.9 | 50.4 | 33.7 | 34.7 | 0.07    | 1.39  | 2.83  | 4.22  | 1.28   | 1.02   | 2.30   | —    | 8,009 | 8,009 | 0.32 | 0.27 | 0.23 | 8,043 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 5.40 | 5.17 | 10.2 | 14.4 | 0.02    | 0.39  | 0.88  | 1.27  | 0.36   | 0.23   | 0.59   | —    | 3,309 | 3,309 | 0.11 | 0.13 | 1.74 | 3,352 |
| Annual (Max)        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.99 | 0.94 | 1.86 | 2.63 | < 0.005 | 0.07  | 0.16  | 0.23  | 0.07   | 0.04   | 0.11   | —    | 548   | 548   | 0.02 | 0.02 | 0.29 | 555   |

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2025                 | 2.19 | 1.86 | 14.1 | 22.8 | 0.04 | 0.52  | 1.30  | 1.83  | 0.48   | 0.32   | 0.80   | —    | 5,093 | 5,093 | 0.19 | 0.22 | 7.06 | 5,171 |

|                      |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |      |      |       |
|----------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2025                 | 50.9 | 50.4 | 33.7 | 34.7 | 0.07    | 1.39 | 2.83 | 4.22 | 1.28 | 1.02 | 2.30 | — | 8,009 | 8,009 | 0.32 | 0.27 | 0.23 | 8,043 |
| Average Daily        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2025                 | 5.40 | 5.17 | 10.2 | 14.4 | 0.02    | 0.39 | 0.88 | 1.27 | 0.36 | 0.23 | 0.59 | — | 3,309 | 3,309 | 0.11 | 0.13 | 1.74 | 3,352 |
| Annual               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2025                 | 0.99 | 0.94 | 1.86 | 2.63 | < 0.005 | 0.07 | 0.16 | 0.23 | 0.07 | 0.04 | 0.11 | — | 548   | 548   | 0.02 | 0.02 | 0.29 | 555   |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 1.04 | 0.88 | 7.67 | 7.42 | 0.01 | 0.55  | —     | 0.55  | 0.51   | —      | 0.51   | —    | 1,046 | 1,046 | 0.04 | 0.01 | —    | 1,050 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.41  | 0.41  | —      | 0.04   | 0.04   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment          | 0.01    | 0.01    | 0.11    | 0.10    | < 0.005 | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | — | 14.3 | 14.3 | < 0.005 | < 0.005 | —       | 14.4 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —       | —    |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment          | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 2.37 | 2.37 | < 0.005 | < 0.005 | —       | 2.38 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —       | —    |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                      | 0.03    | 0.03    | 0.03    | 0.31    | 0.00    | 0.00    | 0.06    | 0.06    | 0.00    | 0.01    | 0.01    | — | 62.7 | 62.7 | < 0.005 | < 0.005 | 0.01    | 63.5 |
| Vendor                      | < 0.005 | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 28.3 | 28.3 | < 0.005 | < 0.005 | < 0.005 | 29.6 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.88 | 0.88 | < 0.005 | < 0.005 | < 0.005 | 0.89 |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.39 | 0.39 | < 0.005 | < 0.005 | < 0.005 | 0.41 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |

|         |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.15 | 0.15 | < 0.005 | < 0.005 | < 0.005 | 0.15 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.06 | 0.06 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.3. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                    | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 4.30 | 3.62 | 33.5 | 29.1 | 0.07    | 1.39  | —     | 1.39  | 1.28   | —      | 1.28   | —    | 7,770 | 7,770 | 0.32 | 0.06    | —    | 7,797 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 2.67  | 2.67  | —      | 0.98   | 0.98   | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.21 | 0.18 | 1.65 | 1.44 | < 0.005 | 0.07  | —     | 0.07  | 0.06   | —      | 0.06   | —    | 383   | 383   | 0.02 | < 0.005 | —    | 385   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —     | 0.13  | 0.13  | —      | 0.05   | 0.05   | —    | —     | —     | —    | —       | —    | —     |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment          | 0.04    | 0.03    | 0.30    | 0.26    | < 0.005 | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | — | 63.4 | 63.4 | < 0.005 | < 0.005 | —       | 63.7 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.02    | 0.02    | —       | 0.01    | 0.01    | — | —    | —    | —       | —       | —       | —    |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                      | 0.06    | 0.06    | 0.06    | 0.62    | 0.00    | 0.00    | 0.13    | 0.13    | 0.00    | 0.03    | 0.03    | — | 125  | 125  | < 0.005 | 0.01    | 0.01    | 127  |
| Vendor                      | 0.01    | < 0.005 | 0.15    | 0.05    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 113  | 113  | < 0.005 | 0.02    | 0.01    | 118  |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 6.34 | 6.34 | < 0.005 | < 0.005 | 0.01    | 6.43 |
| Vendor                      | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.59 | 5.59 | < 0.005 | < 0.005 | 0.01    | 5.84 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                      | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.05 | 1.05 | < 0.005 | < 0.005 | < 0.005 | 1.06 |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.92 | 0.92 | < 0.005 | < 0.005 | < 0.005 | 0.97 |
| Hauling                     | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |



## 3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.58 | 1.32 | 12.4 | 16.1 | 0.03    | 0.51  | —     | 0.51  | 0.47   | —      | 0.47   | —    | 2,921 | 2,921 | 0.12 | 0.02    | —    | 2,931 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.58 | 1.32 | 12.4 | 16.1 | 0.03    | 0.51  | —     | 0.51  | 0.47   | —      | 0.47   | —    | 2,921 | 2,921 | 0.12 | 0.02    | —    | 2,931 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.86 | 0.72 | 6.74 | 8.71 | 0.02    | 0.28  | —     | 0.28  | 0.25   | —      | 0.25   | —    | 1,584 | 1,584 | 0.06 | 0.01    | —    | 1,590 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.16 | 0.13 | 1.23 | 1.59 | < 0.005 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 262   | 262   | 0.01 | < 0.005 | —    | 263   |

|                     |      |         |      |      |         |         |      |      |         |      |      |   |       |       |         |         |      |       |
|---------------------|------|---------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Onsite truck        | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.55 | 0.51    | 0.34 | 6.34 | 0.00    | 0.00    | 1.02 | 1.02 | 0.00    | 0.24 | 0.24 | — | 1,125 | 1,125 | 0.05    | 0.04    | 4.18 | 1,143 |
| Vendor              | 0.06 | 0.03    | 1.30 | 0.44 | 0.01    | 0.01    | 0.28 | 0.30 | 0.01    | 0.08 | 0.09 | — | 1,048 | 1,048 | 0.02    | 0.15    | 2.88 | 1,097 |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.51 | 0.47    | 0.46 | 5.03 | 0.00    | 0.00    | 1.02 | 1.02 | 0.00    | 0.24 | 0.24 | — | 1,016 | 1,016 | 0.03    | 0.04    | 0.11 | 1,030 |
| Vendor              | 0.05 | 0.03    | 1.39 | 0.45 | 0.01    | 0.01    | 0.28 | 0.30 | 0.01    | 0.08 | 0.09 | — | 1,048 | 1,048 | 0.02    | 0.15    | 0.07 | 1,095 |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.28 | 0.25    | 0.21 | 2.80 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13 | 0.13 | — | 565   | 565   | 0.01    | 0.02    | 0.98 | 573   |
| Vendor              | 0.03 | 0.02    | 0.73 | 0.24 | < 0.005 | 0.01    | 0.15 | 0.16 | 0.01    | 0.04 | 0.05 | — | 568   | 568   | 0.01    | 0.08    | 0.67 | 594   |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.05 | 0.05    | 0.04 | 0.51 | 0.00    | 0.00    | 0.10 | 0.10 | 0.00    | 0.02 | 0.02 | — | 93.6  | 93.6  | < 0.005 | < 0.005 | 0.16 | 94.9  |
| Vendor              | 0.01 | < 0.005 | 0.13 | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 94.1  | 94.1  | < 0.005 | 0.01    | 0.11 | 98.4  |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |

### 3.7. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |      |      |      |      |         |      |      |      |         |      |         |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent | 0.95 | 0.80 | 7.45 | 9.98 | 0.01    | 0.35 | —    | 0.35 | 0.32    | —    | 0.32    | — | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,517 |
| Paving              | 0.48 | 0.48 | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent | 0.08 | 0.07 | 0.61 | 0.82 | < 0.005 | 0.03 | —    | 0.03 | 0.03    | —    | 0.03    | — | 124   | 124   | 0.01    | < 0.005 | —    | 125   |
| Paving              | 0.04 | 0.04 | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent | 0.01 | 0.01 | 0.11 | 0.15 | < 0.005 | 0.01 | —    | 0.01 | < 0.005 | —    | < 0.005 | — | 20.6  | 20.6  | < 0.005 | < 0.005 | —    | 20.6  |
| Paving              | 0.01 | 0.01 | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.06    | 0.06    | 0.62    | 0.00    | 0.00    | 0.13    | 0.13    | 0.00    | 0.03    | 0.03    | — | 125  | 125  | < 0.005 | 0.01    | 0.01    | 127  |
| Vendor              | 0.01    | 0.01    | 0.23    | 0.07    | < 0.005 | < 0.005 | 0.05    | 0.05    | < 0.005 | 0.01    | 0.02    | — | 170  | 170  | < 0.005 | 0.03    | 0.01    | 178  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 10.6 | 10.6 | < 0.005 | < 0.005 | 0.02    | 10.7 |
| Vendor              | < 0.005 | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.0 | 14.0 | < 0.005 | < 0.005 | 0.02    | 14.6 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.75 | 1.75 | < 0.005 | < 0.005 | < 0.005 | 1.77 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.31 | 2.31 | < 0.005 | < 0.005 | < 0.005 | 2.42 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.9. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Off-Road Equipment  | 0.21 | 0.17 | 1.18 | 1.52 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 178   | 178  | 0.01 | < 0.005 | — | 179  |

|                        |         |         |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|------------------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Architectural Coating  | 47.0    | 47.0    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily          | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | 0.02    | 0.01    | 0.10 | 0.12 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | —    | 14.7 |
| Architectural Coatings | 3.86    | 3.86    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                 | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment     | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | —    | 2.43 |
| Architectural Coatings | 0.70    | 0.70    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (Max)    | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.10    | 0.09    | 0.09 | 1.01 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 203  | 203  | 0.01    | 0.01    | 0.02 | 206  |
| Vendor                 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|               |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | 0.01    | 0.01    | 0.01    | 0.08 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 17.1 | 17.1 | < 0.005 | < 0.005 | 0.03    | 17.4 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual        | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.83 | 2.83 | < 0.005 | < 0.005 | < 0.005 | 2.88 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Site Preparation      | Site Preparation      | 2/1/2025   | 2/7/2025  | 5.00          | 5.00                | —                 |
| Grading               | Grading               | 2/8/2025   | 3/5/2025  | 5.00          | 18.0                | —                 |
| Building Construction | Building Construction | 3/6/2025   | 12/8/2025 | 5.00          | 198                 | —                 |



|                       |                       |            |           |      |      |   |
|-----------------------|-----------------------|------------|-----------|------|------|---|
| Paving                | Paving                | 10/28/2025 | 12/8/2025 | 5.00 | 30.0 | — |
| Architectural Coating | Architectural Coating | 10/28/2025 | 12/8/2025 | 5.00 | 30.0 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name            | Equipment Type             | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|----------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Site Preparation      | Crawler Tractors           | Diesel    | Average     | 3.00           | 8.00          | 87.0       | 0.43        |
| Grading               | Excavators                 | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Grading               | Graders                    | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading               | Rubber Tired Dozers        | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Grading               | Scrapers                   | Diesel    | Average     | 3.00           | 8.00          | 423        | 0.48        |
| Building Construction | Cranes                     | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.29        |
| Building Construction | Forklifts                  | Diesel    | Average     | 3.00           | 8.00          | 82.0       | 0.20        |
| Building Construction | Generator Sets             | Diesel    | Average     | 1.00           | 8.00          | 14.0       | 0.74        |
| Building Construction | Tractors/Loaders/Back hoes | Diesel    | Average     | 4.00           | 8.00          | 84.0       | 0.37        |
| Building Construction | Welders                    | Diesel    | Average     | 1.00           | 8.00          | 46.0       | 0.45        |
| Paving                | Pavers                     | Diesel    | Average     | 2.00           | 8.00          | 81.0       | 0.42        |
| Paving                | Paving Equipment           | Diesel    | Average     | 2.00           | 8.00          | 89.0       | 0.36        |
| Paving                | Rollers                    | Diesel    | Average     | 2.00           | 8.00          | 36.0       | 0.38        |
| Architectural Coating | Air Compressors            | Diesel    | Average     | 1.00           | 8.00          | 37.0       | 0.48        |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name       | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|------------------|-----------|-----------------------|----------------|-------------|
| Site Preparation | —         | —                     | —              | —           |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Site Preparation      | Worker       | 7.50 | 11.9 | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | 1.00 | 9.10 | HHDT,MHDT     |
| Site Preparation      | Hauling      | 0.00 | 20.0 | HHDT          |
| Site Preparation      | Onsite truck | —    | —    | HHDT          |
| Grading               | —            | —    | —    | —             |
| Grading               | Worker       | 15.0 | 11.9 | LDA,LDT1,LDT2 |
| Grading               | Vendor       | 4.00 | 9.10 | HHDT,MHDT     |
| Grading               | Hauling      | 0.00 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 122  | 11.9 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 37.0 | 9.10 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 15.0 | 11.9 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | 6.00 | 9.10 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 24.3 | 11.9 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | 0.00 | 9.10 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 0.00                                     | 0.00                                     | 434,175                                      | 144,725                                      | 14,427                      |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Site Preparation | —                      | —                      | 7.50                 | 0.00                          | —                   |
| Grading          | —                      | —                      | 72.0                 | 0.00                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                          | 5.52                |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 3                   | 74%            | 74%             |

## 5.7. Construction Paving

| Land Use                       | Area Paved (acres) | % Asphalt |
|--------------------------------|--------------------|-----------|
| Refrigerated Warehouse-No Rail | 0.00               | 0%        |
| Parking Lot                    | 5.52               | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2025 | 0.00         | 204 | 0.03 | < 0.005 |

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 20.4                        | annual days of extreme heat                |
| Extreme Precipitation        | 1.60                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | 0              | 0                 | 0                       | N/A                 |
| Drought                      | 0              | 0                 | 0                       | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Wildfire                | N/A | N/A | N/A | N/A |
| Flooding                | 1   | 1   | 1   | 2   |
| Drought                 | 1   | 1   | 1   | 2   |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1   | 1   | 1   | 2   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 58.2                            |
| AQ-PM               | 55.3                            |
| AQ-DPM              | 81.4                            |
| Drinking Water      | 99.0                            |
| Lead Risk Housing   | 54.1                            |
| Pesticides          | 91.0                            |
| Toxic Releases      | 52.0                            |
| Traffic             | 73.5                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 29.5                            |
| Groundwater         | 39.4                            |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 58.8 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 22.1 |
| Sensitive Population            | —    |
| Asthma                          | 91.0 |
| Cardio-vascular                 | 94.3 |
| Low Birth Weights               | 33.0 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 63.9 |
| Housing                         | 68.1 |
| Linguistic                      | 55.6 |
| Poverty                         | 78.1 |
| Unemployment                    | 76.1 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 28.03798281                     |
| Employed               | 15.32144232                     |
| Median HI              | 45.72051841                     |
| Education              | —                               |
| Bachelor's or higher   | 10.07314256                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 56.79455922                     |
| Transportation         | —                               |
| Auto Access            | 81.29090209                     |
| Active commuting       | 58.95034005                     |

|                                              |             |
|----------------------------------------------|-------------|
| Social                                       | —           |
| 2-parent households                          | 41.93506993 |
| Voting                                       | 53.79186449 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 50.53252919 |
| Park access                                  | 81.35506224 |
| Retail density                               | 58.05209804 |
| Supermarket access                           | 69.85756448 |
| Tree canopy                                  | 69.03631464 |
| Housing                                      | —           |
| Homeownership                                | 50.03208007 |
| Housing habitability                         | 64.35262415 |
| Low-inc homeowner severe housing cost burden | 65.41768254 |
| Low-inc renter severe housing cost burden    | 66.40574875 |
| Uncrowded housing                            | 34.15886052 |
| Health Outcomes                              | —           |
| Insured adults                               | 53.66354421 |
| Arthritis                                    | 12.5        |
| Asthma ER Admissions                         | 4.7         |
| High Blood Pressure                          | 18.2        |
| Cancer (excluding skin)                      | 27.6        |
| Asthma                                       | 21.6        |
| Coronary Heart Disease                       | 15.5        |
| Chronic Obstructive Pulmonary Disease        | 13.3        |
| Diagnosed Diabetes                           | 44.3        |
| Life Expectancy at Birth                     | 16.1        |
| Cognitively Disabled                         | 29.3        |
| Physically Disabled                          | 23.7        |



|                                       |      |
|---------------------------------------|------|
| Heart Attack ER Admissions            | 9.3  |
| Mental Health Not Good                | 31.0 |
| Chronic Kidney Disease                | 35.4 |
| Obesity                               | 23.9 |
| Pedestrian Injuries                   | 74.3 |
| Physical Health Not Good              | 32.6 |
| Stroke                                | 26.0 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 30.9 |
| Current Smoker                        | 20.8 |
| No Leisure Time for Physical Activity | 33.2 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 25.4 |
| Elderly                               | 54.5 |
| English Speaking                      | 58.9 |
| Foreign-born                          | 25.7 |
| Outdoor Workers                       | 31.7 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 37.3 |
| Traffic Density                       | 74.0 |
| Traffic Access                        | 0.0  |
| Other Indices                         | —    |
| Hardship                              | 73.6 |
| Other Decision Support                | —    |
| 2016 Voting                           | 44.3 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 89.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 39.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                            | Justification                                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases | Construction schedule based on data provided by the Project applicant.                                                                   |
| Construction: Off-Road Equipment  | Construction equipment estimated by the Project applicant.                                                                               |
| Construction: Trips and VMT       | Vendor trips apportioned to the site preparation, grading, building construction, and paving phases based on the duration of each phase. |

*This page intentionally left blank*

## **APPENDIX 2.2:**

### **EMFAC EMISSIONS SUMMARY**

| Emissions     | Phase                 | Lb/Day   | # Days | Emissions | Avg/Lb Day  | Avg/Hourly  |
|---------------|-----------------------|----------|--------|-----------|-------------|-------------|
| On-Site       | Site Preparation      | 0.55     | 5      | 2.75      | 0.55        | 0.06875     |
| Exhaust PM-10 | Grading               | 1.39     | 18     | 25.02     | 1.39        | 0.17375     |
|               | Building Construction | 0.51     | 198    | 100.98    | 0.51        | 0.06375     |
|               | Paving                | 0.35     | 30     | 10.5      | 0.35        | 0.04375     |
|               | Architectural Coating | 0.04     | 30     | 1.2       | 0.04        | 0.005       |
|               |                       | 2.84     | 221    | 140.45    | 0.635520362 | 0.079440045 |
| Off-Site      | Site Preparation      | 5.00E-03 | 5      | 0.025     | 0.005       | 0.000625    |
| Exhaust PM-10 | Grading               | 5.00E-03 | 18     | 0.09      | 0.005       | 0.000625    |
|               | Building Construction | 1.00E-02 | 198    | 1.98      | 0.01        | 0.00125     |
|               | Paving                | 5.00E-03 | 30     | 0.15      | 0.005       | 0.000625    |
|               | Architectural Coating | 0.00E+00 | 30     | 0         | 0           | 0           |
|               |                       | 2.50E-02 | 221    | 2.245     | 0.010158371 | 0.001269796 |

| Phase                      | Start Date | End Date  | No. Days |
|----------------------------|------------|-----------|----------|
| Site Preparation           | 2/1/2025   | 2/7/2025  | 5        |
| Grading                    | 2/8/2025   | 3/5/2025  | 18       |
| Building Construction      | 3/6/2025   | 12/8/2025 | 198      |
| Paving                     | 10/28/2025 | 12/8/2025 | 30       |
| Architectural Coating      | 10/28/2025 | 12/8/2025 | 30       |
| Total Days of Construction |            |           | 221      |

Without Mitigation

**AVERAGE EMISSION FACTOR  
SAN JOAQUIN COUNTY 2026**

| Speed | LHD1     | LHD2     | MHD      | HHD     |
|-------|----------|----------|----------|---------|
| 0     | 0.374396 | 0.591438 | 0.057064 | 0.01179 |
| 5     | 0.049163 | 0.061833 | 0.02948  | 0.01198 |
| 25    | 0.022536 | 0.029527 | 0.008108 | 0.00586 |

| Speed | Weighted Average Emissions |
|-------|----------------------------|
| 0     | 0.12421                    |
| 5     | 0.02626                    |
| 25    | 0.01093                    |

## Without Mitigation

| Truck Emission Rates - Without Mitigation                |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |
|----------------------------------------------------------|----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------------------------------|--------------------------------------|
| Source                                                   | Trucks Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | TRU Emissions<br>(grams/day) <sup>d</sup> | Modeled Emission Rates<br>(g/second) |
| On-Site Idling - Loading Docks                           | 108            |                                 |                                                  | 0.1242                                                | 3.37                                              | 146.108                                   | 1.730E-03                            |
| On-Site Idling - Trailer Parking                         | 108            |                                 |                                                  | 0.1242                                                | 1.12                                              | 0.000                                     | 1.300E-05                            |
| On-Site Travel                                           | 217            | 46.88                           | 0.0263                                           |                                                       | 1.23                                              | 6.122                                     | 8.511E-05                            |
| Off-Site Travel - Spreckels Ave. 71.12% Inbound/Outbound | 154            | 67.52                           | 0.0109                                           |                                                       | 0.74                                              | 1.763                                     | 2.895E-05                            |
| Off-Site Travel - Spreckels Ave. 37.93% Inbound/Outbound | 82             | 113.24                          | 0.0109                                           |                                                       | 1.24                                              | 2.957                                     | 4.855E-05                            |
| Off-Site Travel - Mofatt Blvd. 9.27% Inbound/Outbound    | 20             | 22.02                           | 0.0109                                           |                                                       | 0.24                                              | 0.575                                     | 9.441E-06                            |
| Off-Site Travel - Mofatt Blvd. 23.92% Inbound/Outbound   | 52             | 88.10                           | 0.0109                                           |                                                       | 0.96                                              | 2.301                                     | 3.777E-05                            |
| Off-Site Travel - Spreckels Ave. 28.89% Inbound/Outbound | 63             | 25.70                           | 0.0109                                           |                                                       | 0.28                                              | 0.671                                     | 1.102E-05                            |
| Off-Site Travel - Yosemite Ave. 3.40% Inbound/Outbound   | 7              | 7.36                            | 0.0109                                           |                                                       | 0.08                                              | 0.192                                     | 3.156E-06                            |
| Off-Site Travel - Yosemite Ave. 24.22% Inbound/Outbound  | 53             | 22.51                           | 0.0109                                           |                                                       | 0.25                                              | 0.588                                     | 9.651E-06                            |
| Off-Site Travel - Spreckels Ave. 1.27% Inbound/Outbound  | 3              | 0.67                            | 0.0109                                           |                                                       | 0.01                                              | 0.018                                     | 2.880E-07                            |

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes at loading docks and 5 minutes at trailer parking areas.

<sup>d</sup> This column assumes each TRU operates at building loading docks for 2.1 hours.

Without Mitigation

| calendar_y | season_m | sub_area   | vehicle_class | fuel | temperatur | relative_hu | process | speed_tim | pollutant | emission_rate |
|------------|----------|------------|---------------|------|------------|-------------|---------|-----------|-----------|---------------|
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.012298      |
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.006014      |
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  |            |             | IDLEX   |           | PM10      | 0.012106      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.104681      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.047985      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  |            |             | IDLEX   |           | PM10      | 0.797183      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.084104      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.040163      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  |            |             | IDLEX   |           | PM10      | 0.804468      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.032026      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.008809      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  |            |             | IDLEX   |           | PM10      | 0.061994      |



Without Mitigation

Source: EMFAC2021 (v1.0.2) Emissions Inventory  
Region Type: Sub-Area  
Region: San Joaquin (SJV)  
Calendar Year: 2026  
Season: Annual  
Vehicle Classification: EMFAC2007 Categories  
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

| Region     | Calendar | Vehicle C | Model Year   | Speed     | Fuel        | Population |
|------------|----------|-----------|--------------|-----------|-------------|------------|
| San Joaqui | 2026     | HHDT      | Aggregate    | Aggregate | Gasoline    | 0.71685    |
| San Joaqui | 2026     | HHDT      | Aggregate    | Aggregate | Diesel      | 9478.12    |
| San Joaqui | 2026     | HHDT      | Aggregate    | Aggregate | Natural Gas | 254.149    |
| San Joaqui | 2026     | LHDT1     | Aggregate    | Aggregate | Gasoline    | 9286.22    |
| San Joaqui | 2026     | LHDT1     | Aggregate    | Aggregate | Diesel      | 8223.37    |
| San Joaqui | 2026     | LHDT2     | Aggregate    | Aggregate | Gasoline    | 1106.27    |
| San Joaqui | 2026     | LHDT2     | Aggregate    | Aggregate | Diesel      | 3071.34    |
| San Joaqui | 2026     | MHDT      | Aggregate    | Aggregate | Gasoline    | 520.447    |
| San Joaqui | 2026     | MHDT      | Aggregate    | Aggregate | Diesel      | 6024.69    |
| San Joaqui | 2026     | MHDT      | Aggregate    | Aggregate | Natural Gas | 70.0637    |
|            |          |           | HHDT% GAS/NG |           |             | 0.02619    |
|            |          |           | HHDT% DSL    |           |             | 0.97381    |
|            |          |           | LHDT1% GAS   |           |             | 0.53035    |
|            |          |           | LHDT1% DSL   |           |             | 0.46965    |
|            |          |           | LHDT2% GAS   |           |             | 0.26481    |
|            |          |           | LHDT2% DSL   |           |             | 0.73519    |
|            |          |           | MHDT% GAS    |           |             | 0.07952    |
|            |          |           | MHDT% DSL    |           |             | 0.92048    |

**AVERAGE EMISSION FACTOR  
SAN JOAQUIN COUNTY 2026**

| Speed | LHD1     | LHD2     | MHD      | HHD     |
|-------|----------|----------|----------|---------|
| 0     | 0.374396 | 0.591438 | 0.057064 | 0.01179 |
| 5     | 0.049163 | 0.061833 | 0.02948  | 0.01198 |
| 25    | 0.022536 | 0.029527 | 0.008108 | 0.00586 |

| Speed | Weighted Average Emissions |
|-------|----------------------------|
| 0     | 0.12421                    |
| 5     | 0.02626                    |
| 25    | 0.01093                    |

| Truck Emission Rates - With Mitigation                   |                |                                 |                                                  |                                                       |                                                   |                                           |                                      |
|----------------------------------------------------------|----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------------------------------|--------------------------------------|
| Source                                                   | Trucks Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | TRU Emissions<br>(grams/day) <sup>d</sup> | Modeled Emission Rates<br>(g/second) |
| On-Site Idling - Loading Docks                           | 108            |                                 |                                                  | 0.1242                                                | 3.37                                              | 35.420                                    | 4.490E-04                            |
| On-Site Idling - Trailer Parking                         | 108            |                                 |                                                  | 0.1242                                                | 1.12                                              | 0.000                                     | 1.300E-05                            |
| On-Site Travel                                           | 217            | 46.88                           | 0.0263                                           |                                                       | 1.23                                              | 6.122                                     | 8.511E-05                            |
| Off-Site Travel - Spreckels Ave. 71.12% Inbound/Outbound | 154            | 67.52                           | 0.0109                                           |                                                       | 0.74                                              | 1.763                                     | 2.895E-05                            |
| Off-Site Travel - Spreckels Ave. 37.93% Inbound/Outbound | 82             | 113.24                          | 0.0109                                           |                                                       | 1.24                                              | 2.957                                     | 4.855E-05                            |
| Off-Site Travel - Mofatt Blvd. 9.27% Inbound/Outbound    | 20             | 22.02                           | 0.0109                                           |                                                       | 0.24                                              | 0.575                                     | 9.441E-06                            |
| Off-Site Travel - Mofatt Blvd. 23.92% Inbound/Outbound   | 52             | 88.10                           | 0.0109                                           |                                                       | 0.96                                              | 2.301                                     | 3.777E-05                            |
| Off-Site Travel - Spreckels Ave. 28.89% Inbound/Outbound | 63             | 25.70                           | 0.0109                                           |                                                       | 0.28                                              | 0.671                                     | 1.102E-05                            |
| Off-Site Travel - Yosemite Ave. 3.40% Inbound/Outbound   | 7              | 7.36                            | 0.0109                                           |                                                       | 0.08                                              | 0.192                                     | 3.156E-06                            |
| Off-Site Travel - Yosemite Ave. 24.22% Inbound/Outbound  | 53             | 22.51                           | 0.0109                                           |                                                       | 0.25                                              | 0.588                                     | 9.651E-06                            |
| Off-Site Travel - Spreckels Ave. 1.27% Inbound/Outbound  | 3              | 0.67                            | 0.0109                                           |                                                       | 0.01                                              | 0.018                                     | 2.880E-07                            |

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes at loading docks and 5 minutes at trailer parking areas.

<sup>d</sup> This column assumes each TRU operates at building loading docks for 30 minutes.

With Mitigation

| calendar_y | season_m | sub_area   | vehicle_class | fuel | temperatur | relative_hu | process | speed_tim | pollutant | emission_rate |
|------------|----------|------------|---------------|------|------------|-------------|---------|-----------|-----------|---------------|
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.012298      |
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.006014      |
| 2026       | Annual   | San Joaqui | HHDT          | Dsl  |            |             | IDLEX   |           | PM10      | 0.012106      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.104681      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.047985      |
| 2026       | Annual   | San Joaqui | LHDT1         | Dsl  |            |             | IDLEX   |           | PM10      | 0.797183      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.084104      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.040163      |
| 2026       | Annual   | San Joaqui | LHDT2         | Dsl  |            |             | IDLEX   |           | PM10      | 0.804468      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  | 60         | 70          | RUNEX   | 5         | PM10      | 0.032026      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  | 60         | 70          | RUNEX   | 25        | PM10      | 0.008809      |
| 2026       | Annual   | San Joaqui | MHDT          | Dsl  |            |             | IDLEX   |           | PM10      | 0.061994      |

With Mitigation

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Joaquin (SJV)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

| Region    | Calendar ` | Vehicle C | Model Ye  | Speed     | Fuel      | Population |
|-----------|------------|-----------|-----------|-----------|-----------|------------|
| San Joaql | 2026       | HHDT      | Aggregate | Aggregate | Gasoline  | 0.71685    |
| San Joaql | 2026       | HHDT      | Aggregate | Aggregate | Diesel    | 9478.12    |
| San Joaql | 2026       | HHDT      | Aggregate | Aggregate | Natural G | 254.149    |
| San Joaql | 2026       | LHDT1     | Aggregate | Aggregate | Gasoline  | 9286.22    |
| San Joaql | 2026       | LHDT1     | Aggregate | Aggregate | Diesel    | 8223.37    |
| San Joaql | 2026       | LHDT2     | Aggregate | Aggregate | Gasoline  | 1106.27    |
| San Joaql | 2026       | LHDT2     | Aggregate | Aggregate | Diesel    | 3071.34    |
| San Joaql | 2026       | MHDT      | Aggregate | Aggregate | Gasoline  | 520.447    |
| San Joaql | 2026       | MHDT      | Aggregate | Aggregate | Diesel    | 6024.69    |
| San Joaql | 2026       | MHDT      | Aggregate | Aggregate | Natural G | 70.0637    |

|              |         |
|--------------|---------|
| HHDT% GAS/NG | 0.02619 |
| HHDT% DSL    | 0.97381 |
| LHDT1% GAS   | 0.53035 |
| LHDT1% DSL   | 0.46965 |
| LHDT2% GAS   | 0.26481 |
| LHDT2% DSL   | 0.73519 |
| MHDT% GAS    | 0.07952 |
| MHDT% DSL    | 0.92048 |

*This page intentionally left blank*

## **APPENDIX 2.3:**

### **AERMOD MODEL INPUT/OUTPUT – CONSTRUCTION**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 8/29/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Construction HRA\15639
Construction HRA.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 62651 Manteca
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "15639 Construction HRA.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION VOL1      VOLUME      658411.906   4184253.420      13.210
  LOCATION VOL2      VOLUME      658546.520   4184257.346      13.150
  LOCATION VOL3      VOLUME      658679.379   4184260.593      13.490
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0001599916
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 15
** 658776.790, 4184194.840, 12.96, 3.49, 6.51
** 658767.861, 4184256.263, 12.95, 3.49, 6.51
** 658750.814, 4184324.992, 13.05, 3.49, 6.51
** 658735.661, 4184359.628, 12.90, 3.49, 6.51
** 658707.249, 4184417.263, 12.75, 3.49, 6.51
** 658685.602, 4184467.051, 12.76, 3.49, 6.51
** 658669.367, 4184514.404, 12.73, 3.49, 6.51
** 658658.273, 4184575.016, 12.49, 3.49, 6.51
** 658656.108, 4184623.451, 12.44, 3.49, 6.51
** 658644.743, 4184799.333, 12.73, 3.49, 6.51
** 658639.602, 4184873.203, 13.12, 3.49, 6.51
** 658873.661, 4184879.427, 12.79, 3.49, 6.51
** 659059.284, 4184880.780, 13.12, 3.49, 6.51
** 659323.648, 4184892.145, 13.48, 3.49, 6.51
** 659354.225, 4184892.686, 13.70, 3.49, 6.51

```



\*\*

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000001 | VOLUME | 658775.783 | 4184201.767 | 12.96 |
| LOCATION | L0000002 | VOLUME | 658773.769 | 4184215.621 | 12.96 |
| LOCATION | L0000003 | VOLUME | 658771.755 | 4184229.476 | 12.95 |
| LOCATION | L0000004 | VOLUME | 658769.741 | 4184243.330 | 12.94 |
| LOCATION | L0000005 | VOLUME | 658767.637 | 4184257.167 | 12.93 |
| LOCATION | L0000006 | VOLUME | 658764.266 | 4184270.755 | 12.97 |
| LOCATION | L0000007 | VOLUME | 658760.896 | 4184284.343 | 13.01 |
| LOCATION | L0000008 | VOLUME | 658757.526 | 4184297.931 | 13.05 |
| LOCATION | L0000009 | VOLUME | 658754.155 | 4184311.520 | 13.07 |
| LOCATION | L0000010 | VOLUME | 658750.766 | 4184325.102 | 13.05 |
| LOCATION | L0000011 | VOLUME | 658745.155 | 4184337.928 | 12.94 |
| LOCATION | L0000012 | VOLUME | 658739.543 | 4184350.754 | 12.91 |
| LOCATION | L0000013 | VOLUME | 658733.753 | 4184363.497 | 12.91 |
| LOCATION | L0000014 | VOLUME | 658727.563 | 4184376.054 | 12.89 |
| LOCATION | L0000015 | VOLUME | 658721.373 | 4184388.612 | 12.80 |
| LOCATION | L0000016 | VOLUME | 658715.183 | 4184401.169 | 12.66 |
| LOCATION | L0000017 | VOLUME | 658708.993 | 4184413.726 | 12.72 |
| LOCATION | L0000018 | VOLUME | 658703.239 | 4184426.485 | 12.73 |
| LOCATION | L0000019 | VOLUME | 658697.657 | 4184439.324 | 12.75 |
| LOCATION | L0000020 | VOLUME | 658692.075 | 4184452.163 | 12.73 |
| LOCATION | L0000021 | VOLUME | 658686.493 | 4184465.002 | 12.77 |
| LOCATION | L0000022 | VOLUME | 658681.786 | 4184478.181 | 12.83 |
| LOCATION | L0000023 | VOLUME | 658677.246 | 4184491.424 | 12.86 |
| LOCATION | L0000024 | VOLUME | 658672.705 | 4184504.668 | 12.82 |
| LOCATION | L0000025 | VOLUME | 658668.699 | 4184518.051 | 12.75 |
| LOCATION | L0000026 | VOLUME | 658666.179 | 4184531.822 | 12.64 |
| LOCATION | L0000027 | VOLUME | 658663.658 | 4184545.593 | 12.51 |
| LOCATION | L0000028 | VOLUME | 658661.137 | 4184559.364 | 12.44 |
| LOCATION | L0000029 | VOLUME | 658658.617 | 4184573.136 | 12.45 |
| LOCATION | L0000030 | VOLUME | 658657.733 | 4184587.092 | 12.47 |
| LOCATION | L0000031 | VOLUME | 658657.108 | 4184601.078 | 12.46 |
| LOCATION | L0000032 | VOLUME | 658656.483 | 4184615.064 | 12.45 |
| LOCATION | L0000033 | VOLUME | 658655.747 | 4184629.044 | 12.44 |
| LOCATION | L0000034 | VOLUME | 658654.844 | 4184643.015 | 12.44 |
| LOCATION | L0000035 | VOLUME | 658653.941 | 4184656.986 | 12.39 |
| LOCATION | L0000036 | VOLUME | 658653.038 | 4184670.957 | 12.32 |
| LOCATION | L0000037 | VOLUME | 658652.136 | 4184684.928 | 12.29 |
| LOCATION | L0000038 | VOLUME | 658651.233 | 4184698.899 | 12.29 |
| LOCATION | L0000039 | VOLUME | 658650.330 | 4184712.869 | 12.33 |
| LOCATION | L0000040 | VOLUME | 658649.427 | 4184726.840 | 12.42 |
| LOCATION | L0000041 | VOLUME | 658648.525 | 4184740.811 | 12.52 |
| LOCATION | L0000042 | VOLUME | 658647.622 | 4184754.782 | 12.60 |
| LOCATION | L0000043 | VOLUME | 658646.719 | 4184768.753 | 12.69 |
| LOCATION | L0000044 | VOLUME | 658645.817 | 4184782.724 | 12.71 |
| LOCATION | L0000045 | VOLUME | 658644.914 | 4184796.695 | 12.72 |
| LOCATION | L0000046 | VOLUME | 658643.955 | 4184810.662 | 12.81 |
| LOCATION | L0000047 | VOLUME | 658642.983 | 4184824.628 | 12.92 |
| LOCATION | L0000048 | VOLUME | 658642.011 | 4184838.594 | 13.02 |
| LOCATION | L0000049 | VOLUME | 658641.039 | 4184852.560 | 13.10 |
| LOCATION | L0000050 | VOLUME | 658640.067 | 4184866.527 | 13.13 |
| LOCATION | L0000051 | VOLUME | 658646.907 | 4184873.398 | 13.11 |
| LOCATION | L0000052 | VOLUME | 658660.902 | 4184873.770 | 13.11 |
| LOCATION | L0000053 | VOLUME | 658674.897 | 4184874.142 | 13.14 |
| LOCATION | L0000054 | VOLUME | 658688.892 | 4184874.514 | 13.14 |
| LOCATION | L0000055 | VOLUME | 658702.887 | 4184874.886 | 13.10 |
| LOCATION | L0000056 | VOLUME | 658716.882 | 4184875.258 | 13.08 |
| LOCATION | L0000057 | VOLUME | 658730.877 | 4184875.630 | 13.07 |
| LOCATION | L0000058 | VOLUME | 658744.872 | 4184876.003 | 13.07 |
| LOCATION | L0000059 | VOLUME | 658758.867 | 4184876.375 | 13.07 |
| LOCATION | L0000060 | VOLUME | 658772.862 | 4184876.747 | 13.06 |
| LOCATION | L0000061 | VOLUME | 658786.857 | 4184877.119 | 13.02 |
| LOCATION | L0000062 | VOLUME | 658800.852 | 4184877.491 | 12.95 |
| LOCATION | L0000063 | VOLUME | 658814.847 | 4184877.863 | 12.88 |
| LOCATION | L0000064 | VOLUME | 658828.842 | 4184878.235 | 12.79 |
| LOCATION | L0000065 | VOLUME | 658842.837 | 4184878.607 | 12.79 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000066 | VOLUME | 658856.832 | 4184878.980 | 12.80 |
| LOCATION | L0000067 | VOLUME | 658870.827 | 4184879.352 | 12.82 |
| LOCATION | L0000068 | VOLUME | 658884.826 | 4184879.508 | 12.87 |
| LOCATION | L0000069 | VOLUME | 658898.826 | 4184879.610 | 12.97 |
| LOCATION | L0000070 | VOLUME | 658912.825 | 4184879.712 | 13.03 |
| LOCATION | L0000071 | VOLUME | 658926.825 | 4184879.814 | 13.08 |
| LOCATION | L0000072 | VOLUME | 658940.825 | 4184879.917 | 13.08 |
| LOCATION | L0000073 | VOLUME | 658954.824 | 4184880.019 | 13.08 |
| LOCATION | L0000074 | VOLUME | 658968.824 | 4184880.121 | 13.08 |
| LOCATION | L0000075 | VOLUME | 658982.824 | 4184880.223 | 13.10 |
| LOCATION | L0000076 | VOLUME | 658996.823 | 4184880.325 | 13.14 |
| LOCATION | L0000077 | VOLUME | 659010.823 | 4184880.427 | 13.14 |
| LOCATION | L0000078 | VOLUME | 659024.822 | 4184880.529 | 13.12 |
| LOCATION | L0000079 | VOLUME | 659038.822 | 4184880.631 | 13.11 |
| LOCATION | L0000080 | VOLUME | 659052.822 | 4184880.733 | 13.12 |
| LOCATION | L0000081 | VOLUME | 659066.815 | 4184881.104 | 13.18 |
| LOCATION | L0000082 | VOLUME | 659080.802 | 4184881.705 | 13.22 |
| LOCATION | L0000083 | VOLUME | 659094.789 | 4184882.306 | 13.25 |
| LOCATION | L0000084 | VOLUME | 659108.776 | 4184882.908 | 13.30 |
| LOCATION | L0000085 | VOLUME | 659122.763 | 4184883.509 | 13.36 |
| LOCATION | L0000086 | VOLUME | 659136.750 | 4184884.110 | 13.42 |
| LOCATION | L0000087 | VOLUME | 659150.737 | 4184884.711 | 13.47 |
| LOCATION | L0000088 | VOLUME | 659164.724 | 4184885.313 | 13.50 |
| LOCATION | L0000089 | VOLUME | 659178.711 | 4184885.914 | 13.48 |
| LOCATION | L0000090 | VOLUME | 659192.698 | 4184886.515 | 13.38 |
| LOCATION | L0000091 | VOLUME | 659206.685 | 4184887.117 | 13.51 |
| LOCATION | L0000092 | VOLUME | 659220.672 | 4184887.718 | 13.75 |
| LOCATION | L0000093 | VOLUME | 659234.660 | 4184888.319 | 14.31 |
| LOCATION | L0000094 | VOLUME | 659248.647 | 4184888.920 | 14.72 |
| LOCATION | L0000095 | VOLUME | 659262.634 | 4184889.522 | 14.42 |
| LOCATION | L0000096 | VOLUME | 659276.621 | 4184890.123 | 14.02 |
| LOCATION | L0000097 | VOLUME | 659290.608 | 4184890.724 | 13.51 |
| LOCATION | L0000098 | VOLUME | 659304.595 | 4184891.326 | 13.43 |
| LOCATION | L0000099 | VOLUME | 659318.582 | 4184891.927 | 13.53 |
| LOCATION | L0000100 | VOLUME | 659332.576 | 4184892.303 | 13.59 |
| LOCATION | L0000101 | VOLUME | 659346.574 | 4184892.550 | 13.64 |

\*\* End of LINE VOLUME Source ID = SLINE1

\*\* Source Parameters \*\*

|          |      |              |       |        |       |
|----------|------|--------------|-------|--------|-------|
| SRCPARAM | VOL1 | 0.0033364258 | 5.000 | 33.540 | 1.400 |
| SRCPARAM | VOL2 | 0.0033364258 | 5.000 | 33.540 | 1.400 |
| SRCPARAM | VOL3 | 0.0033364258 | 5.000 | 33.540 | 1.400 |

\*\* LINE VOLUME Source ID = SLINE1

|          |          |             |      |      |      |
|----------|----------|-------------|------|------|------|
| SRCPARAM | L0000001 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000002 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000003 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000004 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000005 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000006 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000007 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000008 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000009 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000010 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000011 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000012 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000013 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000014 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000015 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000016 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000017 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000018 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000019 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000020 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000021 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000022 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000023 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000024 | 0.000001584 | 3.49 | 6.51 | 3.25 |

[illegible]

|          |          |             |      |      |      |
|----------|----------|-------------|------|------|------|
| SRCPARAM | L0000091 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000092 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000093 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000094 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000095 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000096 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000097 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000098 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000099 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000100 | 0.000001584 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000101 | 0.000001584 | 3.49 | 6.51 | 3.25 |

\*\* -----  
 URBANSRC ALL  
  
 \*\* Variable Emissions Type: "By Hour / Day (HRDOW)"  
 \*\* Variable Emission Scenario: "Scenario 1"  
 \*\* WeekDays:  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0  
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Saturday:  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Sunday:  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* WeekDays:  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0  
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Saturday:  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Sunday:  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* WeekDays:  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0  
   EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Saturday:  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* Sunday:  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
 \*\* WeekDays:  
   EMISFACT L0000001       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0  
   EMISFACT L0000001       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0  
   EMISFACT L0000001       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0  
   EMISFACT L0000001       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



|          |          |       |     |     |     |     |     |     |
|----------|----------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT | L0000098 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000099 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000099 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000099 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000099 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000100 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000100 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000100 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000100 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000101 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000101 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000101 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT | L0000101 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

EMISFACT L0000096      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000096      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000097      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000098      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000099      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000100      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000101      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED "15639 Construction HRA.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE modesto-city-23258\Modesto_18-22.SFC
    PROFFILE modesto-city-23258\Modesto_18-22.PFL
    SURFDATA 23258 2018
    UAIRDATA 23230 2018 OAKLAND/WSO_AP
    PROFBASE 30.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "15639 CONSTRUCTION HRA.AD\PE00GALL.PLT" 31
    SUMMFILE "15639 Construction HRA.sum"
OU FINISHED

```

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

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

```

A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of          0 Informational Message(s)

```

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1562 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1562 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 104 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 62651.0 ; Urban Roughness Length = 1.000 m

- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* 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: DPM

\*\*Model Calculates PERIOD Averages Only

\*\*This Run Includes: 104 Source(s); 1 Source Group(s); and 80 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 104 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 21112



\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
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) = 30.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15639 Construction

HRA.err

\*\*File for Summary of Results: 15639 Construction

HRA.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:37:27

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE    | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |    |
|-----------|--------|-------------|----------|-----------|----------|----------|----------|----------|----|
|           | URBAN  | EMISSION    | RATE     | AIRCRAFT  |          |          |          |          |    |
|           | PART.  | (GRAMS/SEC) |          | X         | Y        | ELEV.    | HEIGHT   | SY       | SZ |
| SOURCE    | SCALAR | VARY        |          |           |          |          |          |          |    |
| ID        | CATS.  |             |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |    |
| (METERS)  |        | BY          |          |           |          |          |          |          |    |
| VOL1      | 0      | 0.33364E-02 | 658411.9 | 4184253.4 | 13.2     | 5.00     | 33.54    | 1.40     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| VOL2      | 0      | 0.33364E-02 | 658546.5 | 4184257.3 | 13.2     | 5.00     | 33.54    | 1.40     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| VOL3      | 0      | 0.33364E-02 | 658679.4 | 4184260.6 | 13.5     | 5.00     | 33.54    | 1.40     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000001  | 0      | 0.15840E-05 | 658775.8 | 4184201.8 | 13.0     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000002  | 0      | 0.15840E-05 | 658773.8 | 4184215.6 | 13.0     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000003  | 0      | 0.15840E-05 | 658771.8 | 4184229.5 | 13.0     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000004  | 0      | 0.15840E-05 | 658769.7 | 4184243.3 | 12.9     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000005  | 0      | 0.15840E-05 | 658767.6 | 4184257.2 | 12.9     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |
| L0000006  | 0      | 0.15840E-05 | 658764.3 | 4184270.8 | 13.0     | 3.49     | 6.51     | 3.25     |    |
| YES HRDOW |        | NO          |          |           |          |          |          |          |    |

```
FF *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***          08/29/24
*** AERMET - VERSION 21112 ***
***                                     ***
```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE    | NUMBER      | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |
|-----------|-------------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE    | URBAN       | EMISSION    | RATE     | AIRCRAFT  |          |          |          |          |
| ID        | PART.       | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | SY       | SZ       |
| (METERS)  | SCALAR VARY |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|           | CATS.       | BY          |          |           |          |          |          |          |
| L0000038  | 0           | 0.15840E-05 | 658651.2 | 4184698.9 | 12.3     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000039  | 0           | 0.15840E-05 | 658650.3 | 4184712.9 | 12.3     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000040  | 0           | 0.15840E-05 | 658649.4 | 4184726.8 | 12.4     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000041  | 0           | 0.15840E-05 | 658648.5 | 4184740.8 | 12.5     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000042  | 0           | 0.15840E-05 | 658647.6 | 4184754.8 | 12.6     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000043  | 0           | 0.15840E-05 | 658646.7 | 4184768.8 | 12.7     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000044  | 0           | 0.15840E-05 | 658645.8 | 4184782.7 | 12.7     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000045  | 0           | 0.15840E-05 | 658644.9 | 4184796.7 | 12.7     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000046  | 0           | 0.15840E-05 | 658644.0 | 4184810.7 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000047  | 0           | 0.15840E-05 | 658643.0 | 4184824.6 | 12.9     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000048  | 0           | 0.15840E-05 | 658642.0 | 4184838.6 | 13.0     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000049  | 0           | 0.15840E-05 | 658641.0 | 4184852.6 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000050  | 0           | 0.15840E-05 | 658640.1 | 4184866.5 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000051  | 0           | 0.15840E-05 | 658646.9 | 4184873.4 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000052  | 0           | 0.15840E-05 | 658660.9 | 4184873.8 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000053  | 0           | 0.15840E-05 | 658674.9 | 4184874.1 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000054  | 0           | 0.15840E-05 | 658688.9 | 4184874.5 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000055  | 0           | 0.15840E-05 | 658702.9 | 4184874.9 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000056  | 0           | 0.15840E-05 | 658716.9 | 4184875.3 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000057  | 0           | 0.15840E-05 | 658730.9 | 4184875.6 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000058  | 0           | 0.15840E-05 | 658744.9 | 4184876.0 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000059  | 0           | 0.15840E-05 | 658758.9 | 4184876.4 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000060  | 0           | 0.15840E-05 | 658772.9 | 4184876.7 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000061  | 0           | 0.15840E-05 | 658786.9 | 4184877.1 | 13.0     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |
| L0000062  | 0           | 0.15840E-05 | 658800.9 | 4184877.5 | 13.0     | 3.49     | 6.51     | 3.25     |
| YES HRDOW |             | NO          |          |           |          |          |          |          |

|          |       |             |          |           |      |      |      |      |
|----------|-------|-------------|----------|-----------|------|------|------|------|
| L0000063 | 0     | 0.15840E-05 | 658814.8 | 4184877.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000064 | 0     | 0.15840E-05 | 658828.8 | 4184878.2 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000065 | 0     | 0.15840E-05 | 658842.8 | 4184878.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000066 | 0     | 0.15840E-05 | 658856.8 | 4184879.0 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000067 | 0     | 0.15840E-05 | 658870.8 | 4184879.4 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000068 | 0     | 0.15840E-05 | 658884.8 | 4184879.5 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000069 | 0     | 0.15840E-05 | 658898.8 | 4184879.6 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000070 | 0     | 0.15840E-05 | 658912.8 | 4184879.7 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000071 | 0     | 0.15840E-05 | 658926.8 | 4184879.8 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000072 | 0     | 0.15840E-05 | 658940.8 | 4184879.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000073 | 0     | 0.15840E-05 | 658954.8 | 4184880.0 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000074 | 0     | 0.15840E-05 | 658968.8 | 4184880.1 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000075 | 0     | 0.15840E-05 | 658982.8 | 4184880.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000076 | 0     | 0.15840E-05 | 658996.8 | 4184880.3 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |
| L0000077 | 0     | 0.15840E-05 | 659010.8 | 4184880.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      | HRDOW | NO          |          |           |      |      |      |      |

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* \*\*\* 09:37:27

PAGE 4  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

| *** VOLUME SOURCE DATA *** |       |             |             |           |          |          |          |          |
|----------------------------|-------|-------------|-------------|-----------|----------|----------|----------|----------|
| SOURCE                     |       | NUMBER      | EMISSION    | RATE      |          | BASE     | RELEASE  | INIT.    |
| SOURCE                     |       | URBAN       | EMISSION    | RATE      |          | AIRCRAFT |          | INIT.    |
| ID                         |       | PART.       | (GRAMS/SEC) | X         | Y        | ELEV.    | HEIGHT   | SY       |
| (METERS)                   |       | SCALAR VARY |             |           |          | (METERS) | (METERS) | SZ       |
|                            |       | CATS.       | BY          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
| -----                      |       |             |             |           |          |          |          |          |
| L0000078                   | 0     | 0.15840E-05 | 659024.8    | 4184880.5 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000079                   | 0     | 0.15840E-05 | 659038.8    | 4184880.6 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000080                   | 0     | 0.15840E-05 | 659052.8    | 4184880.7 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000081                   | 0     | 0.15840E-05 | 659066.8    | 4184881.1 | 13.2     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000082                   | 0     | 0.15840E-05 | 659080.8    | 4184881.7 | 13.2     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000083                   | 0     | 0.15840E-05 | 659094.8    | 4184882.3 | 13.2     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000084                   | 0     | 0.15840E-05 | 659108.8    | 4184882.9 | 13.3     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |
| L0000085                   | 0     | 0.15840E-05 | 659122.8    | 4184883.5 | 13.4     | 3.49     | 6.51     | 3.25     |
| YES                        | HRDOW | NO          |             |           |          |          |          |          |

```
FF *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***          08/29/24
*** AERMET - VERSION 21112 ***
***                                     ***
```

PAGE 5

\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ   U\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |            |            |            |            |            |            |  |
|----------|------------|------------|------------|------------|------------|------------|--|
| ALL      | VOL1       | VOL2       | VOL3       | L0000001   | L0000002   | L0000003   |  |
| L0000004 | , L0000005 | ,          |            |            |            |            |  |
|          | L0000006   | , L0000007 | , L0000008 | , L0000009 | , L0000010 | , L0000011 |  |
|          | L0000012   | , L0000013 | ,          |            |            |            |  |
|          | L0000014   | , L0000015 | , L0000016 | , L0000017 | , L0000018 | , L0000019 |  |
|          | L0000020   | , L0000021 | ,          |            |            |            |  |
|          | L0000022   | , L0000023 | , L0000024 | , L0000025 | , L0000026 | , L0000027 |  |
|          | L0000028   | , L0000029 | ,          |            |            |            |  |
|          | L0000030   | , L0000031 | , L0000032 | , L0000033 | , L0000034 | , L0000035 |  |
|          | L0000036   | , L0000037 | ,          |            |            |            |  |
|          | L0000038   | , L0000039 | , L0000040 | , L0000041 | , L0000042 | , L0000043 |  |
|          | L0000044   | , L0000045 | ,          |            |            |            |  |
|          | L0000046   | , L0000047 | , L0000048 | , L0000049 | , L0000050 | , L0000051 |  |

```

L0000052      , L0000053      ,
L0000054      , L0000055      , L0000056      , L0000057      , L0000058      , L0000059      ,
L0000060      , L0000061      ,
L0000062      , L0000063      , L0000064      , L0000065      , L0000066      , L0000067      ,
L0000068      , L0000069      ,
L0000070      , L0000071      , L0000072      , L0000073      , L0000074      , L0000075      ,
L0000076      , L0000077      ,
L0000078      , L0000079      , L0000080      , L0000081      , L0000082      , L0000083      ,
L0000084      , L0000085      ,
L0000086      , L0000087      , L0000088      , L0000089      , L0000090      , L0000091      ,
L0000092      , L0000093      ,
L0000094      , L0000095      , L0000096      , L0000097      , L0000098      , L0000099      ,
L0000100      , L0000101      ,

```

```

FF *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***

```

09:37:27

PAGE 6

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP                                                                  | SOURCE IDs |
|----------|----------------------------------------------------------------------------|------------|
| -----    | -----                                                                      | -----      |
| L0000005 | 62651. VOL1 , VOL2 , VOL3 , L0000001 , L0000002 ,<br>L0000003 , L0000004 , |            |
| L0000006 | L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,                     |            |
| L0000012 | L0000013 ,                                                                 |            |
| L0000014 | L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,                     |            |
| L0000020 | L0000021 ,                                                                 |            |
| L0000022 | L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,                     |            |
| L0000028 | L0000029 ,                                                                 |            |
| L0000030 | L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,                     |            |
| L0000036 | L0000037 ,                                                                 |            |
| L0000038 | L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,                     |            |
| L0000044 | L0000045 ,                                                                 |            |
| L0000046 | L0000047 , L0000048 , L0000049 , L0000050 , L0000051 ,                     |            |
| L0000052 | L0000053 ,                                                                 |            |
| L0000054 | L0000055 , L0000056 , L0000057 , L0000058 , L0000059 ,                     |            |
| L0000060 | L0000061 ,                                                                 |            |
| L0000062 | L0000063 , L0000064 , L0000065 , L0000066 , L0000067 ,                     |            |
| L0000068 | L0000069 ,                                                                 |            |
| L0000070 | L0000071 , L0000072 , L0000073 , L0000074 , L0000075 ,                     |            |
| L0000076 | L0000077 ,                                                                 |            |
| L0000078 | L0000079 , L0000080 , L0000081 , L0000082 , L0000083 ,                     |            |

L0000084 , L0000085 ,  
L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 ,  
L0000092 , L0000093 ,  
L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 ,  
L0000100 , L0000101 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* \*\*\* 09:37:27

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* \*\*\* 09:37:27

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

+00 4 .00000E+00

08/29/24

\* \* \*

09:37:27

PAGE 9

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

+00 4 .00000E+00

08/29/24

\* \* \*

09:37:27

PAGE 10

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

| SOURCE ID = L00000001 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        | :    |        |      |        |
|-----------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR                  | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| SCALAR                | HOUR   | SCALAR | HOUR   | SCALAR                 |        |      |        |      |        |      |        |



```

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***

```

09:37:27

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

```

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***

```

09:37:27

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000003 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

-----  
-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000004 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

-----  
-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000005 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000006 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

```
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 16
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000007 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 17
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
```

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 18

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000009 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 19

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



\*\*\*

\*\*\*

09:37:27

PAGE 21

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = L0000013 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|   |           |   |           |   |           |   |           |   |           |   |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|

```
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SATURDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SUNDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

```
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SATURDAY



```
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 25
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 26
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000017 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
```

```

                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                09:37:27

                                PAGE 27
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000018 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                09:37:27

                                PAGE 28
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000019 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000021 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000022 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |

```
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```
                                PAGE 32
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000023      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```
                                PAGE 33
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000024      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 34

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000025 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 35

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000026 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

```
SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
DAY OF WEEK = WEEKDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```
PAGE 36
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000027 ; SOURCE TYPE = VOLUME :
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
DAY OF WEEK = WEEKDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000028 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000029 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |



.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000030 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |   |           |   |           |   |
|-----------|-----------|-----------|-----------|-----------|-----------|---|-----------|---|-----------|---|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |   |           |   |           |   |

```

  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
PR *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 41
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```

SOURCE ID = L0000032      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  - - - - -
                                DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14
.1000E+01  15 .1000E+01  16 .1000E+01
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
PR *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 42
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```

SOURCE ID = L0000033      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  - - - - -
                                DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
```

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 43

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000034 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000035 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000037 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000038 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

```
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

```
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |

```

                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18  .0000E+00 19  .0000E+00 20  .0000E+00 21  .0000E+00 22
.0000E+00 23  .0000E+00 24  .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18  .0000E+00 19  .0000E+00 20  .0000E+00 21  .0000E+00 22
.0000E+00 23  .0000E+00 24  .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
09:37:27

```

```

                                PAGE 50
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18  .0000E+00 19  .0000E+00 20  .0000E+00 21  .0000E+00 22
.0000E+00 23  .0000E+00 24  .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18  .0000E+00 19  .0000E+00 20  .0000E+00 21  .0000E+00 22
.0000E+00 23  .0000E+00 24  .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18  .0000E+00 19  .0000E+00 20  .0000E+00 21  .0000E+00 22
.0000E+00 23  .0000E+00 24  .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
09:37:27

```

```

                                PAGE 51
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000042 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----

```

```

- - - - -
                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
                                09:37:27

                                PAGE 52
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000043 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
                                09:37:27

                                PAGE 53
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

```



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

-----

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |

.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

09:37:27

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

09:37:27

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |

```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                ***
                                09:37:27

                                PAGE 57
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000048 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                ***
                                09:37:27

```

```

                                PAGE 58
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000049 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

```

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000050 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 60

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000051 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL | SCALAR | HOURL | SCALAR | HOURL |
|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |        |       |        |       |        |       |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:37:27

PAGE 61

\*\*\* MODELOPTs:      RegDFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000052      ; SOURCE TYPE = VOLUME      :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL | SCALAR | HOURL | SCALAR | HOURL |
|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |        |       |        |       |        |       |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:37:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

-----

-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000054 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

-----

-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |   |           |   |           |   |
|-----------|-----------|-----------|-----------|-----------|-----------|---|-----------|---|-----------|---|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |   |           |   |           |   |

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000055 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

-----  
-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

-----  
-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|   |           |   |           |   |           |   |           |   |           |   |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|

```
.0000E+00      7 .0000E+00      8 .0000E+00
9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
.0000E+00     15 .0000E+00     16 .0000E+00
17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
.0000E+00     23 .0000E+00     24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
.0000E+00      7 .0000E+00      8 .0000E+00
9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
.0000E+00     15 .0000E+00     16 .0000E+00
17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
.0000E+00     23 .0000E+00     24 .0000E+00
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      08/29/24
*** AERMET - VERSION 21112 ***
***                                     ***      09:37:27
```

```
PAGE 66
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000057      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
.0000E+00      7 .0000E+00      8 .0000E+00
9 .1000E+01     10 .1000E+01     11 .1000E+01     12 .1000E+01     13 .1000E+01     14
.1000E+01     15 .1000E+01     16 .1000E+01
17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
.0000E+00     23 .0000E+00     24 .0000E+00
                                DAY OF WEEK = SATURDAY
1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
.0000E+00      7 .0000E+00      8 .0000E+00
9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
.0000E+00     15 .0000E+00     16 .0000E+00
17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
.0000E+00     23 .0000E+00     24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6
.0000E+00      7 .0000E+00      8 .0000E+00
9 .0000E+00     10 .0000E+00     11 .0000E+00     12 .0000E+00     13 .0000E+00     14
.0000E+00     15 .0000E+00     16 .0000E+00
17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21 .0000E+00     22
.0000E+00     23 .0000E+00     24 .0000E+00
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      08/29/24
*** AERMET - VERSION 21112 ***
***                                     ***      09:37:27
```

```
PAGE 67
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000058      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
```



|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 68

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000059 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |  |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |  |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |  |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 69

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 70

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\*

09:37:27

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000063 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

| SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR |
|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| 1      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |           |        |
| 9      | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     |
| 15     | .1000E+01 | 16     | .1000E+01 |        |           |        |           |        |           |        |
| 17     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |           |        |

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 74

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000065 ; SOURCE TYPE = VOLUME :

| SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR | SCALAR    | SCALAR |
|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| 1      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |           |        |
| 9      | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     |
| 15     | .1000E+01 | 16     | .1000E+01 |        |           |        |           |        |           |        |
| 17     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
|    | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

+00 4 .00000E+00

08/29/24

\* \* \*

09:37:27

\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ   U\*

SOURCE ID = L0000066 ; SOURCE TYPE = VOLUME :

-----

DAY OF WEEK = WEEKDAY

+00 4 .00000E+00

+01 12 1000E+01

```

F01      12      .10000E+01

```

000      00      00000-00

+00 20 .00000E+00

DAY OF WEEK = SATURDAY

+00 4 0000E+00

$\frac{0.99}{1} = 0.99$

1.00 12 0000E1.00

```

+00      12      .00000E+00

```

```
+00      20      .00000E+00
```

DAY OF WEEK = SUNDAY

```
+00      4      .00000E+00
```

+00 12 0000E+00

0.000000E+00

1.00 20 000000 1.00

+00      20      .00000E+00

08/29/24

\* \* \*

09:37:27

\*\*\* MODELOPTs:    ReqDFAULT    CONC    ELEV    URBAN    ADJ   U\*

SOURCE ID = L0000067 ; SOURCE TYPE = VOLUME :

SCALAR    HOUR    SCALAR    HOUR    SCALAR

```

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***

```

09:37:27

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

```

SOURCE ID = L0000068 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***

```

09:37:27

PAGE 78

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000069 ; SOURCE TYPE = VOLUME :

| 1      | 2      | 3      | 4      | 5      | 6      |
|--------|--------|--------|--------|--------|--------|
| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |

-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 79

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000070 ; SOURCE TYPE = VOLUME :

| 1      | 2      | 3      | 4      | 5      | 6      |
|--------|--------|--------|--------|--------|--------|
| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |

-----

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000071 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14



```
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 82
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000073 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
*** 09:37:27
```

```
PAGE 83
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000074 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
```

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 84

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000075 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 85

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



\*\*\*

\*\*\*

09:37:27

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = L0000078 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = L0000079 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|   |           |   |           |   |           |   |           |   |           |   |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|

```
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SATURDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SUNDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

```
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

```
1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
.0000E+00    7 .0000E+00    8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
```

DAY OF WEEK = SATURDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 91
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 92
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000083 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
-----
```

```

                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                09:37:27

                                PAGE 93
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .1000E+01 10  .1000E+01 11  .1000E+01 12  .1000E+01 13  .1000E+01 14
.1000E+01 15  .1000E+01 16  .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
1  .0000E+00  2  .0000E+00  3  .0000E+00  4  .0000E+00  5  .0000E+00  6
.0000E+00  7  .0000E+00  8  .0000E+00
9  .0000E+00 10  .0000E+00 11  .0000E+00 12  .0000E+00 13  .0000E+00 14
.0000E+00 15  .0000E+00 16  .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***
                                09:37:27

                                PAGE 94
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 95

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000086 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |  |
| .1000E+01 |           | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|           |           |    |           |    |           |    |           |    |           |    |  |
|-----------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1         | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
| .0000E+00 |           | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9         | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
| .0000E+00 |           | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17        | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
| .0000E+00 |           | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000087 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000088 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |

```
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```
                                PAGE 98
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000089 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```
                                PAGE 99
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```
SOURCE ID = L0000090 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
 1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6
.0000E+00  7 .0000E+00  8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 100

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000091 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

PAGE 101

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

| SCALAR                 | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR |
|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|------|
| DAY OF WEEK = WEEKDAY  |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     |      |
|                        | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |
| DAY OF WEEK = SATURDAY |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |      |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |
| DAY OF WEEK = SUNDAY   |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |      |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      08/29/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:37:27

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000093 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |        |      |        |      |        |      |

| SCALAR                 | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR |
|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|------|
| DAY OF WEEK = WEEKDAY  |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .1000E+01 | 10     | .1000E+01 | 11     | .1000E+01 | 12     | .1000E+01 | 13     | .1000E+01 | 14     |      |
|                        | .1000E+01 | 15     | .1000E+01 | 16     | .1000E+01 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |
| DAY OF WEEK = SATURDAY |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |      |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |
| DAY OF WEEK = SUNDAY   |           |        |           |        |           |        |           |        |           |        |      |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |      |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |      |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |      |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |      |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |      |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      08/29/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:37:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000094 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 |
| 13 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 |
| 13 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 |
| 13 | .0000E+00 | 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 |
| 13 | .0000E+00 | 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:37:27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000095 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 |
| 13 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 |
| 13 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 |
| 13 | .0000E+00 | 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| 7  | .0000E+00 | 8  | .0000E+00 | 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 |
| 13 | .0000E+00 | 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 |
| 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 | .0000E+00 | 23 | .0000E+00 | 24 |

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000096 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:37:27

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000097 ; SOURCE TYPE = VOLUME :

| HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR | HOURL  | SCALAR |

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |   |           |   |           |   |
|-----------|-----------|-----------|-----------|-----------|-----------|---|-----------|---|-----------|---|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |   |           |   |           |   |

```

  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
PR *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 107
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```

SOURCE ID = L0000098      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  - - - - -
                                DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14
.1000E+01  15 .1000E+01  16 .1000E+01
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14
.0000E+00  15 .0000E+00  16 .0000E+00
17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22
.0000E+00  23 .0000E+00  24 .0000E+00
PR *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      08/29/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:37:27
```

```

                                PAGE 108
*** MODELOPTs:  RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
```

```

SOURCE ID = L0000098      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  - - - - -
                                DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
```

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 109

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 110

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



SOURCE ID = L0000101 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 |
| .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SATURDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

DAY OF WEEK = SUNDAY

|           |           |           |           |           |           |    |           |    |           |    |
|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|----|-----------|----|
| 1         | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |
| .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |    |           |    |           |    |
| 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |
| .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |    |           |    |           |    |
| 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |
| .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:37:27

PAGE 111

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 658334.4, 4184219.3, | 12.7, | 12.7, | 0.0); | ( 658333.0, |
| 4184239.1,             | 12.8, | 12.8, | 0.0); |             |
| ( 658332.8, 4184256.8, | 12.8, | 12.8, | 0.0); | ( 658331.1, |
| 4184275.4,             | 12.8, | 12.8, | 0.0); |             |
| ( 658330.6, 4184293.6, | 12.8, | 12.8, | 0.0); | ( 658330.1, |
| 4184311.5,             | 12.9, | 12.9, | 0.0); |             |
| ( 658329.1, 4184328.9, | 13.0, | 13.0, | 0.0); | ( 658328.8, |
| 4184346.9,             | 13.0, | 13.0, | 0.0); |             |
| ( 658327.3, 4184364.9, | 13.0, | 13.0, | 0.0); | ( 658326.6, |
| 4184384.6,             | 13.1, | 13.1, | 0.0); |             |
| ( 658325.7, 4184400.5, | 13.1, | 13.1, | 0.0); | ( 658351.9, |
| 4184356.4,             | 13.2, | 13.2, | 0.0); |             |
| ( 658411.4, 4184331.2, | 13.1, | 13.1, | 0.0); | ( 658460.9, |
| 4184332.6,             | 13.1, | 13.1, | 0.0); |             |
| ( 658489.4, 4184334.4, | 13.0, | 13.0, | 0.0); | ( 658538.9, |
| 4184336.4,             | 13.1, | 13.1, | 0.0); |             |
| ( 658634.0, 4184363.1, | 13.2, | 13.2, | 0.0); | ( 658575.2, |
| 4184376.2,             | 13.0, | 13.0, | 0.0); |             |
| ( 658792.3, 4184311.5, | 13.5, | 13.5, | 0.0); | ( 658328.2, |
| 4184428.2,             | 13.1, | 13.1, | 0.0); |             |
| ( 658324.6, 4184463.8, | 12.7, | 12.7, | 0.0); | ( 658340.1, |
| 4184463.9,             | 12.7, | 12.7, | 0.0); |             |
| ( 658356.9, 4184464.5, | 12.7, | 12.7, | 0.0); | ( 658372.2, |
| 4184464.6,             | 12.6, | 12.6, | 0.0); |             |
| ( 658385.9, 4184464.8, | 12.6, | 12.6, | 0.0); | ( 658404.0, |
| 4184465.2,             | 12.5, | 12.5, | 0.0); |             |
| ( 658420.2, 4184465.1, | 12.5, | 12.5, | 0.0); | ( 658435.7, |

```

PR *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 08/29/24
*** AERMET - VERSION 21112 ***
***
***

```

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* 09:37:27

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Met

Upper air station no.: 23230  
Name:  
Year: 2018

| YR   | MO | DY | JDY  | HR  | H0    | U*   | W*    | DT/DZ  | ZICNV  | ZIMCH | M-O  | LEN  | Z0   | BOWEN | ALBEDO | REF  | WS |
|------|----|----|------|-----|-------|------|-------|--------|--------|-------|------|------|------|-------|--------|------|----|
| WD   |    |    | HT   | REF | TA    | HT   |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 01    | -9.5 | 0.126 | -9.000 | -9.000 | -999. | 107. | 19.2 | 0.03 | 0.99  | 1.00   | 2.04 |    |
| 314. |    |    | 10.0 |     | 281.4 | 2.0  |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 02    | -6.6 | 0.104 | -9.000 | -9.000 | -999. | 81.  | 15.7 | 0.03 | 0.99  | 1.00   | 1.71 |    |
| 321. |    |    | 10.0 |     | 281.4 | 2.0  |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 03    | -9.9 | 0.131 | -9.000 | -9.000 | -999. | 114. | 20.7 | 0.04 | 0.99  | 1.00   | 1.96 |    |
| 346. |    |    | 10.0 |     | 281.4 | 2.0  |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 04    | -4.1 | 0.084 | -9.000 | -9.000 | -999. | 58.  | 13.1 | 0.04 | 0.99  | 1.00   | 1.26 |    |
| 331. |    |    | 10.0 |     | 280.4 | 2.0  |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 05    | -1.9 | 0.061 | -9.000 | -9.000 | -999. | 36.  | 11.0 | 0.02 | 0.99  | 1.00   | 0.86 |    |
| 247. |    |    | 10.0 |     | 278.8 | 2.0  |       |        |        |       |      |      |      |       |        |      |    |
| 18   | 01 | 01 |      | 1   | 06    | -1.6 | 0.060 | -9.000 | -9.000 | -999. | 35.  | 12.1 | 0.02 | 0.99  | 1.00   | 0.74 |    |



| MICROGRAMS/M**3 |             |         | **          |         |
|-----------------|-------------|---------|-------------|---------|
| X-COORD (M)     | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD |
| (M)             | CONC        |         |             |         |
| 658334.38       | 4184219.32  | 0.02275 | 658333.00   |         |
| 4184239.07      | 0.02898     |         |             |         |
| 658332.77       | 4184256.75  | 0.03440 | 658331.12   |         |
| 4184275.37      | 0.03594     |         |             |         |
| 658330.55       | 4184293.56  | 0.03493 | 658330.13   |         |
| 4184311.47      | 0.03174     |         |             |         |
| 658329.14       | 4184328.95  | 0.02748 | 658328.75   |         |
| 4184346.90      | 0.02335     |         |             |         |
| 658327.32       | 4184364.94  | 0.01950 | 658326.61   |         |
| 4184384.60      | 0.01620     |         |             |         |
| 658325.69       | 4184400.50  | 0.01402 | 658351.91   |         |
| 4184356.45      | 0.02505     |         |             |         |
| 658411.42       | 4184331.21  | 0.04438 | 658460.92   |         |
| 4184332.62      | 0.04024     |         |             |         |
| 658489.41       | 4184334.45  | 0.04346 | 658538.91   |         |
| 4184336.42      | 0.04621     |         |             |         |
| 658633.98       | 4184363.12  | 0.02617 | 658575.23   |         |
| 4184376.20      | 0.02257     |         |             |         |
| 658792.31       | 4184311.46  | 0.01152 | 658328.23   |         |
| 4184428.16      | 0.01125     |         |             |         |
| 658324.56       | 4184463.84  | 0.00856 | 658340.07   |         |
| 4184463.88      | 0.00881     |         |             |         |
| 658356.85       | 4184464.48  | 0.00900 | 658372.20   |         |
| 4184464.60      | 0.00915     |         |             |         |
| 658385.86       | 4184464.84  | 0.00925 | 658403.96   |         |
| 4184465.20      | 0.00934     |         |             |         |
| 658420.15       | 4184465.08  | 0.00942 | 658435.73   |         |
| 4184466.40      | 0.00935     |         |             |         |
| 658336.30       | 4184188.36  | 0.01519 | 658338.79   |         |
| 4184166.96      | 0.01194     |         |             |         |
| 658339.45       | 4184149.70  | 0.00963 | 658338.62   |         |
| 4184131.78      | 0.00767     |         |             |         |
| 658339.62       | 4184114.19  | 0.00644 | 658339.45   |         |
| 4184096.93      | 0.00545     |         |             |         |
| 658528.90       | 4184142.67  | 0.05372 | 658609.95   |         |
| 4184144.35      | 0.06176     |         |             |         |
| 658681.53       | 4184145.79  | 0.05825 | 658822.70   |         |
| 4184109.99      | 0.02594     |         |             |         |
| 658341.04       | 4184077.32  | 0.00466 | 658342.17   |         |
| 4184057.42      | 0.00401     |         |             |         |
| 658342.45       | 4184040.64  | 0.00355 | 658343.44   |         |
| 4184024.27      | 0.00319     |         |             |         |
| 658344.00       | 4184004.66  | 0.00281 | 658345.03   |         |
| 4183986.32      | 0.00252     |         |             |         |
| 658345.54       | 4183969.09  | 0.00228 | 658347.07   |         |
| 4183948.81      | 0.00206     |         |             |         |
| 658348.08       | 4183931.79  | 0.00189 | 658348.70   |         |
| 4183912.73      | 0.00172     |         |             |         |
| 658349.41       | 4183895.60  | 0.00159 | 658350.33   |         |
| 4183876.24      | 0.00145     |         |             |         |
| 658705.37       | 4184490.63  | 0.00453 | 658356.00   |         |
| 4183814.13      | 0.00114     |         |             |         |
| 658783.42       | 4183907.96  | 0.01098 | 658844.96   |         |
| 4184011.43      | 0.01605     |         |             |         |
| 657852.76       | 4184359.55  | 0.00084 | 658013.70   |         |
| 4184464.19      | 0.00209     |         |             |         |
| 658356.21       | 4183852.60  | 0.00135 | 658487.87   |         |
| 4183854.81      | 0.00300     |         |             |         |
| 658621.29       | 4183854.81  | 0.00607 | 659353.96   |         |
| 4184491.93      | 0.00041     |         |             |         |

|            |            |         |           |
|------------|------------|---------|-----------|
| 658618.84  | 4184754.20 | 0.00159 | 658624.83 |
| 4184647.10 | 0.00226    |         |           |
| 658624.08  | 4184601.04 | 0.00275 | 658684.37 |
| 4184796.51 | 0.00155    |         |           |
| 658912.05  | 4184704.77 | 0.00077 | 659090.68 |
| 4184904.74 | 0.00091    |         |           |
| 658921.04  | 4184927.95 | 0.00067 | 658586.26 |
| 4184908.48 | 0.00087    |         |           |
| 658405.01  | 4184892.00 | 0.00098 | 658487.02 |
| 4184918.97 | 0.00082    |         |           |
| 658581.39  | 4184983.00 | 0.00062 | 658428.60 |
| 4184853.43 | 0.00109    |         |           |
| 658445.08  | 4184517.53 | 0.00626 | 658435.72 |
| 4184690.54 | 0.00219    |         |           |
| 659317.34  | 4184800.77 | 0.00058 | 659331.28 |
| 4184657.35 | 0.00040    |         |           |
| 658029.00  | 4184541.67 | 0.00220 | 657824.73 |
| 4184529.27 | 0.00107    |         |           |
| 658007.60  | 4184688.03 | 0.00168 | 657931.24 |
| 4184676.97 | 0.00142    |         |           |

```

*** AERMOD - VERSION 23132 ***
Spreckels\15639 Ops HRA\1 ***
*** AERMET - VERSION 21112 ***
***
*** C:\Users\Michael Tirohn\Desktop\HRAs\15639
08/29/24
***
09:37:27

```

PAGE 115

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

# NETWORK

| GROUP ID | OF TYPE               | GRID-ID      | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, |
|----------|-----------------------|--------------|--------------|---------------------------------|
| ALL      | 1ST HIGHEST VALUE IS  | 0.06176 AT ( | 658609.95,   | 4184144.35,                     |
| 13.35,   | 0.00) DC              |              |              | 13.35,                          |
|          | 2ND HIGHEST VALUE IS  | 0.05825 AT ( | 658681.53,   | 4184145.79,                     |
|          | 13.27, 0.00) DC       |              |              | 13.27,                          |
|          | 3RD HIGHEST VALUE IS  | 0.05372 AT ( | 658528.90,   | 4184142.67,                     |
|          | 13.15, 0.00) DC       |              |              | 13.15,                          |
|          | 4TH HIGHEST VALUE IS  | 0.04621 AT ( | 658538.91,   | 4184336.42,                     |
|          | 13.07, 0.00) DC       |              |              | 13.07,                          |
|          | 5TH HIGHEST VALUE IS  | 0.04438 AT ( | 658411.42,   | 4184331.21,                     |
|          | 13.12, 0.00) DC       |              |              | 13.12,                          |
|          | 6TH HIGHEST VALUE IS  | 0.04346 AT ( | 658489.41,   | 4184334.45,                     |
|          | 13.04, 0.00) DC       |              |              | 13.04,                          |
|          | 7TH HIGHEST VALUE IS  | 0.04024 AT ( | 658460.92,   | 4184332.62,                     |
|          | 13.11, 0.00) DC       |              |              | 13.11,                          |
|          | 8TH HIGHEST VALUE IS  | 0.03594 AT ( | 658331.12,   | 4184275.37,                     |
|          | 12.78, 0.00) DC       |              |              | 12.78,                          |
|          | 9TH HIGHEST VALUE IS  | 0.03493 AT ( | 658330.55,   | 4184293.56,                     |
|          | 12.84, 0.00) DC       |              |              | 12.84,                          |
|          | 10TH HIGHEST VALUE IS | 0.03440 AT ( | 658332.77,   | 4184256.75,                     |
|          | 12.76, 0.00) DC       |              |              | 12.76,                          |

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR

DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 08/29/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\*

09:37:27

PAGE 116

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 2753 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 1713 Calm Hours Identified  
  
A Total of 1040 Missing Hours Identified ( 2.37 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1562 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1562 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

*This page intentionally left blank*



## **APPENDIX 2.4:**

### **AERMOD MODEL INPUT/OUTPUT – OPERATIONS**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/20/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\15639 Ops HRA.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 62651 Manteca
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "15639 Ops HRA.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION IDLE1      POINT      658435.183  4184223.485      13.280
** DESCRSRC Truck Idle
  LOCATION IDLE2      POINT      658439.215  4184223.703      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE3      POINT      658443.027  4184223.749      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE4      POINT      658447.022  4184223.886      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE5      POINT      658451.109  4184223.932      13.310
** DESCRSRC Truck Idle
  LOCATION IDLE6      POINT      658458.885  4184224.125      13.310
** DESCRSRC Truck Idle
  LOCATION IDLE7      POINT      658462.918  4184224.343      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE8      POINT      658466.729  4184224.389      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE9      POINT      658470.724  4184224.527      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE10     POINT      658474.811  4184224.573      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE11     POINT      658478.753  4184224.759      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE12     POINT      658482.748  4184224.851      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE13     POINT      658506.326  4184225.373      13.270
** DESCRSRC Truck Idle
  LOCATION IDLE14     POINT      658510.268  4184225.559      13.250
** DESCRSRC Truck Idle
  LOCATION IDLE15     POINT      658514.263  4184225.651      13.240
** DESCRSRC Truck Idle

```

|             |            |       |            |             |        |
|-------------|------------|-------|------------|-------------|--------|
| LOCATION    | IDLE16     | POINT | 658490.400 | 4184224.926 | 13.290 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE17     | POINT | 658494.432 | 4184225.144 | 13.290 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE18     | POINT | 658498.244 | 4184225.189 | 13.280 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE19     | POINT | 658502.239 | 4184225.327 | 13.280 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE20     | POINT | 658538.103 | 4184226.246 | 13.190 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE21     | POINT | 658542.045 | 4184226.432 | 13.180 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE22     | POINT | 658546.040 | 4184226.524 | 13.170 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE23     | POINT | 658522.177 | 4184225.798 | 13.220 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE24     | POINT | 658526.209 | 4184226.016 | 13.210 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE25     | POINT | 658530.021 | 4184226.062 | 13.200 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE26     | POINT | 658534.016 | 4184226.200 | 13.200 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE27     | POINT | 658569.559 | 4184227.026 | 13.200 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE28     | POINT | 658573.500 | 4184227.212 | 13.200 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE29     | POINT | 658577.495 | 4184227.304 | 13.210 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE30     | POINT | 658553.633 | 4184226.579 | 13.170 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE31     | POINT | 658557.665 | 4184226.797 | 13.180 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE32     | POINT | 658561.477 | 4184226.843 | 13.180 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE33     | POINT | 658565.472 | 4184226.980 | 13.190 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE34     | POINT | 658601.336 | 4184227.945 | 13.250 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE35     | POINT | 658605.277 | 4184228.131 | 13.250 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE36     | POINT | 658609.272 | 4184228.223 | 13.250 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE37     | POINT | 658585.410 | 4184227.497 | 13.220 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE38     | POINT | 658589.442 | 4184227.715 | 13.230 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE39     | POINT | 658593.254 | 4184227.761 | 13.240 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE40     | POINT | 658597.249 | 4184227.899 | 13.240 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE41     | POINT | 658632.975 | 4184228.725 | 13.290 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE42     | POINT | 658636.917 | 4184228.911 | 13.300 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE43     | POINT | 658617.049 | 4184228.278 | 13.260 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE44     | POINT | 658621.081 | 4184228.496 | 13.270 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE45     | POINT | 658624.893 | 4184228.542 | 13.270 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | IDLE46     | POINT | 658628.888 | 4184228.679 | 13.280 |
| ** DESCRSRC | Truck Idle |       |            |             |        |
| LOCATION    | TRU1       | POINT | 658435.103 | 4184226.251 | 13.290 |
| ** DESCRSRC | TRU        |       |            |             |        |
| LOCATION    | TRU2       | POINT | 658439.083 | 4184226.213 | 13.290 |
| ** DESCRSRC | TRU        |       |            |             |        |

|    |          |       |       |            |             |        |
|----|----------|-------|-------|------------|-------------|--------|
| ** | LOCATION | TRU3  | POINT | 658442.987 | 4184226.331 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU4  | POINT | 658446.852 | 4184226.409 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU5  | POINT | 658450.833 | 4184226.526 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU6  | POINT | 658458.774 | 4184226.822 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU7  | POINT | 658462.754 | 4184226.784 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU8  | POINT | 658466.658 | 4184226.901 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU9  | POINT | 658470.523 | 4184226.979 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU10 | POINT | 658474.504 | 4184227.096 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU11 | POINT | 658478.549 | 4184227.306 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU12 | POINT | 658482.569 | 4184227.346 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU13 | POINT | 658490.296 | 4184227.726 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU14 | POINT | 658494.276 | 4184227.688 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU15 | POINT | 658498.180 | 4184227.805 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU16 | POINT | 658502.044 | 4184227.883 | 13.280 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU17 | POINT | 658506.026 | 4184228.001 | 13.270 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU18 | POINT | 658510.070 | 4184228.211 | 13.260 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU19 | POINT | 658514.091 | 4184228.250 | 13.250 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU20 | POINT | 658521.938 | 4184228.553 | 13.230 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU21 | POINT | 658525.918 | 4184228.515 | 13.220 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU22 | POINT | 658529.822 | 4184228.632 | 13.210 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU23 | POINT | 658533.686 | 4184228.710 | 13.200 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU24 | POINT | 658537.668 | 4184228.827 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU25 | POINT | 658541.713 | 4184229.038 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU26 | POINT | 658545.733 | 4184229.077 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU27 | POINT | 658553.626 | 4184229.380 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU28 | POINT | 658557.606 | 4184229.342 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU29 | POINT | 658561.510 | 4184229.459 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU30 | POINT | 658565.375 | 4184229.537 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU31 | POINT | 658569.356 | 4184229.654 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU32 | POINT | 658573.401 | 4184229.864 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU33 | POINT | 658577.421 | 4184229.904 | 13.200 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU34 | POINT | 658585.223 | 4184230.206 | 13.210 |
| ** | DESCRSRC | TRU   |       |            |             |        |
| ** | LOCATION | TRU35 | POINT | 658589.203 | 4184230.168 | 13.220 |
| ** | DESCRSRC | TRU   |       |            |             |        |

|    |          |          |       |            |             |        |
|----|----------|----------|-------|------------|-------------|--------|
|    | LOCATION | TRU36    | POINT | 658593.106 | 4184230.285 | 13.230 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU37    | POINT | 658596.971 | 4184230.363 | 13.230 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU38    | POINT | 658600.953 | 4184230.481 | 13.240 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU39    | POINT | 658604.997 | 4184230.691 | 13.240 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU40    | POINT | 658609.018 | 4184230.730 | 13.250 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU41    | POINT | 658616.773 | 4184231.125 | 13.250 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU42    | POINT | 658620.753 | 4184231.087 | 13.260 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU43    | POINT | 658624.657 | 4184231.204 | 13.260 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU44    | POINT | 658628.521 | 4184231.282 | 13.270 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU45    | POINT | 658632.503 | 4184231.399 | 13.280 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TRU46    | POINT | 658636.547 | 4184231.610 | 13.290 |
| ** | DESCRSRC | TRU      |       |            |             |        |
|    | LOCATION | TTP1     | POINT | 658419.221 | 4184197.291 | 13.180 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP2     | POINT | 658422.143 | 4184197.413 | 13.190 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP3     | POINT | 658425.188 | 4184197.413 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP4     | POINT | 658428.354 | 4184197.656 | 13.210 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP5     | POINT | 658431.398 | 4184197.778 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP6     | POINT | 658434.321 | 4184197.656 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP7     | POINT | 658437.244 | 4184197.900 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP8     | POINT | 658440.166 | 4184198.022 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP9     | POINT | 658443.211 | 4184198.022 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP10    | POINT | 658446.377 | 4184198.265 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP11    | POINT | 658449.421 | 4184198.387 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP12    | POINT | 658452.344 | 4184198.265 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP13    | POINT | 658455.632 | 4184198.387 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP14    | POINT | 658458.554 | 4184198.509 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP15    | POINT | 658461.599 | 4184198.509 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP16    | POINT | 658464.765 | 4184198.752 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP17    | POINT | 658467.809 | 4184198.874 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP18    | POINT | 658470.732 | 4184198.752 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP19    | POINT | 658474.020 | 4184198.996 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP20    | POINT | 658476.942 | 4184199.118 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP21    | POINT | 658479.987 | 4184199.118 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP22    | POINT | 658483.153 | 4184199.361 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |

|    |          |          |       |            |             |        |
|----|----------|----------|-------|------------|-------------|--------|
|    | LOCATION | TTP23    | POINT | 658486.197 | 4184199.483 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP24    | POINT | 658489.120 | 4184199.361 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP25    | POINT | 658491.921 | 4184199.483 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP26    | POINT | 658494.844 | 4184199.605 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP27    | POINT | 658497.888 | 4184199.605 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP28    | POINT | 658501.054 | 4184199.848 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP29    | POINT | 658504.099 | 4184199.970 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP30    | POINT | 658507.021 | 4184199.848 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP31    | POINT | 658510.309 | 4184199.727 | 13.210 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP32    | POINT | 658513.232 | 4184199.848 | 13.210 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP33    | POINT | 658516.276 | 4184199.848 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP34    | POINT | 658519.442 | 4184200.092 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP35    | POINT | 658522.487 | 4184200.214 | 13.190 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP36    | POINT | 658525.409 | 4184200.092 | 13.190 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP37    | POINT | 658528.819 | 4184200.336 | 13.190 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP38    | POINT | 658531.742 | 4184200.457 | 13.190 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP39    | POINT | 658534.786 | 4184200.457 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP40    | POINT | 658537.952 | 4184200.701 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP41    | POINT | 658540.997 | 4184200.823 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP42    | POINT | 658543.919 | 4184200.701 | 13.200 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP43    | POINT | 658546.720 | 4184200.701 | 13.210 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP44    | POINT | 658549.643 | 4184200.823 | 13.210 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP45    | POINT | 658552.687 | 4184200.823 | 13.220 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP46    | POINT | 658555.853 | 4184201.066 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP47    | POINT | 658558.898 | 4184201.188 | 13.230 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP48    | POINT | 658561.820 | 4184201.066 | 13.240 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP49    | POINT | 658565.230 | 4184201.188 | 13.250 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP50    | POINT | 658568.153 | 4184201.310 | 13.260 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP51    | POINT | 658571.197 | 4184201.310 | 13.270 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP52    | POINT | 658574.363 | 4184201.553 | 13.280 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP53    | POINT | 658577.408 | 4184201.675 | 13.280 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP54    | POINT | 658580.330 | 4184201.553 | 13.290 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |
|    | LOCATION | TTP55    | POINT | 658583.375 | 4184201.919 | 13.290 |
| ** | DESCRSRC | TTP Idle |       |            |             |        |

|             |          |       |            |             |        |
|-------------|----------|-------|------------|-------------|--------|
| LOCATION    | TTP56    | POINT | 658586.297 | 4184202.040 | 13.290 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP57    | POINT | 658589.342 | 4184202.040 | 13.300 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP58    | POINT | 658592.508 | 4184202.284 | 13.300 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP59    | POINT | 658595.552 | 4184202.406 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP60    | POINT | 658598.475 | 4184202.284 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP61    | POINT | 658601.763 | 4184202.162 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP62    | POINT | 658604.685 | 4184202.284 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP63    | POINT | 658607.730 | 4184202.284 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP64    | POINT | 658610.896 | 4184202.527 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP65    | POINT | 658613.940 | 4184202.649 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP66    | POINT | 658616.863 | 4184202.527 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP67    | POINT | 658619.907 | 4184202.771 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP68    | POINT | 658622.830 | 4184202.893 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP69    | POINT | 658625.874 | 4184202.893 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP70    | POINT | 658629.041 | 4184203.136 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP71    | POINT | 658632.085 | 4184203.258 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP72    | POINT | 658635.008 | 4184203.136 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP73    | POINT | 658638.174 | 4184203.258 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP74    | POINT | 658641.096 | 4184203.380 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP75    | POINT | 658644.141 | 4184203.380 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP76    | POINT | 658647.307 | 4184203.623 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP77    | POINT | 658650.351 | 4184203.745 | 13.340 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP78    | POINT | 658653.274 | 4184203.623 | 13.350 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP79    | POINT | 658656.075 | 4184203.745 | 13.360 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP80    | POINT | 658658.997 | 4184203.867 | 13.370 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP81    | POINT | 658662.042 | 4184203.867 | 13.380 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP82    | POINT | 658665.208 | 4184204.111 | 13.400 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP83    | POINT | 658668.252 | 4184204.232 | 13.410 |
| ** DESCRSRC | TTP Idle |       |            |             |        |

\*\* -----  
 \*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE1  
 \*\* DESCRSRC On-Site  
 \*\* PREFIX  
 \*\* Length of Side = 8.59  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 0.00008511  
 \*\* Vertical Dimension = 6.99  
 \*\* SZINIT = 3.25

```

** Nodes = 7
** 658415.809, 4184209.947, 13.21, 3.49, 4.00
** 658601.519, 4184213.680, 13.30, 3.49, 4.00
** 658684.575, 4184216.013, 13.51, 3.49, 4.00
** 658704.172, 4184217.180, 13.56, 3.49, 4.00
** 658717.471, 4184217.413, 13.60, 3.49, 4.00
** 658738.935, 4184219.979, 13.57, 3.49, 4.00
** 658762.732, 4184224.879, 13.10, 3.49, 4.00
** -----
LOCATION L0000001    VOLUME    658420.103 4184210.034 13.23
LOCATION L0000002    VOLUME    658428.692 4184210.206 13.27
LOCATION L0000003    VOLUME    658437.280 4184210.379 13.28
LOCATION L0000004    VOLUME    658445.868 4184210.551 13.28
LOCATION L0000005    VOLUME    658454.456 4184210.724 13.29
LOCATION L0000006    VOLUME    658463.045 4184210.897 13.28
LOCATION L0000007    VOLUME    658471.633 4184211.069 13.28
LOCATION L0000008    VOLUME    658480.221 4184211.242 13.27
LOCATION L0000009    VOLUME    658488.810 4184211.415 13.26
LOCATION L0000010    VOLUME    658497.398 4184211.587 13.26
LOCATION L0000011    VOLUME    658505.986 4184211.760 13.24
LOCATION L0000012    VOLUME    658514.574 4184211.932 13.21
LOCATION L0000013    VOLUME    658523.163 4184212.105 13.19
LOCATION L0000014    VOLUME    658531.751 4184212.278 13.18
LOCATION L0000015    VOLUME    658540.339 4184212.450 13.18
LOCATION L0000016    VOLUME    658548.927 4184212.623 13.18
LOCATION L0000017    VOLUME    658557.516 4184212.796 13.20
LOCATION L0000018    VOLUME    658566.104 4184212.968 13.23
LOCATION L0000019    VOLUME    658574.692 4184213.141 13.26
LOCATION L0000020    VOLUME    658583.280 4184213.313 13.28
LOCATION L0000021    VOLUME    658591.869 4184213.486 13.29
LOCATION L0000022    VOLUME    658600.457 4184213.659 13.30
LOCATION L0000023    VOLUME    658609.044 4184213.891 13.31
LOCATION L0000024    VOLUME    658617.630 4184214.133 13.31
LOCATION L0000025    VOLUME    658626.217 4184214.374 13.31
LOCATION L0000026    VOLUME    658634.804 4184214.615 13.32
LOCATION L0000027    VOLUME    658643.390 4184214.856 13.33
LOCATION L0000028    VOLUME    658651.977 4184215.097 13.35
LOCATION L0000029    VOLUME    658660.563 4184215.339 13.40
LOCATION L0000030    VOLUME    658669.150 4184215.580 13.44
LOCATION L0000031    VOLUME    658677.737 4184215.821 13.48
LOCATION L0000032    VOLUME    658686.321 4184216.117 13.51
LOCATION L0000033    VOLUME    658694.896 4184216.627 13.55
LOCATION L0000034    VOLUME    658703.471 4184217.138 13.57
LOCATION L0000035    VOLUME    658712.058 4184217.318 13.58
LOCATION L0000036    VOLUME    658720.625 4184217.790 13.60
LOCATION L0000037    VOLUME    658729.154 4184218.810 13.60
LOCATION L0000038    VOLUME    658737.683 4184219.830 13.59
LOCATION L0000039    VOLUME    658746.114 4184221.457 13.54
LOCATION L0000040    VOLUME    658754.527 4184223.190 13.33
** End of LINE VOLUME Source ID = SLINE1
LOCATION STCK1        POINT        658699.750 4184281.400      13.560
** DESCRSRC Fire Pump
LOCATION STCK2        POINT        658700.160 4184271.260      13.560
** DESCRSRC Emergency Generator
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Spreckels S 71.12%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002895
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 10
** 658773.380, 4184223.229, 13.01, 3.49, 6.51

```



\*\* 658777.575, 4184195.266, 12.95, 3.49, 6.51  
\*\* 658777.575, 4184152.389, 12.90, 3.49, 6.51  
\*\* 658773.846, 4184100.658, 13.02, 3.49, 6.51  
\*\* 658756.137, 4184034.479, 12.95, 3.49, 6.51  
\*\* 658742.621, 4183996.729, 12.81, 3.49, 6.51  
\*\* 658722.115, 4183953.853, 12.87, 3.49, 6.51  
\*\* 658633.566, 4183821.495, 12.98, 3.49, 6.51  
\*\* 658569.717, 4183730.149, 12.58, 3.49, 6.51  
\*\* 658479.770, 4183604.782, 12.56, 3.49, 6.51

\*\* -----  
LOCATION L0000041 VOLUME 658774.419 4184216.306 12.95  
LOCATION L0000042 VOLUME 658776.496 4184202.461 12.95  
LOCATION L0000043 VOLUME 658777.575 4184188.542 12.95  
LOCATION L0000044 VOLUME 658777.575 4184174.542 12.92  
LOCATION L0000045 VOLUME 658777.575 4184160.542 12.89  
LOCATION L0000046 VOLUME 658777.154 4184146.557 12.92  
LOCATION L0000047 VOLUME 658776.148 4184132.593 12.99  
LOCATION L0000048 VOLUME 658775.142 4184118.629 13.05  
LOCATION L0000049 VOLUME 658774.135 4184104.666 13.03  
LOCATION L0000050 VOLUME 658771.266 4184091.015 12.98  
LOCATION L0000051 VOLUME 658767.647 4184077.491 12.96  
LOCATION L0000052 VOLUME 658764.028 4184063.967 12.95  
LOCATION L0000053 VOLUME 658760.409 4184050.443 12.96  
LOCATION L0000054 VOLUME 658756.789 4184036.919 12.95  
LOCATION L0000055 VOLUME 658752.269 4184023.676 12.91  
LOCATION L0000056 VOLUME 658747.550 4184010.495 12.84  
LOCATION L0000057 VOLUME 658742.831 4183997.315 12.86  
LOCATION L0000058 VOLUME 658736.849 4183984.660 12.90  
LOCATION L0000059 VOLUME 658730.809 4183972.030 12.93  
LOCATION L0000060 VOLUME 658724.768 4183959.401 12.92  
LOCATION L0000061 VOLUME 658717.750 4183947.328 12.89  
LOCATION L0000062 VOLUME 658709.965 4183935.692 12.89  
LOCATION L0000063 VOLUME 658702.181 4183924.056 12.89  
LOCATION L0000064 VOLUME 658694.396 4183912.420 12.88  
LOCATION L0000065 VOLUME 658686.611 4183900.784 12.94  
LOCATION L0000066 VOLUME 658678.826 4183889.148 12.99  
LOCATION L0000067 VOLUME 658671.042 4183877.511 13.15  
LOCATION L0000068 VOLUME 658663.257 4183865.875 13.23  
LOCATION L0000069 VOLUME 658655.472 4183854.239 13.09  
LOCATION L0000070 VOLUME 658647.688 4183842.603 12.85  
LOCATION L0000071 VOLUME 658639.903 4183830.967 12.93  
LOCATION L0000072 VOLUME 658632.074 4183819.361 12.96  
LOCATION L0000073 VOLUME 658624.054 4183807.886 12.92  
LOCATION L0000074 VOLUME 658616.033 4183796.412 12.89  
LOCATION L0000075 VOLUME 658608.012 4183784.937 12.90  
LOCATION L0000076 VOLUME 658599.992 4183773.462 12.80  
LOCATION L0000077 VOLUME 658591.971 4183761.987 12.74  
LOCATION L0000078 VOLUME 658583.951 4183750.513 12.76  
LOCATION L0000079 VOLUME 658575.930 4183739.038 12.62  
LOCATION L0000080 VOLUME 658567.878 4183727.586 12.52  
LOCATION L0000081 VOLUME 658559.716 4183716.210 12.51  
LOCATION L0000082 VOLUME 658551.555 4183704.835 12.23  
LOCATION L0000083 VOLUME 658543.394 4183693.460 12.20  
LOCATION L0000084 VOLUME 658535.232 4183682.085 12.27  
LOCATION L0000085 VOLUME 658527.071 4183670.710 12.05  
LOCATION L0000086 VOLUME 658518.910 4183659.335 12.11  
LOCATION L0000087 VOLUME 658510.748 4183647.960 12.14  
LOCATION L0000088 VOLUME 658502.587 4183636.585 12.14  
LOCATION L0000089 VOLUME 658494.426 4183625.210 12.42  
LOCATION L0000090 VOLUME 658486.265 4183613.835 12.48

\*\* End of LINE VOLUME Source ID = SLINE2

\*\* -----  
\*\* Line Source Represented by Adjacent Volume Sources  
\*\* LINE VOLUME Source ID = SLINE3  
\*\* DESCRSRC Spreckels S 37.93%  
\*\* PREFIX

```

** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00004855
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 18
** 658479.703, 4183602.879, 12.57, 3.49, 6.51
** 658440.998, 4183545.467, 12.80, 3.49, 6.51
** 658404.874, 4183508.053, 12.70, 3.49, 6.51
** 658348.752, 4183472.573, 12.96, 3.49, 6.51
** 658313.273, 4183459.027, 12.90, 3.49, 6.51
** 658273.278, 4183449.351, 13.05, 3.49, 6.51
** 658235.864, 4183448.060, 13.21, 3.49, 6.51
** 658002.346, 4183441.610, 12.76, 3.49, 6.51
** 657926.872, 4183446.125, 12.28, 3.49, 6.51
** 657908.439, 4183448.168, 12.04, 3.49, 6.51
** 657870.937, 4183464.240, 11.81, 3.49, 6.51
** 657678.617, 4183554.320, 11.22, 3.49, 6.51
** 657368.460, 4183705.863, 11.53, 3.49, 6.51
** 657316.598, 4183729.099, 11.47, 3.49, 6.51
** 657297.066, 4183738.529, 11.48, 3.49, 6.51
** 657248.750, 4183749.256, 11.39, 3.49, 6.51
** 657089.806, 4183749.256, 11.41, 3.49, 6.51
** 657113.915, 4183052.762, 11.70, 3.49, 6.51
** -----
LOCATION L0000091      VOLUME  658475.790 4183597.075 12.59
LOCATION L0000092      VOLUME  658467.964 4183585.466 12.78
LOCATION L0000093      VOLUME  658460.138 4183573.858 12.99
LOCATION L0000094      VOLUME  658452.312 4183562.249 13.07
LOCATION L0000095      VOLUME  658444.486 4183550.641 12.90
LOCATION L0000096      VOLUME  658435.608 4183539.884 12.73
LOCATION L0000097      VOLUME  658425.884 4183529.813 12.62
LOCATION L0000098      VOLUME  658416.160 4183519.741 12.61
LOCATION L0000099      VOLUME  658406.435 4183509.670 12.65
LOCATION L0000100      VOLUME  658394.940 4183501.773 12.70
LOCATION L0000101      VOLUME  658383.107 4183494.292 12.72
LOCATION L0000102      VOLUME  658371.273 4183486.811 12.77
LOCATION L0000103      VOLUME  658359.439 4183479.330 12.85
LOCATION L0000104      VOLUME  658347.485 4183472.089 12.92
LOCATION L0000105      VOLUME  658334.406 4183467.096 12.93
LOCATION L0000106      VOLUME  658321.327 4183462.102 12.93
LOCATION L0000107      VOLUME  658308.045 4183457.762 12.99
LOCATION L0000108      VOLUME  658294.438 4183454.470 13.08
LOCATION L0000109      VOLUME  658280.830 4183451.178 13.17
LOCATION L0000110      VOLUME  658267.052 4183449.136 13.23
LOCATION L0000111      VOLUME  658253.060 4183448.653 13.24
LOCATION L0000112      VOLUME  658239.068 4183448.171 13.24
LOCATION L0000113      VOLUME  658225.074 4183447.762 13.23
LOCATION L0000114      VOLUME  658211.080 4183447.376 13.21
LOCATION L0000115      VOLUME  658197.085 4183446.989 13.19
LOCATION L0000116      VOLUME  658183.090 4183446.603 13.18
LOCATION L0000117      VOLUME  658169.096 4183446.216 13.17
LOCATION L0000118      VOLUME  658155.101 4183445.829 13.13
LOCATION L0000119      VOLUME  658141.106 4183445.443 13.09
LOCATION L0000120      VOLUME  658127.112 4183445.056 13.05
LOCATION L0000121      VOLUME  658113.117 4183444.670 13.02
LOCATION L0000122      VOLUME  658099.122 4183444.283 12.99
LOCATION L0000123      VOLUME  658085.128 4183443.896 12.96
LOCATION L0000124      VOLUME  658071.133 4183443.510 12.93
LOCATION L0000125      VOLUME  658057.138 4183443.123 12.92
LOCATION L0000126      VOLUME  658043.144 4183442.737 12.89
LOCATION L0000127      VOLUME  658029.149 4183442.350 12.86
LOCATION L0000128      VOLUME  658015.154 4183441.963 12.81
LOCATION L0000129      VOLUME  658001.161 4183441.680 12.75
LOCATION L0000130      VOLUME  657987.186 4183442.517 12.67
LOCATION L0000131      VOLUME  657973.211 4183443.353 12.59

```

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000132 | VOLUME | 657959.236 | 4183444.189 | 12.49 |
| LOCATION | L0000133 | VOLUME | 657945.261 | 4183445.025 | 12.40 |
| LOCATION | L0000134 | VOLUME | 657931.286 | 4183445.861 | 12.30 |
| LOCATION | L0000135 | VOLUME | 657917.353 | 4183447.180 | 12.16 |
| LOCATION | L0000136 | VOLUME | 657903.814 | 4183450.150 | 12.01 |
| LOCATION | L0000137 | VOLUME | 657890.946 | 4183455.665 | 11.91 |
| LOCATION | L0000138 | VOLUME | 657878.078 | 4183461.180 | 11.79 |
| LOCATION | L0000139 | VOLUME | 657865.294 | 4183466.883 | 11.80 |
| LOCATION | L0000140 | VOLUME | 657852.616 | 4183472.822 | 11.77 |
| LOCATION | L0000141 | VOLUME | 657839.938 | 4183478.760 | 11.74 |
| LOCATION | L0000142 | VOLUME | 657827.260 | 4183484.698 | 11.66 |
| LOCATION | L0000143 | VOLUME | 657814.582 | 4183490.637 | 11.56 |
| LOCATION | L0000144 | VOLUME | 657801.903 | 4183496.575 | 11.50 |
| LOCATION | L0000145 | VOLUME | 657789.225 | 4183502.513 | 11.46 |
| LOCATION | L0000146 | VOLUME | 657776.547 | 4183508.451 | 11.41 |
| LOCATION | L0000147 | VOLUME | 657763.869 | 4183514.390 | 11.33 |
| LOCATION | L0000148 | VOLUME | 657751.191 | 4183520.328 | 11.25 |
| LOCATION | L0000149 | VOLUME | 657738.512 | 4183526.266 | 11.27 |
| LOCATION | L0000150 | VOLUME | 657725.834 | 4183532.204 | 11.28 |
| LOCATION | L0000151 | VOLUME | 657713.156 | 4183538.143 | 11.29 |
| LOCATION | L0000152 | VOLUME | 657700.478 | 4183544.081 | 11.24 |
| LOCATION | L0000153 | VOLUME | 657687.800 | 4183550.019 | 11.25 |
| LOCATION | L0000154 | VOLUME | 657675.149 | 4183556.015 | 11.36 |
| LOCATION | L0000155 | VOLUME | 657662.570 | 4183562.161 | 11.44 |
| LOCATION | L0000156 | VOLUME | 657649.991 | 4183568.307 | 11.44 |
| LOCATION | L0000157 | VOLUME | 657637.412 | 4183574.453 | 11.40 |
| LOCATION | L0000158 | VOLUME | 657624.833 | 4183580.599 | 11.43 |
| LOCATION | L0000159 | VOLUME | 657612.255 | 4183586.745 | 11.52 |
| LOCATION | L0000160 | VOLUME | 657599.676 | 4183592.891 | 11.56 |
| LOCATION | L0000161 | VOLUME | 657587.097 | 4183599.037 | 11.53 |
| LOCATION | L0000162 | VOLUME | 657574.518 | 4183605.183 | 11.45 |
| LOCATION | L0000163 | VOLUME | 657561.939 | 4183611.329 | 11.43 |
| LOCATION | L0000164 | VOLUME | 657549.361 | 4183617.475 | 11.46 |
| LOCATION | L0000165 | VOLUME | 657536.782 | 4183623.621 | 11.45 |
| LOCATION | L0000166 | VOLUME | 657524.203 | 4183629.767 | 11.40 |
| LOCATION | L0000167 | VOLUME | 657511.624 | 4183635.913 | 11.26 |
| LOCATION | L0000168 | VOLUME | 657499.045 | 4183642.059 | 11.19 |
| LOCATION | L0000169 | VOLUME | 657486.466 | 4183648.205 | 11.15 |
| LOCATION | L0000170 | VOLUME | 657473.888 | 4183654.351 | 11.12 |
| LOCATION | L0000171 | VOLUME | 657461.309 | 4183660.497 | 11.06 |
| LOCATION | L0000172 | VOLUME | 657448.730 | 4183666.643 | 10.96 |
| LOCATION | L0000173 | VOLUME | 657436.151 | 4183672.789 | 10.99 |
| LOCATION | L0000174 | VOLUME | 657423.572 | 4183678.935 | 11.15 |
| LOCATION | L0000175 | VOLUME | 657410.994 | 4183685.081 | 11.27 |
| LOCATION | L0000176 | VOLUME | 657398.415 | 4183691.227 | 11.33 |
| LOCATION | L0000177 | VOLUME | 657385.836 | 4183697.373 | 11.34 |
| LOCATION | L0000178 | VOLUME | 657373.257 | 4183703.519 | 11.45 |
| LOCATION | L0000179 | VOLUME | 657360.556 | 4183709.404 | 11.50 |
| LOCATION | L0000180 | VOLUME | 657347.780 | 4183715.128 | 11.51 |
| LOCATION | L0000181 | VOLUME | 657335.004 | 4183720.853 | 11.49 |
| LOCATION | L0000182 | VOLUME | 657322.228 | 4183726.577 | 11.46 |
| LOCATION | L0000183 | VOLUME | 657309.546 | 4183732.504 | 11.46 |
| LOCATION | L0000184 | VOLUME | 657296.927 | 4183738.560 | 11.45 |
| LOCATION | L0000185 | VOLUME | 657283.260 | 4183741.594 | 11.43 |
| LOCATION | L0000186 | VOLUME | 657269.593 | 4183744.628 | 11.41 |
| LOCATION | L0000187 | VOLUME | 657255.926 | 4183747.663 | 11.39 |
| LOCATION | L0000188 | VOLUME | 657242.100 | 4183749.256 | 11.36 |
| LOCATION | L0000189 | VOLUME | 657228.100 | 4183749.256 | 11.33 |
| LOCATION | L0000190 | VOLUME | 657214.100 | 4183749.256 | 11.30 |
| LOCATION | L0000191 | VOLUME | 657200.100 | 4183749.256 | 11.29 |
| LOCATION | L0000192 | VOLUME | 657186.100 | 4183749.256 | 11.28 |
| LOCATION | L0000193 | VOLUME | 657172.100 | 4183749.256 | 11.28 |
| LOCATION | L0000194 | VOLUME | 657158.100 | 4183749.256 | 11.30 |
| LOCATION | L0000195 | VOLUME | 657144.100 | 4183749.256 | 11.34 |
| LOCATION | L0000196 | VOLUME | 657130.100 | 4183749.256 | 11.39 |
| LOCATION | L0000197 | VOLUME | 657116.100 | 4183749.256 | 11.44 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000198 | VOLUME | 657102.100 | 4183749.256 | 11.43 |
| LOCATION | L0000199 | VOLUME | 657089.865 | 4183747.551 | 11.40 |
| LOCATION | L0000200 | VOLUME | 657090.349 | 4183733.559 | 11.37 |
| LOCATION | L0000201 | VOLUME | 657090.834 | 4183719.568 | 11.33 |
| LOCATION | L0000202 | VOLUME | 657091.318 | 4183705.576 | 11.29 |
| LOCATION | L0000203 | VOLUME | 657091.802 | 4183691.585 | 11.25 |
| LOCATION | L0000204 | VOLUME | 657092.287 | 4183677.593 | 11.17 |
| LOCATION | L0000205 | VOLUME | 657092.771 | 4183663.601 | 11.08 |
| LOCATION | L0000206 | VOLUME | 657093.255 | 4183649.610 | 11.02 |
| LOCATION | L0000207 | VOLUME | 657093.740 | 4183635.618 | 10.96 |
| LOCATION | L0000208 | VOLUME | 657094.224 | 4183621.627 | 10.96 |
| LOCATION | L0000209 | VOLUME | 657094.708 | 4183607.635 | 11.01 |
| LOCATION | L0000210 | VOLUME | 657095.193 | 4183593.643 | 11.03 |
| LOCATION | L0000211 | VOLUME | 657095.677 | 4183579.652 | 11.02 |
| LOCATION | L0000212 | VOLUME | 657096.161 | 4183565.660 | 11.02 |
| LOCATION | L0000213 | VOLUME | 657096.646 | 4183551.668 | 11.13 |
| LOCATION | L0000214 | VOLUME | 657097.130 | 4183537.677 | 11.24 |
| LOCATION | L0000215 | VOLUME | 657097.614 | 4183523.685 | 11.41 |
| LOCATION | L0000216 | VOLUME | 657098.099 | 4183509.694 | 11.59 |
| LOCATION | L0000217 | VOLUME | 657098.583 | 4183495.702 | 11.78 |
| LOCATION | L0000218 | VOLUME | 657099.067 | 4183481.710 | 11.97 |
| LOCATION | L0000219 | VOLUME | 657099.552 | 4183467.719 | 12.03 |
| LOCATION | L0000220 | VOLUME | 657100.036 | 4183453.727 | 11.98 |
| LOCATION | L0000221 | VOLUME | 657100.520 | 4183439.735 | 12.02 |
| LOCATION | L0000222 | VOLUME | 657101.005 | 4183425.744 | 12.24 |
| LOCATION | L0000223 | VOLUME | 657101.489 | 4183411.752 | 12.48 |
| LOCATION | L0000224 | VOLUME | 657101.973 | 4183397.761 | 12.80 |
| LOCATION | L0000225 | VOLUME | 657102.458 | 4183383.769 | 13.12 |
| LOCATION | L0000226 | VOLUME | 657102.942 | 4183369.777 | 13.43 |
| LOCATION | L0000227 | VOLUME | 657103.426 | 4183355.786 | 13.75 |
| LOCATION | L0000228 | VOLUME | 657103.911 | 4183341.794 | 14.00 |
| LOCATION | L0000229 | VOLUME | 657104.395 | 4183327.803 | 14.24 |
| LOCATION | L0000230 | VOLUME | 657104.879 | 4183313.811 | 14.00 |
| LOCATION | L0000231 | VOLUME | 657105.363 | 4183299.819 | 13.30 |
| LOCATION | L0000232 | VOLUME | 657105.848 | 4183285.828 | 12.72 |
| LOCATION | L0000233 | VOLUME | 657106.332 | 4183271.836 | 12.46 |
| LOCATION | L0000234 | VOLUME | 657106.816 | 4183257.844 | 12.30 |
| LOCATION | L0000235 | VOLUME | 657107.301 | 4183243.853 | 13.07 |
| LOCATION | L0000236 | VOLUME | 657107.785 | 4183229.861 | 13.87 |
| LOCATION | L0000237 | VOLUME | 657108.269 | 4183215.870 | 13.95 |
| LOCATION | L0000238 | VOLUME | 657108.754 | 4183201.878 | 13.97 |
| LOCATION | L0000239 | VOLUME | 657109.238 | 4183187.886 | 13.82 |
| LOCATION | L0000240 | VOLUME | 657109.722 | 4183173.895 | 13.61 |
| LOCATION | L0000241 | VOLUME | 657110.207 | 4183159.903 | 13.36 |
| LOCATION | L0000242 | VOLUME | 657110.691 | 4183145.911 | 13.07 |
| LOCATION | L0000243 | VOLUME | 657111.175 | 4183131.920 | 12.77 |
| LOCATION | L0000244 | VOLUME | 657111.660 | 4183117.928 | 12.41 |
| LOCATION | L0000245 | VOLUME | 657112.144 | 4183103.937 | 12.08 |
| LOCATION | L0000246 | VOLUME | 657112.628 | 4183089.945 | 11.93 |
| LOCATION | L0000247 | VOLUME | 657113.113 | 4183075.953 | 11.77 |
| LOCATION | L0000248 | VOLUME | 657113.597 | 4183061.962 | 11.78 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Mofatt 9.27%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.441E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 15

\*\* 658473.571, 4183597.801, 12.61, 3.49, 6.51

\*\* 658365.115, 4183676.778, 12.74, 3.49, 6.51

\*\* 658143.756, 4183838.071, 11.67, 3.49, 6.51

\*\* 658061.441, 4183898.138, 11.43, 3.49, 6.51  
 \*\* 657958.548, 4183972.110, 11.41, 3.49, 6.51  
 \*\* 657919.059, 4184007.149, 11.52, 3.49, 6.51  
 \*\* 657890.694, 4184041.076, 11.54, 3.49, 6.51  
 \*\* 657859.548, 4184074.447, 11.47, 3.49, 6.51  
 \*\* 657810.048, 4184112.267, 11.30, 3.49, 6.51  
 \*\* 657595.362, 4184262.436, 11.90, 3.49, 6.51  
 \*\* 657317.272, 4184459.880, 11.65, 3.49, 6.51  
 \*\* 657123.165, 4184601.706, 11.24, 3.49, 6.51  
 \*\* 657087.570, 4184626.734, 11.09, 3.49, 6.51  
 \*\* 657059.761, 4184638.970, 11.03, 3.49, 6.51  
 \*\* 657056.980, 4184638.970, 11.01, 3.49, 6.51

|    |          |          |        |            |                   |
|----|----------|----------|--------|------------|-------------------|
| ** | -----    |          |        |            |                   |
|    | LOCATION | L0000249 | VOLUME | 658467.912 | 4183601.921 12.58 |
|    | LOCATION | L0000250 | VOLUME | 658456.595 | 4183610.163 12.54 |
|    | LOCATION | L0000251 | VOLUME | 658445.277 | 4183618.404 12.50 |
|    | LOCATION | L0000252 | VOLUME | 658433.960 | 4183626.645 12.37 |
|    | LOCATION | L0000253 | VOLUME | 658422.643 | 4183634.887 12.22 |
|    | LOCATION | L0000254 | VOLUME | 658411.326 | 4183643.128 12.28 |
|    | LOCATION | L0000255 | VOLUME | 658400.008 | 4183651.369 12.40 |
|    | LOCATION | L0000256 | VOLUME | 658388.691 | 4183659.610 12.48 |
|    | LOCATION | L0000257 | VOLUME | 658377.374 | 4183667.852 12.44 |
|    | LOCATION | L0000258 | VOLUME | 658366.056 | 4183676.093 12.66 |
|    | LOCATION | L0000259 | VOLUME | 658354.741 | 4183684.337 12.80 |
|    | LOCATION | L0000260 | VOLUME | 658343.426 | 4183692.582 12.78 |
|    | LOCATION | L0000261 | VOLUME | 658332.111 | 4183700.826 12.75 |
|    | LOCATION | L0000262 | VOLUME | 658320.796 | 4183709.071 12.76 |
|    | LOCATION | L0000263 | VOLUME | 658309.482 | 4183717.316 12.75 |
|    | LOCATION | L0000264 | VOLUME | 658298.167 | 4183725.560 12.65 |
|    | LOCATION | L0000265 | VOLUME | 658286.852 | 4183733.805 12.60 |
|    | LOCATION | L0000266 | VOLUME | 658275.537 | 4183742.049 12.57 |
|    | LOCATION | L0000267 | VOLUME | 658264.222 | 4183750.294 12.54 |
|    | LOCATION | L0000268 | VOLUME | 658252.907 | 4183758.538 12.44 |
|    | LOCATION | L0000269 | VOLUME | 658241.592 | 4183766.783 12.39 |
|    | LOCATION | L0000270 | VOLUME | 658230.277 | 4183775.027 12.34 |
|    | LOCATION | L0000271 | VOLUME | 658218.962 | 4183783.272 12.25 |
|    | LOCATION | L0000272 | VOLUME | 658207.647 | 4183791.516 12.14 |
|    | LOCATION | L0000273 | VOLUME | 658196.332 | 4183799.761 12.06 |
|    | LOCATION | L0000274 | VOLUME | 658185.017 | 4183808.005 11.98 |
|    | LOCATION | L0000275 | VOLUME | 658173.702 | 4183816.250 11.89 |
|    | LOCATION | L0000276 | VOLUME | 658162.388 | 4183824.495 11.81 |
|    | LOCATION | L0000277 | VOLUME | 658151.073 | 4183832.739 11.72 |
|    | LOCATION | L0000278 | VOLUME | 658139.760 | 4183840.986 11.66 |
|    | LOCATION | L0000279 | VOLUME | 658128.451 | 4183849.239 11.60 |
|    | LOCATION | L0000280 | VOLUME | 658117.142 | 4183857.492 11.56 |
|    | LOCATION | L0000281 | VOLUME | 658105.833 | 4183865.744 11.49 |
|    | LOCATION | L0000282 | VOLUME | 658094.523 | 4183873.997 11.46 |
|    | LOCATION | L0000283 | VOLUME | 658083.214 | 4183882.249 11.46 |
|    | LOCATION | L0000284 | VOLUME | 658071.905 | 4183890.502 11.44 |
|    | LOCATION | L0000285 | VOLUME | 658060.592 | 4183898.748 11.42 |
|    | LOCATION | L0000286 | VOLUME | 658049.225 | 4183906.921 11.39 |
|    | LOCATION | L0000287 | VOLUME | 658037.857 | 4183915.093 11.36 |
|    | LOCATION | L0000288 | VOLUME | 658026.490 | 4183923.265 11.37 |
|    | LOCATION | L0000289 | VOLUME | 658015.123 | 4183931.437 11.38 |
|    | LOCATION | L0000290 | VOLUME | 658003.755 | 4183939.609 11.36 |
|    | LOCATION | L0000291 | VOLUME | 657992.388 | 4183947.781 11.36 |
|    | LOCATION | L0000292 | VOLUME | 657981.021 | 4183955.954 11.37 |
|    | LOCATION | L0000293 | VOLUME | 657969.653 | 4183964.126 11.39 |
|    | LOCATION | L0000294 | VOLUME | 657958.307 | 4183972.324 11.40 |
|    | LOCATION | L0000295 | VOLUME | 657947.835 | 4183981.616 11.46 |
|    | LOCATION | L0000296 | VOLUME | 657937.363 | 4183990.908 11.48 |
|    | LOCATION | L0000297 | VOLUME | 657926.891 | 4184000.200 11.46 |
|    | LOCATION | L0000298 | VOLUME | 657916.795 | 4184009.857 11.50 |
|    | LOCATION | L0000299 | VOLUME | 657907.815 | 4184020.597 11.51 |
|    | LOCATION | L0000300 | VOLUME | 657898.836 | 4184031.338 11.51 |
|    | LOCATION | L0000301 | VOLUME | 657889.802 | 4184042.031 11.52 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000302 | VOLUME | 657880.250 | 4184052.266 | 11.47 |
| LOCATION | L0000303 | VOLUME | 657870.697 | 4184062.501 | 11.45 |
| LOCATION | L0000304 | VOLUME | 657861.145 | 4184072.736 | 11.46 |
| LOCATION | L0000305 | VOLUME | 657850.283 | 4184081.526 | 11.45 |
| LOCATION | L0000306 | VOLUME | 657839.159 | 4184090.025 | 11.43 |
| LOCATION | L0000307 | VOLUME | 657828.034 | 4184098.525 | 11.45 |
| LOCATION | L0000308 | VOLUME | 657816.910 | 4184107.025 | 11.50 |
| LOCATION | L0000309 | VOLUME | 657805.652 | 4184115.342 | 11.40 |
| LOCATION | L0000310 | VOLUME | 657794.180 | 4184123.367 | 11.41 |
| LOCATION | L0000311 | VOLUME | 657782.708 | 4184131.391 | 11.46 |
| LOCATION | L0000312 | VOLUME | 657771.236 | 4184139.416 | 11.50 |
| LOCATION | L0000313 | VOLUME | 657759.764 | 4184147.440 | 11.42 |
| LOCATION | L0000314 | VOLUME | 657748.292 | 4184155.465 | 11.45 |
| LOCATION | L0000315 | VOLUME | 657736.820 | 4184163.489 | 11.55 |
| LOCATION | L0000316 | VOLUME | 657725.348 | 4184171.513 | 11.51 |
| LOCATION | L0000317 | VOLUME | 657713.876 | 4184179.538 | 11.51 |
| LOCATION | L0000318 | VOLUME | 657702.404 | 4184187.562 | 11.60 |
| LOCATION | L0000319 | VOLUME | 657690.931 | 4184195.587 | 11.78 |
| LOCATION | L0000320 | VOLUME | 657679.459 | 4184203.611 | 11.82 |
| LOCATION | L0000321 | VOLUME | 657667.987 | 4184211.636 | 11.83 |
| LOCATION | L0000322 | VOLUME | 657656.515 | 4184219.660 | 11.81 |
| LOCATION | L0000323 | VOLUME | 657645.043 | 4184227.685 | 11.83 |
| LOCATION | L0000324 | VOLUME | 657633.571 | 4184235.709 | 11.83 |
| LOCATION | L0000325 | VOLUME | 657622.099 | 4184243.734 | 11.84 |
| LOCATION | L0000326 | VOLUME | 657610.627 | 4184251.758 | 11.86 |
| LOCATION | L0000327 | VOLUME | 657599.155 | 4184259.783 | 11.89 |
| LOCATION | L0000328 | VOLUME | 657587.721 | 4184267.861 | 11.87 |
| LOCATION | L0000329 | VOLUME | 657576.306 | 4184275.966 | 11.87 |
| LOCATION | L0000330 | VOLUME | 657564.890 | 4184284.071 | 11.91 |
| LOCATION | L0000331 | VOLUME | 657553.475 | 4184292.176 | 11.93 |
| LOCATION | L0000332 | VOLUME | 657542.060 | 4184300.281 | 11.93 |
| LOCATION | L0000333 | VOLUME | 657530.644 | 4184308.386 | 11.94 |
| LOCATION | L0000334 | VOLUME | 657519.229 | 4184316.491 | 11.94 |
| LOCATION | L0000335 | VOLUME | 657507.814 | 4184324.595 | 11.93 |
| LOCATION | L0000336 | VOLUME | 657496.398 | 4184332.700 | 11.91 |
| LOCATION | L0000337 | VOLUME | 657484.983 | 4184340.805 | 11.90 |
| LOCATION | L0000338 | VOLUME | 657473.567 | 4184348.910 | 11.90 |
| LOCATION | L0000339 | VOLUME | 657462.152 | 4184357.015 | 11.89 |
| LOCATION | L0000340 | VOLUME | 657450.737 | 4184365.120 | 11.87 |
| LOCATION | L0000341 | VOLUME | 657439.321 | 4184373.225 | 11.88 |
| LOCATION | L0000342 | VOLUME | 657427.906 | 4184381.330 | 11.90 |
| LOCATION | L0000343 | VOLUME | 657416.491 | 4184389.435 | 11.88 |
| LOCATION | L0000344 | VOLUME | 657405.075 | 4184397.540 | 11.86 |
| LOCATION | L0000345 | VOLUME | 657393.660 | 4184405.645 | 11.85 |
| LOCATION | L0000346 | VOLUME | 657382.245 | 4184413.749 | 11.80 |
| LOCATION | L0000347 | VOLUME | 657370.829 | 4184421.854 | 11.78 |
| LOCATION | L0000348 | VOLUME | 657359.414 | 4184429.959 | 11.77 |
| LOCATION | L0000349 | VOLUME | 657347.998 | 4184438.064 | 11.75 |
| LOCATION | L0000350 | VOLUME | 657336.583 | 4184446.169 | 11.74 |
| LOCATION | L0000351 | VOLUME | 657325.168 | 4184454.274 | 11.70 |
| LOCATION | L0000352 | VOLUME | 657313.787 | 4184462.427 | 11.65 |
| LOCATION | L0000353 | VOLUME | 657302.483 | 4184470.686 | 11.64 |
| LOCATION | L0000354 | VOLUME | 657291.179 | 4184478.945 | 11.61 |
| LOCATION | L0000355 | VOLUME | 657279.874 | 4184487.205 | 11.56 |
| LOCATION | L0000356 | VOLUME | 657268.570 | 4184495.464 | 11.51 |
| LOCATION | L0000357 | VOLUME | 657257.266 | 4184503.724 | 11.46 |
| LOCATION | L0000358 | VOLUME | 657245.962 | 4184511.983 | 11.41 |
| LOCATION | L0000359 | VOLUME | 657234.658 | 4184520.242 | 11.36 |
| LOCATION | L0000360 | VOLUME | 657223.354 | 4184528.502 | 11.32 |
| LOCATION | L0000361 | VOLUME | 657212.050 | 4184536.761 | 11.27 |
| LOCATION | L0000362 | VOLUME | 657200.746 | 4184545.021 | 11.22 |
| LOCATION | L0000363 | VOLUME | 657189.442 | 4184553.280 | 11.19 |
| LOCATION | L0000364 | VOLUME | 657178.138 | 4184561.540 | 11.16 |
| LOCATION | L0000365 | VOLUME | 657166.834 | 4184569.799 | 11.15 |
| LOCATION | L0000366 | VOLUME | 657155.530 | 4184578.058 | 11.16 |
| LOCATION | L0000367 | VOLUME | 657144.226 | 4184586.318 | 11.20 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000368 | VOLUME | 657132.922 | 4184594.577 | 11.24 |
| LOCATION | L0000369 | VOLUME | 657121.597 | 4184602.808 | 11.25 |
| LOCATION | L0000370 | VOLUME | 657110.145 | 4184610.861 | 11.20 |
| LOCATION | L0000371 | VOLUME | 657098.692 | 4184618.913 | 11.13 |
| LOCATION | L0000372 | VOLUME | 657087.201 | 4184626.896 | 11.06 |
| LOCATION | L0000373 | VOLUME | 657074.386 | 4184632.535 | 11.01 |
| LOCATION | L0000374 | VOLUME | 657061.572 | 4184638.173 | 10.99 |

\*\* End of LINE VOLUME Source ID = SLINE4

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Mofatt E 23.92%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00003777

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 9

\*\* 658479.281, 4183595.059, 12.57, 3.49, 6.51

\*\* 658616.498, 4183498.069, 13.21, 3.49, 6.51

\*\* 658728.543, 4183417.367, 13.72, 3.49, 6.51

\*\* 658759.639, 4183394.168, 13.72, 3.49, 6.51

\*\* 658815.088, 4183346.671, 13.74, 3.49, 6.51

\*\* 658970.832, 4183226.264, 14.14, 3.49, 6.51

\*\* 659233.242, 4183042.381, 14.38, 3.49, 6.51

\*\* 660349.854, 4182246.236, 15.56, 3.49, 6.51

\*\* 660339.529, 4182671.036, 14.66, 3.49, 6.51

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000375 | VOLUME | 658484.997 | 4183591.018 | 12.60 |
| LOCATION | L0000376 | VOLUME | 658496.429 | 4183582.938 | 12.69 |
| LOCATION | L0000377 | VOLUME | 658507.862 | 4183574.857 | 12.76 |
| LOCATION | L0000378 | VOLUME | 658519.294 | 4183566.776 | 12.82 |
| LOCATION | L0000379 | VOLUME | 658530.727 | 4183558.695 | 12.88 |
| LOCATION | L0000380 | VOLUME | 658542.159 | 4183550.614 | 12.88 |
| LOCATION | L0000381 | VOLUME | 658553.592 | 4183542.533 | 12.89 |
| LOCATION | L0000382 | VOLUME | 658565.024 | 4183534.453 | 12.99 |
| LOCATION | L0000383 | VOLUME | 658576.456 | 4183526.372 | 13.01 |
| LOCATION | L0000384 | VOLUME | 658587.889 | 4183518.291 | 13.05 |
| LOCATION | L0000385 | VOLUME | 658599.321 | 4183510.210 | 13.13 |
| LOCATION | L0000386 | VOLUME | 658610.754 | 4183502.129 | 13.24 |
| LOCATION | L0000387 | VOLUME | 658622.150 | 4183493.998 | 13.22 |
| LOCATION | L0000388 | VOLUME | 658633.510 | 4183485.816 | 13.28 |
| LOCATION | L0000389 | VOLUME | 658644.870 | 4183477.633 | 13.42 |
| LOCATION | L0000390 | VOLUME | 658656.230 | 4183469.451 | 13.50 |
| LOCATION | L0000391 | VOLUME | 658667.590 | 4183461.269 | 13.48 |
| LOCATION | L0000392 | VOLUME | 658678.950 | 4183453.087 | 13.50 |
| LOCATION | L0000393 | VOLUME | 658690.310 | 4183444.905 | 13.61 |
| LOCATION | L0000394 | VOLUME | 658701.670 | 4183436.722 | 13.58 |
| LOCATION | L0000395 | VOLUME | 658713.031 | 4183428.540 | 13.59 |
| LOCATION | L0000396 | VOLUME | 658724.391 | 4183420.358 | 13.63 |
| LOCATION | L0000397 | VOLUME | 658735.663 | 4183412.055 | 13.78 |
| LOCATION | L0000398 | VOLUME | 658746.884 | 4183403.684 | 13.69 |
| LOCATION | L0000399 | VOLUME | 658758.105 | 4183395.313 | 13.70 |
| LOCATION | L0000400 | VOLUME | 658768.818 | 4183386.305 | 13.77 |
| LOCATION | L0000401 | VOLUME | 658779.451 | 4183377.198 | 13.74 |
| LOCATION | L0000402 | VOLUME | 658790.083 | 4183368.090 | 13.63 |
| LOCATION | L0000403 | VOLUME | 658800.716 | 4183358.982 | 13.65 |
| LOCATION | L0000404 | VOLUME | 658811.348 | 4183349.875 | 13.75 |
| LOCATION | L0000405 | VOLUME | 658822.268 | 4183341.120 | 13.73 |
| LOCATION | L0000406 | VOLUME | 658833.344 | 4183332.557 | 13.77 |
| LOCATION | L0000407 | VOLUME | 658844.420 | 4183323.994 | 13.89 |
| LOCATION | L0000408 | VOLUME | 658855.496 | 4183315.431 | 13.97 |
| LOCATION | L0000409 | VOLUME | 658866.572 | 4183306.868 | 13.97 |
| LOCATION | L0000410 | VOLUME | 658877.648 | 4183298.306 | 14.01 |
| LOCATION | L0000411 | VOLUME | 658888.724 | 4183289.743 | 14.45 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000412 | VOLUME | 658899.800 | 4183281.180 | 15.16 |
| LOCATION | L0000413 | VOLUME | 658910.876 | 4183272.617 | 15.24 |
| LOCATION | L0000414 | VOLUME | 658921.952 | 4183264.054 | 15.25 |
| LOCATION | L0000415 | VOLUME | 658933.028 | 4183255.491 | 15.46 |
| LOCATION | L0000416 | VOLUME | 658944.104 | 4183246.928 | 15.39 |
| LOCATION | L0000417 | VOLUME | 658955.180 | 4183238.365 | 14.78 |
| LOCATION | L0000418 | VOLUME | 658966.255 | 4183229.802 | 14.11 |
| LOCATION | L0000419 | VOLUME | 658977.560 | 4183221.550 | 14.10 |
| LOCATION | L0000420 | VOLUME | 658989.025 | 4183213.515 | 14.12 |
| LOCATION | L0000421 | VOLUME | 659000.490 | 4183205.481 | 14.13 |
| LOCATION | L0000422 | VOLUME | 659011.955 | 4183197.447 | 14.13 |
| LOCATION | L0000423 | VOLUME | 659023.421 | 4183189.413 | 14.14 |
| LOCATION | L0000424 | VOLUME | 659034.886 | 4183181.378 | 14.17 |
| LOCATION | L0000425 | VOLUME | 659046.351 | 4183173.344 | 14.16 |
| LOCATION | L0000426 | VOLUME | 659057.816 | 4183165.310 | 14.14 |
| LOCATION | L0000427 | VOLUME | 659069.282 | 4183157.276 | 14.17 |
| LOCATION | L0000428 | VOLUME | 659080.747 | 4183149.242 | 14.20 |
| LOCATION | L0000429 | VOLUME | 659092.212 | 4183141.207 | 14.20 |
| LOCATION | L0000430 | VOLUME | 659103.677 | 4183133.173 | 14.20 |
| LOCATION | L0000431 | VOLUME | 659115.142 | 4183125.139 | 14.22 |
| LOCATION | L0000432 | VOLUME | 659126.608 | 4183117.105 | 14.26 |
| LOCATION | L0000433 | VOLUME | 659138.073 | 4183109.070 | 14.29 |
| LOCATION | L0000434 | VOLUME | 659149.538 | 4183101.036 | 14.28 |
| LOCATION | L0000435 | VOLUME | 659161.003 | 4183093.002 | 14.30 |
| LOCATION | L0000436 | VOLUME | 659172.468 | 4183084.968 | 14.34 |
| LOCATION | L0000437 | VOLUME | 659183.934 | 4183076.933 | 14.37 |
| LOCATION | L0000438 | VOLUME | 659195.399 | 4183068.899 | 14.35 |
| LOCATION | L0000439 | VOLUME | 659206.864 | 4183060.865 | 14.37 |
| LOCATION | L0000440 | VOLUME | 659218.329 | 4183052.831 | 14.40 |
| LOCATION | L0000441 | VOLUME | 659229.795 | 4183044.797 | 14.39 |
| LOCATION | L0000442 | VOLUME | 659241.214 | 4183036.697 | 14.39 |
| LOCATION | L0000443 | VOLUME | 659252.613 | 4183028.569 | 14.43 |
| LOCATION | L0000444 | VOLUME | 659264.012 | 4183020.442 | 14.46 |
| LOCATION | L0000445 | VOLUME | 659275.411 | 4183012.314 | 14.46 |
| LOCATION | L0000446 | VOLUME | 659286.810 | 4183004.186 | 14.49 |
| LOCATION | L0000447 | VOLUME | 659298.210 | 4182996.059 | 14.56 |
| LOCATION | L0000448 | VOLUME | 659309.609 | 4182987.931 | 14.58 |
| LOCATION | L0000449 | VOLUME | 659321.008 | 4182979.804 | 14.54 |
| LOCATION | L0000450 | VOLUME | 659332.407 | 4182971.676 | 14.60 |
| LOCATION | L0000451 | VOLUME | 659343.806 | 4182963.548 | 14.71 |
| LOCATION | L0000452 | VOLUME | 659355.206 | 4182955.421 | 14.74 |
| LOCATION | L0000453 | VOLUME | 659366.605 | 4182947.293 | 14.77 |
| LOCATION | L0000454 | VOLUME | 659378.004 | 4182939.165 | 14.93 |
| LOCATION | L0000455 | VOLUME | 659389.403 | 4182931.038 | 15.07 |
| LOCATION | L0000456 | VOLUME | 659400.802 | 4182922.910 | 15.07 |
| LOCATION | L0000457 | VOLUME | 659412.202 | 4182914.783 | 15.09 |
| LOCATION | L0000458 | VOLUME | 659423.601 | 4182906.655 | 15.25 |
| LOCATION | L0000459 | VOLUME | 659435.000 | 4182898.527 | 15.37 |
| LOCATION | L0000460 | VOLUME | 659446.399 | 4182890.400 | 15.37 |
| LOCATION | L0000461 | VOLUME | 659457.798 | 4182882.272 | 15.50 |
| LOCATION | L0000462 | VOLUME | 659469.198 | 4182874.144 | 15.68 |
| LOCATION | L0000463 | VOLUME | 659480.597 | 4182866.017 | 15.63 |
| LOCATION | L0000464 | VOLUME | 659491.996 | 4182857.889 | 15.54 |
| LOCATION | L0000465 | VOLUME | 659503.395 | 4182849.761 | 15.61 |
| LOCATION | L0000466 | VOLUME | 659514.794 | 4182841.634 | 15.49 |
| LOCATION | L0000467 | VOLUME | 659526.193 | 4182833.506 | 15.26 |
| LOCATION | L0000468 | VOLUME | 659537.593 | 4182825.379 | 14.94 |
| LOCATION | L0000469 | VOLUME | 659548.992 | 4182817.251 | 14.80 |
| LOCATION | L0000470 | VOLUME | 659560.391 | 4182809.123 | 14.72 |
| LOCATION | L0000471 | VOLUME | 659571.790 | 4182800.996 | 14.56 |
| LOCATION | L0000472 | VOLUME | 659583.189 | 4182792.868 | 14.60 |
| LOCATION | L0000473 | VOLUME | 659594.589 | 4182784.740 | 14.74 |
| LOCATION | L0000474 | VOLUME | 659605.988 | 4182776.613 | 14.70 |
| LOCATION | L0000475 | VOLUME | 659617.387 | 4182768.485 | 14.64 |
| LOCATION | L0000476 | VOLUME | 659628.786 | 4182760.358 | 14.56 |
| LOCATION | L0000477 | VOLUME | 659640.185 | 4182752.230 | 14.27 |



|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000478 | VOLUME | 659651.585 | 4182744.102 | 14.13 |
| LOCATION | L0000479 | VOLUME | 659662.984 | 4182735.975 | 14.09 |
| LOCATION | L0000480 | VOLUME | 659674.383 | 4182727.847 | 14.10 |
| LOCATION | L0000481 | VOLUME | 659685.782 | 4182719.719 | 14.09 |
| LOCATION | L0000482 | VOLUME | 659697.181 | 4182711.592 | 14.03 |
| LOCATION | L0000483 | VOLUME | 659708.581 | 4182703.464 | 14.02 |
| LOCATION | L0000484 | VOLUME | 659719.980 | 4182695.337 | 14.01 |
| LOCATION | L0000485 | VOLUME | 659731.379 | 4182687.209 | 13.97 |
| LOCATION | L0000486 | VOLUME | 659742.778 | 4182679.081 | 13.93 |
| LOCATION | L0000487 | VOLUME | 659754.177 | 4182670.954 | 13.91 |
| LOCATION | L0000488 | VOLUME | 659765.577 | 4182662.826 | 13.93 |
| LOCATION | L0000489 | VOLUME | 659776.976 | 4182654.698 | 13.92 |
| LOCATION | L0000490 | VOLUME | 659788.375 | 4182646.571 | 13.93 |
| LOCATION | L0000491 | VOLUME | 659799.774 | 4182638.443 | 13.94 |
| LOCATION | L0000492 | VOLUME | 659811.173 | 4182630.315 | 13.95 |
| LOCATION | L0000493 | VOLUME | 659822.573 | 4182622.188 | 13.94 |
| LOCATION | L0000494 | VOLUME | 659833.972 | 4182614.060 | 13.91 |
| LOCATION | L0000495 | VOLUME | 659845.371 | 4182605.933 | 13.90 |
| LOCATION | L0000496 | VOLUME | 659856.770 | 4182597.805 | 13.91 |
| LOCATION | L0000497 | VOLUME | 659868.169 | 4182589.677 | 13.94 |
| LOCATION | L0000498 | VOLUME | 659879.568 | 4182581.550 | 13.93 |
| LOCATION | L0000499 | VOLUME | 659890.968 | 4182573.422 | 13.89 |
| LOCATION | L0000500 | VOLUME | 659902.367 | 4182565.294 | 13.91 |
| LOCATION | L0000501 | VOLUME | 659913.766 | 4182557.167 | 13.89 |
| LOCATION | L0000502 | VOLUME | 659925.165 | 4182549.039 | 13.90 |
| LOCATION | L0000503 | VOLUME | 659936.564 | 4182540.912 | 13.92 |
| LOCATION | L0000504 | VOLUME | 659947.964 | 4182532.784 | 13.92 |
| LOCATION | L0000505 | VOLUME | 659959.363 | 4182524.656 | 13.94 |
| LOCATION | L0000506 | VOLUME | 659970.762 | 4182516.529 | 13.97 |
| LOCATION | L0000507 | VOLUME | 659982.161 | 4182508.401 | 14.07 |
| LOCATION | L0000508 | VOLUME | 659993.560 | 4182500.273 | 14.15 |
| LOCATION | L0000509 | VOLUME | 660004.960 | 4182492.146 | 14.18 |
| LOCATION | L0000510 | VOLUME | 660016.359 | 4182484.018 | 14.15 |
| LOCATION | L0000511 | VOLUME | 660027.758 | 4182475.890 | 14.09 |
| LOCATION | L0000512 | VOLUME | 660039.157 | 4182467.763 | 14.13 |
| LOCATION | L0000513 | VOLUME | 660050.556 | 4182459.635 | 14.11 |
| LOCATION | L0000514 | VOLUME | 660061.956 | 4182451.508 | 14.11 |
| LOCATION | L0000515 | VOLUME | 660073.355 | 4182443.380 | 14.16 |
| LOCATION | L0000516 | VOLUME | 660084.754 | 4182435.252 | 14.19 |
| LOCATION | L0000517 | VOLUME | 660096.153 | 4182427.125 | 14.19 |
| LOCATION | L0000518 | VOLUME | 660107.552 | 4182418.997 | 14.21 |
| LOCATION | L0000519 | VOLUME | 660118.952 | 4182410.869 | 14.26 |
| LOCATION | L0000520 | VOLUME | 660130.351 | 4182402.742 | 14.29 |
| LOCATION | L0000521 | VOLUME | 660141.750 | 4182394.614 | 14.31 |
| LOCATION | L0000522 | VOLUME | 660153.149 | 4182386.487 | 14.32 |
| LOCATION | L0000523 | VOLUME | 660164.548 | 4182378.359 | 14.34 |
| LOCATION | L0000524 | VOLUME | 660175.948 | 4182370.231 | 14.33 |
| LOCATION | L0000525 | VOLUME | 660187.347 | 4182362.104 | 14.23 |
| LOCATION | L0000526 | VOLUME | 660198.746 | 4182353.976 | 14.20 |
| LOCATION | L0000527 | VOLUME | 660210.145 | 4182345.848 | 14.10 |
| LOCATION | L0000528 | VOLUME | 660221.544 | 4182337.721 | 14.16 |
| LOCATION | L0000529 | VOLUME | 660232.944 | 4182329.593 | 14.28 |
| LOCATION | L0000530 | VOLUME | 660244.343 | 4182321.466 | 14.27 |
| LOCATION | L0000531 | VOLUME | 660255.742 | 4182313.338 | 14.15 |
| LOCATION | L0000532 | VOLUME | 660267.141 | 4182305.210 | 14.12 |
| LOCATION | L0000533 | VOLUME | 660278.540 | 4182297.083 | 14.07 |
| LOCATION | L0000534 | VOLUME | 660289.939 | 4182288.955 | 13.96 |
| LOCATION | L0000535 | VOLUME | 660301.339 | 4182280.827 | 14.09 |
| LOCATION | L0000536 | VOLUME | 660312.738 | 4182272.700 | 14.37 |
| LOCATION | L0000537 | VOLUME | 660324.137 | 4182264.572 | 14.38 |
| LOCATION | L0000538 | VOLUME | 660335.536 | 4182256.444 | 15.02 |
| LOCATION | L0000539 | VOLUME | 660346.935 | 4182248.317 | 15.52 |
| LOCATION | L0000540 | VOLUME | 660349.600 | 4182256.649 | 15.69 |
| LOCATION | L0000541 | VOLUME | 660349.260 | 4182270.645 | 15.81 |
| LOCATION | L0000542 | VOLUME | 660348.920 | 4182284.641 | 15.94 |
| LOCATION | L0000543 | VOLUME | 660348.580 | 4182298.637 | 16.08 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000544 | VOLUME | 660348.240 | 4182312.633 | 15.96 |
| LOCATION | L0000545 | VOLUME | 660347.900 | 4182326.629 | 15.67 |
| LOCATION | L0000546 | VOLUME | 660347.559 | 4182340.624 | 15.34 |
| LOCATION | L0000547 | VOLUME | 660347.219 | 4182354.620 | 14.96 |
| LOCATION | L0000548 | VOLUME | 660346.879 | 4182368.616 | 14.74 |
| LOCATION | L0000549 | VOLUME | 660346.539 | 4182382.612 | 15.21 |
| LOCATION | L0000550 | VOLUME | 660346.199 | 4182396.608 | 15.68 |
| LOCATION | L0000551 | VOLUME | 660345.859 | 4182410.604 | 16.25 |
| LOCATION | L0000552 | VOLUME | 660345.518 | 4182424.600 | 16.83 |
| LOCATION | L0000553 | VOLUME | 660345.178 | 4182438.596 | 16.62 |
| LOCATION | L0000554 | VOLUME | 660344.838 | 4182452.591 | 16.21 |
| LOCATION | L0000555 | VOLUME | 660344.498 | 4182466.587 | 15.97 |
| LOCATION | L0000556 | VOLUME | 660344.158 | 4182480.583 | 15.84 |
| LOCATION | L0000557 | VOLUME | 660343.817 | 4182494.579 | 15.69 |
| LOCATION | L0000558 | VOLUME | 660343.477 | 4182508.575 | 15.51 |
| LOCATION | L0000559 | VOLUME | 660343.137 | 4182522.571 | 15.29 |
| LOCATION | L0000560 | VOLUME | 660342.797 | 4182536.567 | 14.89 |
| LOCATION | L0000561 | VOLUME | 660342.457 | 4182550.562 | 14.49 |
| LOCATION | L0000562 | VOLUME | 660342.117 | 4182564.558 | 14.40 |
| LOCATION | L0000563 | VOLUME | 660341.776 | 4182578.554 | 14.32 |
| LOCATION | L0000564 | VOLUME | 660341.436 | 4182592.550 | 14.29 |
| LOCATION | L0000565 | VOLUME | 660341.096 | 4182606.546 | 14.28 |
| LOCATION | L0000566 | VOLUME | 660340.756 | 4182620.542 | 14.33 |
| LOCATION | L0000567 | VOLUME | 660340.416 | 4182634.538 | 14.40 |
| LOCATION | L0000568 | VOLUME | 660340.076 | 4182648.534 | 14.49 |
| LOCATION | L0000569 | VOLUME | 660339.735 | 4182662.529 | 14.58 |

\*\* End of LINE VOLUME Source ID = SLINE5

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE6

\*\* DESCRSRC Spreckels N 28.89%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001102

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 10

\*\* 658772.612, 4184225.561, 13.02, 3.49, 6.51

\*\* 658768.776, 4184260.085, 12.95, 3.49, 6.51

\*\* 658753.432, 4184316.666, 13.13, 3.49, 6.51

\*\* 658716.030, 4184401.059, 12.64, 3.49, 6.51

\*\* 658689.658, 4184454.764, 12.75, 3.49, 6.51

\*\* 658671.916, 4184511.345, 12.75, 3.49, 6.51

\*\* 658660.408, 4184564.091, 12.47, 3.49, 6.51

\*\* 658658.010, 4184589.504, 12.49, 3.49, 6.51

\*\* 658649.859, 4184721.368, 12.35, 3.49, 6.51

\*\* 658639.310, 4184864.261, 13.14, 3.49, 6.51

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000570 | VOLUME | 658771.839 | 4184232.518 | 12.95 |
| LOCATION | L0000571 | VOLUME | 658770.293 | 4184246.432 | 12.93 |
| LOCATION | L0000572 | VOLUME | 658768.707 | 4184260.339 | 12.90 |
| LOCATION | L0000573 | VOLUME | 658765.043 | 4184273.851 | 12.94 |
| LOCATION | L0000574 | VOLUME | 658761.379 | 4184287.363 | 13.00 |
| LOCATION | L0000575 | VOLUME | 658757.714 | 4184300.875 | 13.04 |
| LOCATION | L0000576 | VOLUME | 658754.050 | 4184314.387 | 13.07 |
| LOCATION | L0000577 | VOLUME | 658748.716 | 4184327.306 | 13.04 |
| LOCATION | L0000578 | VOLUME | 658743.044 | 4184340.106 | 12.90 |
| LOCATION | L0000579 | VOLUME | 658737.371 | 4184352.905 | 12.93 |
| LOCATION | L0000580 | VOLUME | 658731.699 | 4184365.704 | 12.91 |
| LOCATION | L0000581 | VOLUME | 658726.027 | 4184378.504 | 12.88 |
| LOCATION | L0000582 | VOLUME | 658720.354 | 4184391.303 | 12.77 |
| LOCATION | L0000583 | VOLUME | 658714.563 | 4184404.047 | 12.67 |
| LOCATION | L0000584 | VOLUME | 658708.392 | 4184416.614 | 12.72 |
| LOCATION | L0000585 | VOLUME | 658702.221 | 4184429.180 | 12.73 |
| LOCATION | L0000586 | VOLUME | 658696.050 | 4184441.747 | 12.75 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000587 | VOLUME | 658689.879 | 4184454.313 | 12.73 |
| LOCATION | L0000588 | VOLUME | 658685.619 | 4184467.644 | 12.78 |
| LOCATION | L0000589 | VOLUME | 658681.430 | 4184481.002 | 12.83 |
| LOCATION | L0000590 | VOLUME | 658677.242 | 4184494.361 | 12.85 |
| LOCATION | L0000591 | VOLUME | 658673.053 | 4184507.720 | 12.81 |
| LOCATION | L0000592 | VOLUME | 658669.742 | 4184521.311 | 12.74 |
| LOCATION | L0000593 | VOLUME | 658666.757 | 4184534.989 | 12.62 |
| LOCATION | L0000594 | VOLUME | 658663.773 | 4184548.668 | 12.48 |
| LOCATION | L0000595 | VOLUME | 658660.789 | 4184562.346 | 12.44 |
| LOCATION | L0000596 | VOLUME | 658659.261 | 4184576.251 | 12.46 |
| LOCATION | L0000597 | VOLUME | 658657.968 | 4184590.191 | 12.47 |
| LOCATION | L0000598 | VOLUME | 658657.104 | 4184604.164 | 12.46 |
| LOCATION | L0000599 | VOLUME | 658656.240 | 4184618.137 | 12.45 |
| LOCATION | L0000600 | VOLUME | 658655.377 | 4184632.111 | 12.44 |
| LOCATION | L0000601 | VOLUME | 658654.513 | 4184646.084 | 12.44 |
| LOCATION | L0000602 | VOLUME | 658653.649 | 4184660.057 | 12.38 |
| LOCATION | L0000603 | VOLUME | 658652.785 | 4184674.030 | 12.30 |
| LOCATION | L0000604 | VOLUME | 658651.921 | 4184688.004 | 12.29 |
| LOCATION | L0000605 | VOLUME | 658651.058 | 4184701.977 | 12.29 |
| LOCATION | L0000606 | VOLUME | 658650.194 | 4184715.950 | 12.35 |
| LOCATION | L0000607 | VOLUME | 658649.228 | 4184729.917 | 12.44 |
| LOCATION | L0000608 | VOLUME | 658648.197 | 4184743.879 | 12.54 |
| LOCATION | L0000609 | VOLUME | 658647.166 | 4184757.841 | 12.62 |
| LOCATION | L0000610 | VOLUME | 658646.135 | 4184771.803 | 12.70 |
| LOCATION | L0000611 | VOLUME | 658645.105 | 4184785.765 | 12.71 |
| LOCATION | L0000612 | VOLUME | 658644.074 | 4184799.727 | 12.73 |
| LOCATION | L0000613 | VOLUME | 658643.043 | 4184813.689 | 12.84 |
| LOCATION | L0000614 | VOLUME | 658642.012 | 4184827.651 | 12.95 |
| LOCATION | L0000615 | VOLUME | 658640.982 | 4184841.613 | 13.04 |
| LOCATION | L0000616 | VOLUME | 658639.951 | 4184855.575 | 13.12 |

\*\* End of LINE VOLUME Source ID = SLINE6

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE7

\*\* DESCRSRC Yosemite W 3.4%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.156E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 6

\*\* 658639.573, 4184872.135, 13.12, 3.49, 6.51

\*\* 658211.310, 4184859.764, 12.14, 3.49, 6.51

\*\* 658112.344, 4184857.408, 11.88, 3.49, 6.51

\*\* 657441.059, 4184844.749, 12.21, 3.49, 6.51

\*\* 657113.526, 4184837.183, 11.71, 3.49, 6.51

\*\* 657034.187, 4184834.555, 11.56, 3.49, 6.51

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000617 | VOLUME | 658632.575 | 4184871.932 | 13.12 |
| LOCATION | L0000618 | VOLUME | 658618.581 | 4184871.528 | 13.05 |
| LOCATION | L0000619 | VOLUME | 658604.587 | 4184871.124 | 12.96 |
| LOCATION | L0000620 | VOLUME | 658590.593 | 4184870.720 | 12.83 |
| LOCATION | L0000621 | VOLUME | 658576.599 | 4184870.316 | 12.71 |
| LOCATION | L0000622 | VOLUME | 658562.605 | 4184869.911 | 12.60 |
| LOCATION | L0000623 | VOLUME | 658548.610 | 4184869.507 | 12.47 |
| LOCATION | L0000624 | VOLUME | 658534.616 | 4184869.103 | 12.36 |
| LOCATION | L0000625 | VOLUME | 658520.622 | 4184868.699 | 12.33 |
| LOCATION | L0000626 | VOLUME | 658506.628 | 4184868.294 | 12.29 |
| LOCATION | L0000627 | VOLUME | 658492.634 | 4184867.890 | 12.22 |
| LOCATION | L0000628 | VOLUME | 658478.640 | 4184867.486 | 12.15 |
| LOCATION | L0000629 | VOLUME | 658464.646 | 4184867.082 | 12.08 |
| LOCATION | L0000630 | VOLUME | 658450.651 | 4184866.677 | 12.10 |
| LOCATION | L0000631 | VOLUME | 658436.657 | 4184866.273 | 12.12 |
| LOCATION | L0000632 | VOLUME | 658422.663 | 4184865.869 | 12.12 |
| LOCATION | L0000633 | VOLUME | 658408.669 | 4184865.465 | 12.11 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000634 | VOLUME | 658394.675 | 4184865.061 | 12.08 |
| LOCATION | L0000635 | VOLUME | 658380.681 | 4184864.656 | 12.08 |
| LOCATION | L0000636 | VOLUME | 658366.686 | 4184864.252 | 12.10 |
| LOCATION | L0000637 | VOLUME | 658352.692 | 4184863.848 | 12.09 |
| LOCATION | L0000638 | VOLUME | 658338.698 | 4184863.444 | 12.08 |
| LOCATION | L0000639 | VOLUME | 658324.704 | 4184863.039 | 12.06 |
| LOCATION | L0000640 | VOLUME | 658310.710 | 4184862.635 | 12.02 |
| LOCATION | L0000641 | VOLUME | 658296.716 | 4184862.231 | 11.98 |
| LOCATION | L0000642 | VOLUME | 658282.721 | 4184861.827 | 11.99 |
| LOCATION | L0000643 | VOLUME | 658268.727 | 4184861.422 | 12.03 |
| LOCATION | L0000644 | VOLUME | 658254.733 | 4184861.018 | 12.10 |
| LOCATION | L0000645 | VOLUME | 658240.739 | 4184860.614 | 12.16 |
| LOCATION | L0000646 | VOLUME | 658226.745 | 4184860.210 | 12.16 |
| LOCATION | L0000647 | VOLUME | 658212.751 | 4184859.806 | 12.16 |
| LOCATION | L0000648 | VOLUME | 658198.755 | 4184859.465 | 12.16 |
| LOCATION | L0000649 | VOLUME | 658184.759 | 4184859.132 | 12.15 |
| LOCATION | L0000650 | VOLUME | 658170.763 | 4184858.798 | 12.14 |
| LOCATION | L0000651 | VOLUME | 658156.767 | 4184858.465 | 12.06 |
| LOCATION | L0000652 | VOLUME | 658142.771 | 4184858.132 | 11.97 |
| LOCATION | L0000653 | VOLUME | 658128.775 | 4184857.799 | 11.90 |
| LOCATION | L0000654 | VOLUME | 658114.779 | 4184857.466 | 11.85 |
| LOCATION | L0000655 | VOLUME | 658100.781 | 4184857.190 | 11.84 |
| LOCATION | L0000656 | VOLUME | 658086.784 | 4184856.926 | 11.86 |
| LOCATION | L0000657 | VOLUME | 658072.786 | 4184856.662 | 11.88 |
| LOCATION | L0000658 | VOLUME | 658058.789 | 4184856.398 | 11.93 |
| LOCATION | L0000659 | VOLUME | 658044.791 | 4184856.134 | 11.98 |
| LOCATION | L0000660 | VOLUME | 658030.794 | 4184855.870 | 12.06 |
| LOCATION | L0000661 | VOLUME | 658016.796 | 4184855.606 | 12.12 |
| LOCATION | L0000662 | VOLUME | 658002.799 | 4184855.342 | 12.14 |
| LOCATION | L0000663 | VOLUME | 657988.801 | 4184855.078 | 12.14 |
| LOCATION | L0000664 | VOLUME | 657974.804 | 4184854.814 | 12.14 |
| LOCATION | L0000665 | VOLUME | 657960.806 | 4184854.550 | 12.15 |
| LOCATION | L0000666 | VOLUME | 657946.809 | 4184854.286 | 12.15 |
| LOCATION | L0000667 | VOLUME | 657932.811 | 4184854.022 | 12.14 |
| LOCATION | L0000668 | VOLUME | 657918.814 | 4184853.758 | 12.12 |
| LOCATION | L0000669 | VOLUME | 657904.816 | 4184853.494 | 12.09 |
| LOCATION | L0000670 | VOLUME | 657890.819 | 4184853.230 | 12.04 |
| LOCATION | L0000671 | VOLUME | 657876.821 | 4184852.966 | 11.97 |
| LOCATION | L0000672 | VOLUME | 657862.824 | 4184852.702 | 11.94 |
| LOCATION | L0000673 | VOLUME | 657848.826 | 4184852.438 | 11.92 |
| LOCATION | L0000674 | VOLUME | 657834.829 | 4184852.175 | 11.88 |
| LOCATION | L0000675 | VOLUME | 657820.831 | 4184851.911 | 11.82 |
| LOCATION | L0000676 | VOLUME | 657806.834 | 4184851.647 | 11.75 |
| LOCATION | L0000677 | VOLUME | 657792.836 | 4184851.383 | 11.69 |
| LOCATION | L0000678 | VOLUME | 657778.839 | 4184851.119 | 11.63 |
| LOCATION | L0000679 | VOLUME | 657764.841 | 4184850.855 | 11.63 |
| LOCATION | L0000680 | VOLUME | 657750.843 | 4184850.591 | 11.64 |
| LOCATION | L0000681 | VOLUME | 657736.846 | 4184850.327 | 11.69 |
| LOCATION | L0000682 | VOLUME | 657722.848 | 4184850.063 | 11.77 |
| LOCATION | L0000683 | VOLUME | 657708.851 | 4184849.799 | 11.87 |
| LOCATION | L0000684 | VOLUME | 657694.853 | 4184849.535 | 12.00 |
| LOCATION | L0000685 | VOLUME | 657680.856 | 4184849.271 | 12.14 |
| LOCATION | L0000686 | VOLUME | 657666.858 | 4184849.007 | 12.29 |
| LOCATION | L0000687 | VOLUME | 657652.861 | 4184848.743 | 12.43 |
| LOCATION | L0000688 | VOLUME | 657638.863 | 4184848.479 | 12.54 |
| LOCATION | L0000689 | VOLUME | 657624.866 | 4184848.215 | 12.63 |
| LOCATION | L0000690 | VOLUME | 657610.868 | 4184847.951 | 12.70 |
| LOCATION | L0000691 | VOLUME | 657596.871 | 4184847.687 | 12.72 |
| LOCATION | L0000692 | VOLUME | 657582.873 | 4184847.423 | 12.73 |
| LOCATION | L0000693 | VOLUME | 657568.876 | 4184847.160 | 12.63 |
| LOCATION | L0000694 | VOLUME | 657554.878 | 4184846.896 | 12.53 |
| LOCATION | L0000695 | VOLUME | 657540.881 | 4184846.632 | 12.47 |
| LOCATION | L0000696 | VOLUME | 657526.883 | 4184846.368 | 12.41 |
| LOCATION | L0000697 | VOLUME | 657512.886 | 4184846.104 | 12.36 |
| LOCATION | L0000698 | VOLUME | 657498.888 | 4184845.840 | 12.32 |
| LOCATION | L0000699 | VOLUME | 657484.891 | 4184845.576 | 12.28 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000700 | VOLUME | 657470.893 | 4184845.312 | 12.25 |
| LOCATION | L0000701 | VOLUME | 657456.896 | 4184845.048 | 12.23 |
| LOCATION | L0000702 | VOLUME | 657442.898 | 4184844.784 | 12.22 |
| LOCATION | L0000703 | VOLUME | 657428.902 | 4184844.468 | 12.19 |
| LOCATION | L0000704 | VOLUME | 657414.906 | 4184844.145 | 12.16 |
| LOCATION | L0000705 | VOLUME | 657400.909 | 4184843.822 | 12.16 |
| LOCATION | L0000706 | VOLUME | 657386.913 | 4184843.498 | 12.16 |
| LOCATION | L0000707 | VOLUME | 657372.917 | 4184843.175 | 12.07 |
| LOCATION | L0000708 | VOLUME | 657358.920 | 4184842.852 | 11.99 |
| LOCATION | L0000709 | VOLUME | 657344.924 | 4184842.528 | 11.96 |
| LOCATION | L0000710 | VOLUME | 657330.928 | 4184842.205 | 11.94 |
| LOCATION | L0000711 | VOLUME | 657316.932 | 4184841.882 | 11.93 |
| LOCATION | L0000712 | VOLUME | 657302.935 | 4184841.558 | 11.92 |
| LOCATION | L0000713 | VOLUME | 657288.939 | 4184841.235 | 11.90 |
| LOCATION | L0000714 | VOLUME | 657274.943 | 4184840.912 | 11.89 |
| LOCATION | L0000715 | VOLUME | 657260.947 | 4184840.588 | 11.88 |
| LOCATION | L0000716 | VOLUME | 657246.950 | 4184840.265 | 11.86 |
| LOCATION | L0000717 | VOLUME | 657232.954 | 4184839.942 | 11.85 |
| LOCATION | L0000718 | VOLUME | 657218.958 | 4184839.618 | 11.83 |
| LOCATION | L0000719 | VOLUME | 657204.962 | 4184839.295 | 11.81 |
| LOCATION | L0000720 | VOLUME | 657190.965 | 4184838.972 | 11.79 |
| LOCATION | L0000721 | VOLUME | 657176.969 | 4184838.648 | 11.78 |
| LOCATION | L0000722 | VOLUME | 657162.973 | 4184838.325 | 11.76 |
| LOCATION | L0000723 | VOLUME | 657148.977 | 4184838.002 | 11.75 |
| LOCATION | L0000724 | VOLUME | 657134.980 | 4184837.678 | 11.73 |
| LOCATION | L0000725 | VOLUME | 657120.984 | 4184837.355 | 11.72 |
| LOCATION | L0000726 | VOLUME | 657106.990 | 4184836.966 | 11.70 |
| LOCATION | L0000727 | VOLUME | 657092.997 | 4184836.503 | 11.67 |
| LOCATION | L0000728 | VOLUME | 657079.005 | 4184836.039 | 11.65 |
| LOCATION | L0000729 | VOLUME | 657065.013 | 4184835.576 | 11.63 |
| LOCATION | L0000730 | VOLUME | 657051.020 | 4184835.113 | 11.59 |
| LOCATION | L0000731 | VOLUME | 657037.028 | 4184834.649 | 11.56 |

```

** End of LINE VOLUME Source ID = SLINE7
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Yosemite E 24.22%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 9.651E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 658644.130, 4184872.122, 13.12, 3.49, 6.51
** 659056.505, 4184880.713, 13.12, 3.49, 6.51
** 659238.481, 4184890.866, 14.89, 3.49, 6.51
** 659332.984, 4184893.990, 13.61, 3.49, 6.51
** -----

```

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000732 | VOLUME | 658651.128 | 4184872.267 | 13.11 |
| LOCATION | L0000733 | VOLUME | 658665.125 | 4184872.559 | 13.11 |
| LOCATION | L0000734 | VOLUME | 658679.122 | 4184872.851 | 13.14 |
| LOCATION | L0000735 | VOLUME | 658693.119 | 4184873.142 | 13.12 |
| LOCATION | L0000736 | VOLUME | 658707.116 | 4184873.434 | 13.08 |
| LOCATION | L0000737 | VOLUME | 658721.113 | 4184873.725 | 13.07 |
| LOCATION | L0000738 | VOLUME | 658735.110 | 4184874.017 | 13.07 |
| LOCATION | L0000739 | VOLUME | 658749.107 | 4184874.309 | 13.06 |
| LOCATION | L0000740 | VOLUME | 658763.104 | 4184874.600 | 13.06 |
| LOCATION | L0000741 | VOLUME | 658777.101 | 4184874.892 | 13.05 |
| LOCATION | L0000742 | VOLUME | 658791.098 | 4184875.183 | 13.00 |
| LOCATION | L0000743 | VOLUME | 658805.095 | 4184875.475 | 12.92 |
| LOCATION | L0000744 | VOLUME | 658819.092 | 4184875.767 | 12.84 |
| LOCATION | L0000745 | VOLUME | 658833.089 | 4184876.058 | 12.77 |
| LOCATION | L0000746 | VOLUME | 658847.086 | 4184876.350 | 12.78 |
| LOCATION | L0000747 | VOLUME | 658861.083 | 4184876.641 | 12.79 |
| LOCATION | L0000748 | VOLUME | 658875.080 | 4184876.933 | 12.82 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000749 | VOLUME | 658889.076 | 4184877.225 | 12.89 |
| LOCATION | L0000750 | VOLUME | 658903.073 | 4184877.516 | 12.98 |
| LOCATION | L0000751 | VOLUME | 658917.070 | 4184877.808 | 13.04 |
| LOCATION | L0000752 | VOLUME | 658931.067 | 4184878.099 | 13.08 |
| LOCATION | L0000753 | VOLUME | 658945.064 | 4184878.391 | 13.08 |
| LOCATION | L0000754 | VOLUME | 658959.061 | 4184878.683 | 13.08 |
| LOCATION | L0000755 | VOLUME | 658973.058 | 4184878.974 | 13.08 |
| LOCATION | L0000756 | VOLUME | 658987.055 | 4184879.266 | 13.12 |
| LOCATION | L0000757 | VOLUME | 659001.052 | 4184879.557 | 13.16 |
| LOCATION | L0000758 | VOLUME | 659015.049 | 4184879.849 | 13.14 |
| LOCATION | L0000759 | VOLUME | 659029.046 | 4184880.141 | 13.12 |
| LOCATION | L0000760 | VOLUME | 659043.043 | 4184880.432 | 13.11 |
| LOCATION | L0000761 | VOLUME | 659057.039 | 4184880.742 | 13.14 |
| LOCATION | L0000762 | VOLUME | 659071.018 | 4184881.522 | 13.19 |
| LOCATION | L0000763 | VOLUME | 659084.996 | 4184882.302 | 13.23 |
| LOCATION | L0000764 | VOLUME | 659098.974 | 4184883.082 | 13.26 |
| LOCATION | L0000765 | VOLUME | 659112.952 | 4184883.862 | 13.31 |
| LOCATION | L0000766 | VOLUME | 659126.931 | 4184884.642 | 13.37 |
| LOCATION | L0000767 | VOLUME | 659140.909 | 4184885.422 | 13.43 |
| LOCATION | L0000768 | VOLUME | 659154.887 | 4184886.202 | 13.47 |
| LOCATION | L0000769 | VOLUME | 659168.865 | 4184886.982 | 13.51 |
| LOCATION | L0000770 | VOLUME | 659182.844 | 4184887.762 | 13.44 |
| LOCATION | L0000771 | VOLUME | 659196.822 | 4184888.542 | 13.34 |
| LOCATION | L0000772 | VOLUME | 659210.800 | 4184889.321 | 13.61 |
| LOCATION | L0000773 | VOLUME | 659224.778 | 4184890.101 | 13.97 |
| LOCATION | L0000774 | VOLUME | 659238.757 | 4184890.875 | 14.61 |
| LOCATION | L0000775 | VOLUME | 659252.749 | 4184891.338 | 14.74 |
| LOCATION | L0000776 | VOLUME | 659266.742 | 4184891.800 | 14.38 |
| LOCATION | L0000777 | VOLUME | 659280.734 | 4184892.263 | 13.88 |
| LOCATION | L0000778 | VOLUME | 659294.726 | 4184892.725 | 13.33 |
| LOCATION | L0000779 | VOLUME | 659308.719 | 4184893.188 | 13.45 |
| LOCATION | L0000780 | VOLUME | 659322.711 | 4184893.650 | 13.54 |

```

** End of LINE VOLUME Source ID = SLINE8
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Spreckels N 1.27%
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.88E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 658638.947, 4184879.523, 13.10, 3.49, 4.00
** 658625.429, 4185063.914, 12.73, 3.49, 4.00
** 658618.497, 4185164.427, 12.90, 3.49, 4.00
** 658612.567, 4185270.924, 13.09, 3.49, 4.00
** -----
LOCATION L0000781      VOLUME 658638.633 4184883.806 13.09
LOCATION L0000782      VOLUME 658638.005 4184892.373 13.07
LOCATION L0000783      VOLUME 658637.377 4184900.940 13.05
LOCATION L0000784      VOLUME 658636.749 4184909.508 13.02
LOCATION L0000785      VOLUME 658636.121 4184918.075 13.00
LOCATION L0000786      VOLUME 658635.493 4184926.642 12.96
LOCATION L0000787      VOLUME 658634.865 4184935.209 12.89
LOCATION L0000788      VOLUME 658634.237 4184943.776 12.82
LOCATION L0000789      VOLUME 658633.609 4184952.343 12.75
LOCATION L0000790      VOLUME 658632.981 4184960.910 12.71
LOCATION L0000791      VOLUME 658632.352 4184969.477 12.67
LOCATION L0000792      VOLUME 658631.724 4184978.044 12.63
LOCATION L0000793      VOLUME 658631.096 4184986.611 12.61
LOCATION L0000794      VOLUME 658630.468 4184995.178 12.64
LOCATION L0000795      VOLUME 658629.840 4185003.745 12.67
LOCATION L0000796      VOLUME 658629.212 4185012.312 12.69
LOCATION L0000797      VOLUME 658628.584 4185020.879 12.71

```

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000798 | VOLUME | 658627.956 | 4185029.446 | 12.73 |
| LOCATION | L0000799 | VOLUME | 658627.328 | 4185038.013 | 12.74 |
| LOCATION | L0000800 | VOLUME | 658626.700 | 4185046.580 | 12.75 |
| LOCATION | L0000801 | VOLUME | 658626.072 | 4185055.147 | 12.73 |
| LOCATION | L0000802 | VOLUME | 658625.444 | 4185063.714 | 12.71 |
| LOCATION | L0000803 | VOLUME | 658624.852 | 4185072.283 | 12.68 |
| LOCATION | L0000804 | VOLUME | 658624.261 | 4185080.853 | 12.69 |
| LOCATION | L0000805 | VOLUME | 658623.670 | 4185089.423 | 12.72 |
| LOCATION | L0000806 | VOLUME | 658623.079 | 4185097.992 | 12.75 |
| LOCATION | L0000807 | VOLUME | 658622.488 | 4185106.562 | 12.79 |
| LOCATION | L0000808 | VOLUME | 658621.897 | 4185115.132 | 12.81 |
| LOCATION | L0000809 | VOLUME | 658621.306 | 4185123.701 | 12.82 |
| LOCATION | L0000810 | VOLUME | 658620.715 | 4185132.271 | 12.84 |
| LOCATION | L0000811 | VOLUME | 658620.124 | 4185140.840 | 12.86 |
| LOCATION | L0000812 | VOLUME | 658619.533 | 4185149.410 | 12.88 |
| LOCATION | L0000813 | VOLUME | 658618.942 | 4185157.980 | 12.90 |
| LOCATION | L0000814 | VOLUME | 658618.379 | 4185166.551 | 12.93 |
| LOCATION | L0000815 | VOLUME | 658617.902 | 4185175.128 | 12.95 |
| LOCATION | L0000816 | VOLUME | 658617.424 | 4185183.705 | 12.97 |
| LOCATION | L0000817 | VOLUME | 658616.946 | 4185192.281 | 12.99 |
| LOCATION | L0000818 | VOLUME | 658616.469 | 4185200.858 | 13.01 |
| LOCATION | L0000819 | VOLUME | 658615.991 | 4185209.435 | 13.03 |
| LOCATION | L0000820 | VOLUME | 658615.513 | 4185218.011 | 13.05 |
| LOCATION | L0000821 | VOLUME | 658615.036 | 4185226.588 | 13.07 |
| LOCATION | L0000822 | VOLUME | 658614.558 | 4185235.165 | 13.07 |
| LOCATION | L0000823 | VOLUME | 658614.081 | 4185243.742 | 13.07 |
| LOCATION | L0000824 | VOLUME | 658613.603 | 4185252.318 | 13.06 |
| LOCATION | L0000825 | VOLUME | 658613.125 | 4185260.895 | 13.05 |
| LOCATION | L0000826 | VOLUME | 658612.648 | 4185269.472 | 13.08 |

\*\* End of LINE VOLUME Source ID = SLINE9

\*\* Source Parameters \*\*

|          |        |            |       |         |       |     |
|----------|--------|------------|-------|---------|-------|-----|
| SRCPARAM | IDLE1  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE2  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE3  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE4  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE5  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE6  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE7  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE8  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE9  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE10 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE11 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE12 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE13 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE14 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE15 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE16 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE17 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE18 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE19 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE20 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE21 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE22 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE23 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE24 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE25 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE26 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE27 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE28 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE29 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE30 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE31 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE32 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE33 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE34 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE35 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |

[illegible]



[illegible]

|                                   |          |              |       |         |        |      |
|-----------------------------------|----------|--------------|-------|---------|--------|------|
| SRCPARAM                          | TTP76    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP77    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP78    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP79    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP80    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP81    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP82    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP83    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| ** LINE VOLUME Source ID = SLINE1 |          |              |       |         |        |      |
| SRCPARAM                          | L0000001 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000002 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000003 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000004 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000005 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000006 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000007 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000008 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000009 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000010 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000011 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000012 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000013 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000014 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000015 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000016 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000017 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000018 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000019 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000020 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000021 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000022 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000023 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000024 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000025 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000026 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000027 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000028 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000029 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000030 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000031 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000032 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000033 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000034 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000035 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000036 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000037 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000038 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000039 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000040 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| ** -----                          |          |              |       |         |        |      |
| SRCPARAM                          | STCK1    | 0.0107098198 | 3.550 | 728.550 | 54.78  | 0.13 |
| SRCPARAM                          | STCK2    | 0.0107098198 | 3.840 | 798.160 | 160.56 | 0.17 |
| ** LINE VOLUME Source ID = SLINE2 |          |              |       |         |        |      |
| SRCPARAM                          | L0000041 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000042 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000043 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000044 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000045 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000046 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000047 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000048 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000049 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000050 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000051 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000052 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000053 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |



[illegible]

[illegible]

\* \*

\*\* LINE VOLUME Source ID = SLINE4

[illegible]

[illegible]

```
** LINE VOLUME Source ID = SLINE5
```

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000375 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000376 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000377 | 0.0000001937 | 3.49 | 6.51 | 3.25 |

|          |           |              |      |      |      |
|----------|-----------|--------------|------|------|------|
| SRCPARAM | I.0000376 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
|----------|-----------|--------------|------|------|------|

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0000377 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
|-------------------|--------------|------|------|------|

[illegible]



[illegible]

[illegible]

```
** LINE VOLUME Source ID = SLINE6
```

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000570 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000571 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000572 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000573 | 0.0000002345 | 3.49 | 6.51 | 3.25 |

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000571 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000572 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000573 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

[illegible]

[illegible]



|                                   |          |                |       |       |       |       |
|-----------------------------------|----------|----------------|-------|-------|-------|-------|
| SRCPARAM                          | L0000768 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000769 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000770 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000771 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000772 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000773 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000774 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000775 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000776 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000777 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000778 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000779 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| SRCPARAM                          | L0000780 | 0.000000197    | 3.49  | 6.51  | 3.25  |       |
| ** -----                          |          |                |       |       |       |       |
| ** LINE VOLUME Source ID = SLINE9 |          |                |       |       |       |       |
| SRCPARAM                          | L0000781 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000782 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000783 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000784 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000785 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000786 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000787 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000788 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000789 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000790 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000791 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000792 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000793 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000794 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000795 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000796 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000797 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000798 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000799 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000800 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000801 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000802 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000803 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000804 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000805 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000806 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000807 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000808 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000809 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000810 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000811 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000812 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000813 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000814 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000815 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000816 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000817 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000818 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000819 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000820 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000821 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000822 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000823 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000824 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000825 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| SRCPARAM                          | L0000826 | 0.000000006261 | 3.49  | 4.00  | 3.25  |       |
| ** -----                          |          |                |       |       |       |       |
| ** Building Downwash **           |          |                |       |       |       |       |
| BUILDHGT                          | IDLE1    | 13.72          | 13.72 | 13.72 | 13.72 | 13.72 |
| BUILDHGT                          | IDLE1    | 13.72          | 13.72 | 13.72 | 13.72 | 13.72 |

[illegible]





[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]





[illegible]

[illegible]

[illegible]

[illegible]



[illegible]





|          |       |        |        |        |        |        |        |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDWID | IDLE1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | IDLE1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | IDLE1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 |        |

[illegible]

[illegible]

[illegible]



[illegible]







[illegible]

[illegible]

[illegible]



[illegible]



[illegible]

[illegible]



[illegible]

[illegible]



|          |       |        |        |        |        |        |        |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BUILDWID | TTP81 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP81 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP81 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP81 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP81 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | TTP82 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP82 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP82 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP82 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP82 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP82 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | TTP83 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP83 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP83 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP83 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP83 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP83 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | STCK1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | STCK1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | STCK2 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK2 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK2 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | STCK2 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK2 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK2 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE1 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE1 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE1 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE1 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE1 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE1 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE2 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE2 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE2 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE2 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE2 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE2 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE3 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE3 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE3 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE3 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE3 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE3 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE4 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE4 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE4 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE4 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE4 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE4 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE5 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE5 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE5 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE5 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |





[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]







[illegible]



[illegible]

[illegible]

|        |    |       |         |         |         |         |         |         |
|--------|----|-------|---------|---------|---------|---------|---------|---------|
| BUILDL | EN | TTP83 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDL | EN | TTP83 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDL | EN | TTP83 | 0.00    | 0.00    | 0.00    | 341.41  | 340.07  | 328.40  |
| BUILDL | EN | TTP83 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|        |    |       |         |         |         |         |         |         |
| BUILDL | EN | STCK1 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDL | EN | STCK1 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDL | EN | STCK1 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDL | EN | STCK1 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDL | EN | STCK1 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDL | EN | STCK1 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|        |    |       |         |         |         |         |         |         |
| BUILDL | EN | STCK2 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDL | EN | STCK2 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDL | EN | STCK2 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDL | EN | STCK2 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDL | EN | STCK2 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDL | EN | STCK2 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE1 | -15.52  | -26.12  | -35.92  | -44.63  | -51.99  | -57.76  |
| XBADJ  |    | IDLE1 | -61.78  | -63.93  | -66.45  | -78.97  | -90.31  | -98.90  |
| XBADJ  |    | IDLE1 | -104.49 | -106.90 | -106.07 | -102.01 | -95.62  | -97.00  |
| XBADJ  |    | IDLE1 | -138.64 | -178.13 | -212.84 | -241.07 | -261.98 | -274.93 |
| XBADJ  |    | IDLE1 | -279.53 | -275.63 | -267.14 | -262.44 | -249.76 | -229.49 |
| XBADJ  |    | IDLE1 | -202.26 | -168.87 | -130.36 | -87.88  | -42.73  | -4.45   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE2 | -16.44  | -27.70  | -38.13  | -47.40  | -55.22  | -61.37  |
| XBADJ  |    | IDLE2 | -65.66  | -67.95  | -70.49  | -82.91  | -94.03  | -102.29 |
| XBADJ  |    | IDLE2 | -107.44 | -109.33 | -107.90 | -103.19 | -96.10  | -96.78  |
| XBADJ  |    | IDLE2 | -137.72 | -176.54 | -210.62 | -238.31 | -258.74 | -271.32 |
| XBADJ  |    | IDLE2 | -275.66 | -271.61 | -263.10 | -258.50 | -246.04 | -226.11 |
| XBADJ  |    | IDLE2 | -199.30 | -166.44 | -128.53 | -86.71  | -42.25  | -4.67   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE3 | -17.15  | -29.05  | -40.08  | -49.88  | -58.17  | -64.70  |
| XBADJ  |    | IDLE3 | -69.25  | -71.71  | -74.30  | -86.65  | -97.59  | -105.56 |
| XBADJ  |    | IDLE3 | -110.33 | -111.74 | -109.76 | -104.45 | -96.71  | -96.73  |
| XBADJ  |    | IDLE3 | -137.01 | -175.19 | -208.68 | -235.82 | -255.79 | -268.00 |
| XBADJ  |    | IDLE3 | -272.06 | -267.85 | -259.29 | -254.75 | -242.48 | -222.83 |
| XBADJ  |    | IDLE3 | -196.42 | -164.03 | -126.67 | -85.45  | -41.64  | -4.72   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE4 | -17.98  | -30.55  | -42.19  | -52.56  | -61.32  | -68.22  |
| XBADJ  |    | IDLE4 | -73.05  | -75.66  | -78.29  | -90.56  | -101.29 | -108.95 |
| XBADJ  |    | IDLE4 | -113.30 | -114.20 | -111.64 | -105.68 | -97.27  | -96.59  |
| XBADJ  |    | IDLE4 | -136.18 | -173.70 | -206.56 | -233.15 | -252.65 | -264.47 |
| XBADJ  |    | IDLE4 | -268.26 | -263.90 | -255.30 | -250.85 | -238.77 | -219.45 |
| XBADJ  |    | IDLE4 | -193.45 | -161.58 | -124.79 | -84.22  | -41.08  | -4.86   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE5 | -18.73  | -31.99  | -44.27  | -55.22  | -64.48  | -71.78  |
| XBADJ  |    | IDLE5 | -76.91  | -79.69  | -82.38  | -94.58  | -105.12 | -112.47 |
| XBADJ  |    | IDLE5 | -116.40 | -116.80 | -113.65 | -107.04 | -97.94  | -96.55  |
| XBADJ  |    | IDLE5 | -135.43 | -172.26 | -204.48 | -230.49 | -249.49 | -260.91 |
| XBADJ  |    | IDLE5 | -264.40 | -259.87 | -251.21 | -246.83 | -234.95 | -215.92 |
| XBADJ  |    | IDLE5 | -190.34 | -158.98 | -122.78 | -82.86  | -40.41  | -4.90   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE6 | -20.28  | -34.84  | -48.34  | -60.37  | -70.57  | -78.62  |
| XBADJ  |    | IDLE6 | -84.29  | -87.39  | -90.16  | -102.20 | -112.36 | -119.11 |
| XBADJ  |    | IDLE6 | -122.24 | -121.65 | -117.36 | -109.51 | -99.09  | -96.35  |
| XBADJ  |    | IDLE6 | -133.88 | -169.41 | -200.42 | -225.33 | -243.40 | -254.07 |
| XBADJ  |    | IDLE6 | -257.03 | -252.17 | -243.43 | -239.20 | -227.70 | -209.29 |
| XBADJ  |    | IDLE6 | -184.51 | -154.13 | -119.06 | -80.38  | -39.26  | -5.10   |
|        |    |       |         |         |         |         |         |         |
| XBADJ  |    | IDLE7 | -21.18  | -36.41  | -50.53  | -63.12  | -73.79  | -82.22  |
| XBADJ  |    | IDLE7 | -88.15  | -91.40  | -94.19  | -106.14 | -116.08 | -122.49 |
| XBADJ  |    | IDLE7 | -125.19 | -124.08 | -119.20 | -110.69 | -99.59  | -96.14  |
| XBADJ  |    | IDLE7 | -132.97 | -167.84 | -198.22 | -222.58 | -240.18 | -250.48 |
| XBADJ  |    | IDLE7 | -253.17 | -248.16 | -239.40 | -235.27 | -223.99 | -205.90 |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE7  | -181.56 | -151.70 | -117.23 | -79.20  | -38.76  | -5.31   |
| XBADJ | IDLE8  | -21.89  | -37.76  | -52.48  | -65.61  | -76.74  | -85.54  |
| XBADJ | IDLE8  | -91.74  | -95.16  | -98.00  | -109.88 | -119.64 | -125.77 |
| XBADJ | IDLE8  | -128.07 | -126.49 | -121.06 | -111.95 | -100.20 | -96.09  |
| XBADJ | IDLE8  | -132.26 | -166.49 | -196.27 | -220.09 | -237.23 | -247.15 |
| XBADJ | IDLE8  | -249.57 | -244.40 | -235.59 | -231.52 | -220.42 | -202.63 |
| XBADJ | IDLE8  | -178.67 | -149.29 | -115.37 | -77.95  | -38.15  | -5.36   |
| XBADJ | IDLE9  | -22.72  | -39.26  | -54.60  | -68.28  | -79.89  | -89.07  |
| XBADJ | IDLE9  | -95.54  | -99.11  | -101.99 | -113.79 | -123.34 | -129.15 |
| XBADJ | IDLE9  | -131.04 | -128.95 | -122.93 | -113.18 | -100.75 | -95.95  |
| XBADJ | IDLE9  | -131.43 | -164.99 | -194.16 | -217.42 | -234.08 | -243.63 |
| XBADJ | IDLE9  | -245.77 | -240.45 | -231.60 | -227.62 | -216.72 | -199.24 |
| XBADJ | IDLE9  | -175.71 | -146.83 | -113.50 | -76.71  | -37.60  | -5.50   |
| XBADJ | IDLE10 | -23.47  | -40.69  | -56.68  | -70.94  | -83.05  | -92.63  |
| XBADJ | IDLE10 | -99.40  | -103.15 | -106.08 | -117.81 | -127.17 | -132.68 |
| XBADJ | IDLE10 | -134.15 | -131.54 | -124.94 | -114.54 | -101.42 | -95.91  |
| XBADJ | IDLE10 | -130.68 | -163.55 | -192.08 | -214.76 | -230.92 | -240.07 |
| XBADJ | IDLE10 | -241.92 | -236.41 | -227.51 | -223.60 | -212.89 | -195.72 |
| XBADJ | IDLE10 | -172.60 | -144.23 | -111.49 | -75.35  | -36.93  | -5.54   |
| XBADJ | IDLE11 | -24.34  | -42.22  | -58.81  | -73.62  | -86.19  | -96.14  |
| XBADJ | IDLE11 | -103.16 | -107.06 | -110.02 | -121.65 | -130.81 | -135.99 |
| XBADJ | IDLE11 | -137.04 | -133.93 | -126.75 | -115.71 | -101.92 | -95.72  |
| XBADJ | IDLE11 | -129.81 | -162.03 | -189.94 | -212.08 | -227.78 | -236.56 |
| XBADJ | IDLE11 | -238.15 | -232.50 | -223.57 | -219.75 | -209.26 | -192.40 |
| XBADJ | IDLE11 | -169.70 | -141.85 | -109.68 | -74.18  | -36.43  | -5.73   |
| XBADJ | IDLE12 | -25.13  | -43.67  | -60.89  | -76.26  | -89.31  | -99.65  |
| XBADJ | IDLE12 | -106.95 | -111.01 | -114.02 | -125.58 | -134.54 | -139.41 |
| XBADJ | IDLE12 | -140.05 | -136.43 | -128.67 | -117.00 | -102.53 | -95.63  |
| XBADJ | IDLE12 | -129.03 | -160.58 | -187.86 | -209.44 | -224.66 | -233.05 |
| XBADJ | IDLE12 | -234.36 | -228.55 | -219.57 | -215.83 | -205.53 | -188.98 |
| XBADJ | IDLE12 | -166.70 | -139.34 | -107.76 | -72.90  | -35.82  | -5.82   |
| XBADJ | IDLE13 | -29.73  | -52.23  | -73.13  | -91.81  | -107.71 | -120.33 |
| XBADJ | IDLE13 | -129.29 | -134.33 | -137.60 | -148.71 | -156.52 | -159.57 |
| XBADJ | IDLE13 | -157.78 | -151.19 | -140.01 | -124.57 | -106.11 | -95.11  |
| XBADJ | IDLE13 | -124.42 | -152.02 | -175.62 | -193.89 | -206.26 | -212.37 |
| XBADJ | IDLE13 | -212.02 | -205.23 | -195.99 | -192.70 | -183.55 | -168.82 |
| XBADJ | IDLE13 | -148.97 | -124.59 | -96.42  | -65.32  | -32.24  | -6.34   |
| XBADJ | IDLE14 | -30.61  | -53.75  | -75.27  | -94.49  | -110.85 | -123.83 |
| XBADJ | IDLE14 | -133.06 | -138.24 | -141.54 | -152.56 | -160.16 | -162.89 |
| XBADJ | IDLE14 | -160.68 | -153.58 | -141.81 | -125.74 | -106.61 | -94.92  |
| XBADJ | IDLE14 | -123.55 | -150.50 | -173.49 | -191.21 | -203.12 | -208.86 |
| XBADJ | IDLE14 | -208.26 | -201.32 | -192.05 | -188.85 | -179.91 | -165.51 |
| XBADJ | IDLE14 | -146.07 | -122.20 | -94.61  | -64.15  | -31.74  | -6.53   |
| XBADJ | IDLE15 | -31.39  | -55.20  | -77.34  | -97.12  | -113.96 | -127.33 |
| XBADJ | IDLE15 | -136.84 | -142.18 | -145.53 | -156.47 | -163.88 | -166.30 |
| XBADJ | IDLE15 | -163.67 | -156.07 | -143.73 | -127.02 | -107.21 | -94.83  |
| XBADJ | IDLE15 | -122.77 | -149.05 | -171.42 | -188.58 | -200.01 | -205.36 |
| XBADJ | IDLE15 | -204.48 | -197.38 | -188.06 | -184.94 | -176.19 | -162.09 |
| XBADJ | IDLE15 | -143.07 | -119.70 | -92.70  | -62.87  | -31.14  | -6.62   |
| XBADJ | IDLE16 | -26.54  | -46.36  | -64.78  | -81.24  | -95.22  | -106.31 |
| XBADJ | IDLE16 | -114.17 | -118.56 | -121.67 | -133.10 | -141.70 | -146.00 |
| XBADJ | IDLE16 | -145.86 | -141.29 | -132.43 | -119.54 | -103.78 | -95.55  |
| XBADJ | IDLE16 | -127.62 | -157.88 | -183.97 | -204.47 | -218.75 | -226.38 |
| XBADJ | IDLE16 | -227.14 | -221.00 | -211.92 | -208.31 | -198.37 | -182.40 |
| XBADJ | IDLE16 | -160.89 | -134.49 | -104.00 | -70.36  | -34.57  | -5.90   |
| XBADJ | IDLE17 | -27.44  | -47.94  | -66.98  | -83.99  | -98.44  | -109.91 |



|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE17 | -118.03 | -122.57 | -125.70 | -137.03 | -145.42 | -149.38 |
| XBADJ | IDLE17 | -148.81 | -143.72 | -134.26 | -120.72 | -104.27 | -95.34  |
| XBADJ | IDLE17 | -126.71 | -156.31 | -181.77 | -201.71 | -215.53 | -222.79 |
| XBADJ | IDLE17 | -223.28 | -216.99 | -207.89 | -204.38 | -194.65 | -179.01 |
| XBADJ | IDLE17 | -157.94 | -132.06 | -102.17 | -69.18  | -34.08  | -6.11   |
| XBADJ | IDLE18 | -28.15  | -49.29  | -68.93  | -86.47  | -101.39 | -113.23 |
| XBADJ | IDLE18 | -121.63 | -126.33 | -129.51 | -140.77 | -148.98 | -152.66 |
| XBADJ | IDLE18 | -151.70 | -146.13 | -136.12 | -121.98 | -104.88 | -95.29  |
| XBADJ | IDLE18 | -126.00 | -154.96 | -179.82 | -199.23 | -212.58 | -219.46 |
| XBADJ | IDLE18 | -219.69 | -213.23 | -204.08 | -200.63 | -191.09 | -175.74 |
| XBADJ | IDLE18 | -155.05 | -129.65 | -100.31 | -67.92  | -33.47  | -6.16   |
| XBADJ | IDLE19 | -28.99  | -50.79  | -71.05  | -89.15  | -104.55 | -116.76 |
| XBADJ | IDLE19 | -125.43 | -130.29 | -133.51 | -144.69 | -152.69 | -156.05 |
| XBADJ | IDLE19 | -154.67 | -148.59 | -138.00 | -123.21 | -105.44 | -95.15  |
| XBADJ | IDLE19 | -125.17 | -153.46 | -177.70 | -196.55 | -209.42 | -215.93 |
| XBADJ | IDLE19 | -215.88 | -209.27 | -200.08 | -196.72 | -187.38 | -172.34 |
| XBADJ | IDLE19 | -152.07 | -127.18 | -98.43  | -66.68  | -32.91  | -6.30   |
| XBADJ | IDLE20 | -36.12  | -63.92  | -89.78  | -112.91 | -132.61 | -148.28 |
| XBADJ | IDLE20 | -159.45 | -165.77 | -169.37 | -179.84 | -186.07 | -186.65 |
| XBADJ | IDLE20 | -181.55 | -170.94 | -155.13 | -134.61 | -110.76 | -94.23  |
| XBADJ | IDLE20 | -118.04 | -140.33 | -158.98 | -172.79 | -181.36 | -184.42 |
| XBADJ | IDLE20 | -181.87 | -173.79 | -164.22 | -161.56 | -153.99 | -141.75 |
| XBADJ | IDLE20 | -125.20 | -104.84 | -81.30  | -55.28  | -27.59  | -7.22   |
| XBADJ | IDLE21 | -36.98  | -65.44  | -91.90  | -115.58 | -135.74 | -151.78 |
| XBADJ | IDLE21 | -163.21 | -169.68 | -173.31 | -183.69 | -189.71 | -189.97 |
| XBADJ | IDLE21 | -184.45 | -173.33 | -156.95 | -135.79 | -111.27 | -94.05  |
| XBADJ | IDLE21 | -117.18 | -138.81 | -156.85 | -170.12 | -178.23 | -180.91 |
| XBADJ | IDLE21 | -178.10 | -169.88 | -160.28 | -157.71 | -150.35 | -138.43 |
| XBADJ | IDLE21 | -122.29 | -102.44 | -79.48  | -54.10  | -27.08  | -7.40   |
| XBADJ | IDLE22 | -37.76  | -66.89  | -93.98  | -118.22 | -138.86 | -155.29 |
| XBADJ | IDLE22 | -167.00 | -173.63 | -177.31 | -187.62 | -193.44 | -193.39 |
| XBADJ | IDLE22 | -187.46 | -175.84 | -158.87 | -137.07 | -111.87 | -93.96  |
| XBADJ | IDLE22 | -116.39 | -137.36 | -154.77 | -167.48 | -175.10 | -177.40 |
| XBADJ | IDLE22 | -174.31 | -165.93 | -156.28 | -153.79 | -146.63 | -135.01 |
| XBADJ | IDLE22 | -119.29 | -99.94  | -77.56  | -52.82  | -26.48  | -7.49   |
| XBADJ | IDLE23 | -32.91  | -58.05  | -81.43  | -102.33 | -120.12 | -134.27 |
| XBADJ | IDLE23 | -144.33 | -150.01 | -153.45 | -164.24 | -171.27 | -173.09 |
| XBADJ | IDLE23 | -169.64 | -161.05 | -147.56 | -129.59 | -108.44 | -94.68  |
| XBADJ | IDLE23 | -121.24 | -146.20 | -167.33 | -183.37 | -193.84 | -198.43 |
| XBADJ | IDLE23 | -196.98 | -189.55 | -180.14 | -177.16 | -168.80 | -155.31 |
| XBADJ | IDLE23 | -137.10 | -114.73 | -88.87  | -60.31  | -29.91  | -6.77   |
| XBADJ | IDLE24 | -33.83  | -59.64  | -83.63  | -105.09 | -123.35 | -137.87 |
| XBADJ | IDLE24 | -148.19 | -154.02 | -157.48 | -168.17 | -174.98 | -176.47 |
| XBADJ | IDLE24 | -172.59 | -163.47 | -149.39 | -130.76 | -108.92 | -94.46  |
| XBADJ | IDLE24 | -120.33 | -144.61 | -165.12 | -180.61 | -190.62 | -194.83 |
| XBADJ | IDLE24 | -193.12 | -185.54 | -176.11 | -173.23 | -165.09 | -151.93 |
| XBADJ | IDLE24 | -134.16 | -112.30 | -87.04  | -59.13  | -29.43  | -6.99   |
| XBADJ | IDLE25 | -34.53  | -60.98  | -85.57  | -107.57 | -126.30 | -141.19 |
| XBADJ | IDLE25 | -151.79 | -157.78 | -161.29 | -171.92 | -178.54 | -179.74 |
| XBADJ | IDLE25 | -175.48 | -165.89 | -151.26 | -132.03 | -109.54 | -94.42  |
| XBADJ | IDLE25 | -119.63 | -143.27 | -163.18 | -178.13 | -187.67 | -191.51 |
| XBADJ | IDLE25 | -189.53 | -181.78 | -172.30 | -169.49 | -161.52 | -148.65 |
| XBADJ | IDLE25 | -131.26 | -109.89 | -85.17  | -57.87  | -28.81  | -7.03   |
| XBADJ | IDLE26 | -35.36  | -62.48  | -87.69  | -110.25 | -129.45 | -144.72 |
| XBADJ | IDLE26 | -155.59 | -161.74 | -165.29 | -175.83 | -182.26 | -183.14 |
| XBADJ | IDLE26 | -178.46 | -168.35 | -153.14 | -133.26 | -110.10 | -94.28  |
| XBADJ | IDLE26 | -118.79 | -141.77 | -161.06 | -175.45 | -184.52 | -187.97 |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE26 | -185.72 | -177.82 | -168.30 | -165.57 | -157.81 | -145.26 |
| XBADJ | IDLE26 | -128.29 | -107.42 | -83.29  | -56.63  | -28.25  | -7.17   |
| XBADJ | IDLE27 | -42.35  | -75.41  | -106.18 | -133.73 | -157.21 | -175.91 |
| XBADJ | IDLE27 | -189.27 | -196.88 | -200.83 | -210.69 | -215.37 | -213.50 |
| XBADJ | IDLE27 | -205.15 | -190.56 | -170.19 | -144.64 | -115.46 | -93.45  |
| XBADJ | IDLE27 | -111.81 | -128.84 | -142.57 | -151.97 | -156.76 | -156.78 |
| XBADJ | IDLE27 | -152.04 | -142.68 | -132.76 | -130.72 | -124.70 | -114.89 |
| XBADJ | IDLE27 | -101.60 | -85.21  | -66.24  | -45.26  | -22.90  | -8.00   |
| XBADJ | IDLE28 | -43.21  | -76.93  | -108.31 | -136.40 | -160.34 | -179.42 |
| XBADJ | IDLE28 | -193.04 | -200.79 | -204.77 | -214.54 | -219.01 | -216.82 |
| XBADJ | IDLE28 | -208.05 | -192.96 | -172.00 | -145.82 | -115.96 | -93.27  |
| XBADJ | IDLE28 | -110.94 | -127.32 | -140.44 | -149.30 | -153.62 | -153.28 |
| XBADJ | IDLE28 | -148.27 | -138.77 | -128.82 | -126.87 | -121.06 | -111.57 |
| XBADJ | IDLE28 | -98.69  | -82.82  | -64.43  | -44.08  | -22.39  | -8.18   |
| XBADJ | IDLE29 | -43.99  | -78.38  | -110.39 | -139.04 | -163.47 | -182.93 |
| XBADJ | IDLE29 | -196.83 | -204.75 | -208.77 | -218.46 | -222.74 | -220.24 |
| XBADJ | IDLE29 | -211.06 | -195.46 | -173.92 | -147.10 | -116.57 | -93.18  |
| XBADJ | IDLE29 | -110.16 | -125.87 | -138.37 | -146.66 | -150.50 | -149.77 |
| XBADJ | IDLE29 | -144.48 | -134.81 | -124.82 | -122.94 | -117.33 | -108.15 |
| XBADJ | IDLE29 | -95.69  | -80.32  | -62.51  | -42.79  | -21.78  | -8.27   |
| XBADJ | IDLE30 | -39.14  | -69.54  | -97.83  | -123.14 | -144.72 | -161.89 |
| XBADJ | IDLE30 | -174.15 | -181.12 | -184.90 | -195.08 | -200.55 | -199.93 |
| XBADJ | IDLE30 | -193.24 | -180.67 | -162.61 | -139.61 | -113.13 | -93.90  |
| XBADJ | IDLE30 | -115.01 | -134.71 | -150.93 | -162.56 | -169.25 | -170.80 |
| XBADJ | IDLE30 | -167.16 | -158.44 | -148.69 | -146.33 | -139.51 | -128.46 |
| XBADJ | IDLE30 | -113.51 | -95.11  | -73.82  | -50.28  | -25.22  | -7.55   |
| XBADJ | IDLE31 | -40.06  | -71.13  | -100.04 | -125.91 | -147.95 | -165.50 |
| XBADJ | IDLE31 | -178.02 | -185.13 | -188.94 | -199.02 | -204.27 | -203.32 |
| XBADJ | IDLE31 | -196.19 | -183.10 | -164.44 | -140.79 | -113.62 | -93.68  |
| XBADJ | IDLE31 | -114.10 | -133.12 | -148.72 | -159.79 | -166.01 | -167.19 |
| XBADJ | IDLE31 | -163.29 | -154.43 | -144.65 | -142.38 | -135.79 | -125.08 |
| XBADJ | IDLE31 | -110.56 | -92.68  | -71.99  | -49.11  | -24.73  | -7.77   |
| XBADJ | IDLE32 | -40.76  | -72.47  | -101.98 | -128.39 | -150.90 | -168.82 |
| XBADJ | IDLE32 | -181.62 | -188.89 | -192.75 | -202.77 | -207.84 | -206.60 |
| XBADJ | IDLE32 | -199.08 | -185.52 | -166.31 | -142.05 | -114.24 | -93.64  |
| XBADJ | IDLE32 | -113.40 | -131.78 | -146.78 | -157.31 | -163.07 | -163.87 |
| XBADJ | IDLE32 | -159.70 | -150.67 | -140.84 | -138.64 | -132.23 | -121.80 |
| XBADJ | IDLE32 | -107.66 | -90.26  | -70.12  | -47.84  | -24.11  | -7.81   |
| XBADJ | IDLE33 | -41.59  | -73.97  | -104.09 | -131.06 | -154.04 | -172.35 |
| XBADJ | IDLE33 | -185.41 | -192.85 | -196.74 | -206.67 | -211.54 | -209.99 |
| XBADJ | IDLE33 | -202.05 | -187.97 | -168.19 | -143.29 | -114.79 | -93.50  |
| XBADJ | IDLE33 | -112.56 | -130.28 | -144.66 | -154.64 | -159.92 | -160.35 |
| XBADJ | IDLE33 | -155.90 | -146.71 | -136.85 | -134.73 | -128.53 | -118.41 |
| XBADJ | IDLE33 | -104.70 | -87.80  | -68.24  | -46.61  | -23.56  | -7.95   |
| XBADJ | IDLE34 | -48.76  | -87.14  | -122.86 | -154.85 | -182.14 | -203.89 |
| XBADJ | IDLE34 | -219.45 | -228.34 | -232.61 | -241.83 | -244.92 | -240.57 |
| XBADJ | IDLE34 | -228.91 | -210.29 | -185.29 | -154.65 | -120.08 | -92.54  |
| XBADJ | IDLE34 | -105.39 | -117.11 | -125.89 | -130.85 | -131.83 | -128.80 |
| XBADJ | IDLE34 | -121.86 | -111.22 | -100.98 | -99.58  | -95.15  | -87.83  |
| XBADJ | IDLE34 | -77.84  | -65.48  | -51.14  | -35.24  | -18.27  | -8.91   |
| XBADJ | IDLE35 | -49.64  | -88.66  | -125.00 | -157.53 | -185.28 | -207.40 |
| XBADJ | IDLE35 | -223.22 | -232.25 | -236.55 | -245.68 | -248.56 | -243.89 |
| XBADJ | IDLE35 | -231.81 | -212.68 | -187.09 | -155.82 | -120.57 | -92.35  |
| XBADJ | IDLE35 | -104.52 | -115.59 | -123.76 | -128.17 | -128.69 | -125.30 |
| XBADJ | IDLE35 | -118.10 | -107.31 | -97.04  | -95.73  | -91.51  | -84.51  |
| XBADJ | IDLE35 | -74.94  | -63.10  | -49.33  | -34.07  | -17.78  | -9.10   |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE36 | -50.42  | -90.11  | -127.07 | -160.16 | -188.39 | -210.90 |
| XBADJ | IDLE36 | -227.00 | -236.20 | -240.54 | -249.59 | -252.28 | -247.30 |
| XBADJ | IDLE36 | -234.80 | -215.18 | -189.01 | -157.10 | -121.18 | -92.26  |
| XBADJ | IDLE36 | -103.74 | -114.14 | -121.69 | -125.54 | -125.57 | -121.80 |
| XBADJ | IDLE36 | -114.32 | -103.36 | -93.05  | -91.82  | -87.79  | -81.10  |
| XBADJ | IDLE36 | -71.94  | -60.60  | -47.42  | -32.79  | -17.17  | -9.19   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE37 | -45.56  | -81.27  | -114.52 | -144.28 | -169.65 | -189.88 |
| XBADJ | IDLE37 | -204.33 | -212.57 | -216.68 | -226.22 | -230.10 | -226.99 |
| XBADJ | IDLE37 | -216.99 | -200.39 | -177.70 | -149.62 | -117.74 | -92.98  |
| XBADJ | IDLE37 | -108.59 | -122.97 | -134.24 | -141.43 | -144.31 | -142.82 |
| XBADJ | IDLE37 | -136.98 | -126.99 | -116.91 | -115.19 | -109.97 | -101.40 |
| XBADJ | IDLE37 | -89.76  | -75.39  | -58.72  | -40.28  | -20.61  | -8.47   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE38 | -46.48  | -82.86  | -116.72 | -147.04 | -172.88 | -193.48 |
| XBADJ | IDLE38 | -208.19 | -216.58 | -220.71 | -230.15 | -233.81 | -230.37 |
| XBADJ | IDLE38 | -219.93 | -202.81 | -179.53 | -150.79 | -118.23 | -92.76  |
| XBADJ | IDLE38 | -107.67 | -121.39 | -132.03 | -138.67 | -141.09 | -139.22 |
| XBADJ | IDLE38 | -133.12 | -122.98 | -112.88 | -111.26 | -106.25 | -98.02  |
| XBADJ | IDLE38 | -86.81  | -72.96  | -56.90  | -39.11  | -20.12  | -8.69   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE39 | -47.18  | -84.20  | -118.66 | -149.51 | -175.83 | -196.80 |
| XBADJ | IDLE39 | -211.79 | -220.34 | -224.52 | -233.89 | -237.38 | -233.65 |
| XBADJ | IDLE39 | -222.83 | -205.23 | -181.40 | -152.06 | -118.85 | -92.72  |
| XBADJ | IDLE39 | -106.97 | -120.05 | -130.09 | -136.19 | -138.14 | -135.90 |
| XBADJ | IDLE39 | -129.53 | -119.22 | -109.07 | -107.51 | -102.69 | -94.74  |
| XBADJ | IDLE39 | -83.92  | -70.55  | -55.03  | -37.84  | -19.50  | -8.73   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE40 | -48.01  | -85.70  | -120.78 | -152.19 | -178.98 | -200.33 |
| XBADJ | IDLE40 | -215.59 | -224.30 | -228.52 | -237.81 | -241.09 | -237.05 |
| XBADJ | IDLE40 | -225.80 | -207.70 | -183.28 | -153.29 | -119.41 | -92.58  |
| XBADJ | IDLE40 | -106.14 | -118.55 | -127.97 | -133.51 | -134.99 | -132.36 |
| XBADJ | IDLE40 | -125.72 | -115.26 | -105.07 | -103.60 | -98.98  | -91.35  |
| XBADJ | IDLE40 | -80.94  | -68.08  | -53.15  | -36.60  | -18.94  | -8.87   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE41 | -55.03  | -98.70  | -139.36 | -175.79 | -206.88 | -231.68 |
| XBADJ | IDLE41 | -249.44 | -259.63 | -264.24 | -272.84 | -274.37 | -267.57 |
| XBADJ | IDLE41 | -252.63 | -230.02 | -200.42 | -164.73 | -124.79 | -91.75  |
| XBADJ | IDLE41 | -99.12  | -105.55 | -109.39 | -109.91 | -107.09 | -101.02 |
| XBADJ | IDLE41 | -91.87  | -79.93  | -69.35  | -68.56  | -65.69  | -60.83  |
| XBADJ | IDLE41 | -54.12  | -45.76  | -36.01  | -25.17  | -13.56  | -9.70   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE42 | -55.90  | -100.22 | -141.49 | -178.47 | -210.02 | -235.19 |
| XBADJ | IDLE42 | -253.22 | -263.55 | -268.19 | -276.70 | -278.02 | -270.90 |
| XBADJ | IDLE42 | -255.54 | -232.42 | -202.24 | -165.91 | -125.30 | -91.57  |
| XBADJ | IDLE42 | -98.26  | -104.03 | -107.26 | -107.23 | -103.95 | -97.50  |
| XBADJ | IDLE42 | -88.10  | -76.01  | -65.40  | -64.71  | -62.04  | -57.50  |
| XBADJ | IDLE42 | -51.20  | -43.36  | -34.19  | -23.98  | -13.05  | -9.88   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE43 | -51.83  | -92.83  | -131.01 | -165.21 | -194.39 | -217.67 |
| XBADJ | IDLE43 | -234.33 | -243.87 | -248.32 | -257.24 | -259.57 | -254.00 |
| XBADJ | IDLE43 | -240.73 | -220.13 | -192.85 | -159.71 | -122.47 | -92.20  |
| XBADJ | IDLE43 | -102.33 | -111.42 | -117.74 | -120.49 | -119.58 | -115.03 |
| XBADJ | IDLE43 | -106.98 | -95.69  | -85.27  | -84.16  | -80.50  | -74.39  |
| XBADJ | IDLE43 | -66.02  | -55.65  | -43.58  | -30.19  | -15.88  | -9.25   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE44 | -52.74  | -94.41  | -133.22 | -167.97 | -197.62 | -221.27 |
| XBADJ | IDLE44 | -238.19 | -247.88 | -252.35 | -261.17 | -263.28 | -257.38 |
| XBADJ | IDLE44 | -243.67 | -222.55 | -194.67 | -160.88 | -122.95 | -91.98  |
| XBADJ | IDLE44 | -101.41 | -109.83 | -115.54 | -117.73 | -116.35 | -111.43 |
| XBADJ | IDLE44 | -103.12 | -91.68  | -81.24  | -80.23  | -76.79  | -71.01  |
| XBADJ | IDLE44 | -63.08  | -53.22  | -41.75  | -29.02  | -15.40  | -9.47   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE45 | -53.44  | -95.75  | -135.16 | -170.45 | -200.57 | -224.59 |
| XBADJ | IDLE45 | -241.78 | -251.64 | -256.16 | -264.92 | -266.84 | -260.66 |
| XBADJ | IDLE45 | -246.56 | -224.97 | -196.54 | -162.14 | -123.58 | -91.94  |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE45 | -100.71 | -108.49 | -113.60 | -115.25 | -113.40 | -108.11 |
| XBADJ | IDLE45 | -99.53  | -87.92  | -77.43  | -76.49  | -73.22  | -67.73  |
| XBADJ | IDLE45 | -60.18  | -50.81  | -39.88  | -27.75  | -14.78  | -9.51   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE46 | -54.28  | -97.25  | -137.28 | -173.13 | -203.72 | -228.12 |
| XBADJ | IDLE46 | -245.59 | -255.60 | -260.16 | -268.83 | -270.56 | -264.06 |
| XBADJ | IDLE46 | -249.54 | -227.44 | -198.42 | -163.38 | -124.13 | -91.80  |
| XBADJ | IDLE46 | -99.88  | -106.99 | -111.48 | -112.57 | -110.25 | -104.57 |
| XBADJ | IDLE46 | -95.72  | -83.96  | -73.43  | -72.57  | -69.51  | -64.34  |
| XBADJ | IDLE46 | -57.21  | -48.34  | -38.01  | -26.51  | -14.22  | -9.65   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU1   | -18.23  | -28.69  | -38.28  | -46.70  | -53.71  | -59.08  |
| XBADJ | TRU1   | -62.66  | -64.33  | -66.37  | -78.41  | -89.28  | -97.45  |
| XBADJ | TRU1   | -102.65 | -104.73 | -103.63 | -99.38  | -92.87  | -94.23  |
| XBADJ | TRU1   | -135.92 | -175.56 | -210.48 | -239.00 | -260.26 | -273.62 |
| XBADJ | TRU1   | -278.66 | -275.23 | -267.22 | -263.00 | -250.78 | -230.95 |
| XBADJ | TRU1   | -204.10 | -171.05 | -132.80 | -90.51  | -45.48  | -7.22   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU2   | -18.88  | -30.01  | -40.23  | -49.23  | -56.73  | -62.51  |
| XBADJ | TRU2   | -66.38  | -68.24  | -70.35  | -82.33  | -93.04  | -100.91 |
| XBADJ | TRU2   | -105.72 | -107.32 | -105.66 | -100.78 | -93.61  | -94.27  |
| XBADJ | TRU2   | -135.27 | -174.23 | -208.52 | -236.47 | -257.24 | -270.19 |
| XBADJ | TRU2   | -274.93 | -271.32 | -263.24 | -259.07 | -247.03 | -227.48 |
| XBADJ | TRU2   | -201.02 | -168.46 | -130.77 | -89.11  | -44.75  | -7.18   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU3   | -19.68  | -31.46  | -42.29  | -51.83  | -59.80  | -65.95  |
| XBADJ | TRU3   | -70.10  | -72.11  | -74.26  | -86.16  | -96.67  | -104.24 |
| XBADJ | TRU3   | -108.64 | -109.74 | -107.51 | -102.01 | -94.17  | -94.15  |
| XBADJ | TRU3   | -134.47 | -172.78 | -206.46 | -233.87 | -254.17 | -266.74 |
| XBADJ | TRU3   | -271.21 | -267.45 | -259.33 | -255.24 | -243.40 | -224.16 |
| XBADJ | TRU3   | -198.11 | -166.04 | -128.92 | -87.89  | -44.19  | -7.30   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU4   | -20.43  | -32.86  | -44.29  | -54.38  | -62.81  | -69.33  |
| XBADJ | TRU4   | -73.75  | -75.93  | -78.12  | -89.95  | -100.27 | -107.54 |
| XBADJ | TRU4   | -111.55 | -112.16 | -109.37 | -103.25 | -94.76  | -94.07  |
| XBADJ | TRU4   | -133.72 | -171.39 | -204.46 | -231.32 | -251.16 | -263.36 |
| XBADJ | TRU4   | -267.56 | -263.63 | -255.47 | -251.45 | -239.80 | -220.85 |
| XBADJ | TRU4   | -195.20 | -163.62 | -127.06 | -86.64  | -43.59  | -7.38   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU5   | -21.24  | -34.33  | -46.39  | -57.03  | -65.94  | -72.84  |
| XBADJ | TRU5   | -77.53  | -79.87  | -82.10  | -93.85  | -103.97 | -110.93 |
| XBADJ | TRU5   | -114.52 | -114.63 | -111.25 | -104.50 | -95.33  | -93.95  |
| XBADJ | TRU5   | -132.92 | -169.91 | -202.37 | -228.67 | -248.03 | -259.85 |
| XBADJ | TRU5   | -263.78 | -259.69 | -251.49 | -247.55 | -236.10 | -217.47 |
| XBADJ | TRU5   | -192.23 | -161.15 | -125.17 | -85.39  | -43.02  | -7.50   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU6   | -22.90  | -37.32  | -50.61  | -62.35  | -72.20  | -79.86  |
| XBADJ | TRU6   | -85.09  | -87.74  | -90.04  | -101.62 | -111.33 | -117.66 |
| XBADJ | TRU6   | -120.41 | -119.51 | -114.97 | -106.94 | -96.42  | -93.66  |
| XBADJ | TRU6   | -131.25 | -166.93 | -198.15 | -223.35 | -241.76 | -252.83 |
| XBADJ | TRU6   | -256.22 | -251.82 | -243.55 | -239.79 | -228.74 | -210.74 |
| XBADJ | TRU6   | -186.33 | -156.27 | -121.45 | -82.95  | -41.93  | -7.79   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU7   | -23.56  | -38.65  | -52.56  | -64.88  | -75.23  | -83.29  |
| XBADJ | TRU7   | -88.82  | -91.65  | -94.02  | -105.55 | -115.08 | -121.13 |
| XBADJ | TRU7   | -123.49 | -122.10 | -117.00 | -108.34 | -97.15  | -93.70  |
| XBADJ | TRU7   | -130.60 | -165.60 | -196.19 | -220.82 | -238.74 | -249.41 |
| XBADJ | TRU7   | -252.49 | -247.91 | -239.57 | -235.86 | -224.98 | -207.27 |
| XBADJ | TRU7   | -183.26 | -153.68 | -119.43 | -81.55  | -41.20  | -7.75   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU8   | -24.35  | -40.10  | -54.62  | -67.49  | -78.30  | -86.74  |
| XBADJ | TRU8   | -92.54  | -95.52  | -97.93  | -109.38 | -118.72 | -124.45 |
| XBADJ | TRU8   | -126.41 | -124.52 | -118.85 | -109.57 | -97.72  | -93.58  |
| XBADJ | TRU8   | -129.80 | -164.15 | -194.13 | -218.22 | -235.67 | -245.96 |
| XBADJ | TRU8   | -248.78 | -244.04 | -235.66 | -232.03 | -221.35 | -203.94 |
| XBADJ | TRU8   | -180.34 | -151.26 | -117.58 | -80.33  | -40.64  | -7.87   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU9  | -25.10  | -41.49  | -56.62  | -70.03  | -81.31  | -90.12  |
| XBADJ | TRU9  | -96.19  | -99.34  | -101.79 | -113.16 | -122.32 | -127.76 |
| XBADJ | TRU9  | -129.31 | -126.94 | -120.71 | -110.81 | -98.31  | -93.50  |
| XBADJ | TRU9  | -129.05 | -162.76 | -192.13 | -215.67 | -232.66 | -242.58 |
| XBADJ | TRU9  | -245.12 | -240.22 | -231.80 | -228.24 | -217.75 | -200.64 |
| XBADJ | TRU9  | -177.43 | -148.84 | -115.72 | -79.08  | -40.04  | -7.95   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU10 | -25.91  | -42.97  | -58.71  | -72.68  | -84.43  | -93.63  |
| XBADJ | TRU10 | -99.97  | -103.28 | -105.77 | -117.06 | -126.02 | -131.14 |
| XBADJ | TRU10 | -132.28 | -129.41 | -122.60 | -112.06 | -98.88  | -93.38  |
| XBADJ | TRU10 | -128.24 | -161.28 | -190.04 | -213.02 | -229.53 | -239.07 |
| XBADJ | TRU10 | -241.34 | -236.28 | -227.82 | -224.34 | -214.05 | -197.25 |
| XBADJ | TRU10 | -174.46 | -146.37 | -113.83 | -77.83  | -39.47  | -8.07   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU11 | -26.82  | -44.55  | -60.92  | -75.44  | -87.67  | -97.24  |
| XBADJ | TRU11 | -103.85 | -107.30 | -109.82 | -121.01 | -129.75 | -134.55 |
| XBADJ | TRU11 | -135.25 | -131.85 | -124.44 | -113.25 | -99.38  | -93.17  |
| XBADJ | TRU11 | -127.33 | -159.70 | -187.83 | -210.26 | -226.30 | -235.46 |
| XBADJ | TRU11 | -237.46 | -232.26 | -223.77 | -220.39 | -210.32 | -193.85 |
| XBADJ | TRU11 | -171.49 | -143.93 | -111.99 | -76.65  | -38.98  | -8.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU12 | -27.56  | -45.96  | -62.97  | -78.06  | -90.78  | -100.74 |
| XBADJ | TRU12 | -107.64 | -111.27 | -113.84 | -124.97 | -133.51 | -138.01 |
| XBADJ | TRU12 | -138.31 | -134.40 | -126.41 | -114.59 | -100.03 | -93.13  |
| XBADJ | TRU12 | -126.60 | -158.29 | -185.79 | -207.64 | -223.19 | -231.96 |
| XBADJ | TRU12 | -233.67 | -228.29 | -219.75 | -216.44 | -206.55 | -190.39 |
| XBADJ | TRU12 | -168.44 | -141.38 | -110.01 | -75.31  | -38.32  | -8.32   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU13 | -29.28  | -48.96  | -67.16  | -83.32  | -96.94  | -107.62 |
| XBADJ | TRU13 | -115.03 | -118.95 | -121.57 | -132.51 | -140.65 | -144.51 |
| XBADJ | TRU13 | -143.98 | -139.08 | -129.95 | -116.87 | -101.00 | -92.75  |
| XBADJ | TRU13 | -124.88 | -155.29 | -181.59 | -202.38 | -217.02 | -225.07 |
| XBADJ | TRU13 | -226.28 | -220.61 | -212.02 | -208.89 | -199.42 | -183.88 |
| XBADJ | TRU13 | -162.76 | -136.70 | -106.48 | -73.02  | -37.35  | -8.70   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU14 | -29.93  | -50.28  | -69.11  | -85.84  | -99.97  | -111.05 |
| XBADJ | TRU14 | -118.76 | -122.86 | -125.55 | -136.44 | -144.40 | -147.98 |
| XBADJ | TRU14 | -147.06 | -141.67 | -131.98 | -118.27 | -101.73 | -92.79  |
| XBADJ | TRU14 | -124.23 | -153.96 | -179.64 | -199.86 | -214.00 | -221.64 |
| XBADJ | TRU14 | -222.55 | -216.70 | -208.04 | -204.97 | -195.66 | -180.42 |
| XBADJ | TRU14 | -159.69 | -134.11 | -104.45 | -71.62  | -36.62  | -8.66   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU15 | -30.72  | -51.73  | -71.17  | -88.44  | -103.03 | -114.49 |
| XBADJ | TRU15 | -122.47 | -126.72 | -129.45 | -140.26 | -148.03 | -151.30 |
| XBADJ | TRU15 | -149.97 | -144.08 | -133.82 | -119.49 | -102.29 | -92.67  |
| XBADJ | TRU15 | -123.43 | -152.52 | -177.59 | -197.26 | -210.94 | -218.21 |
| XBADJ | TRU15 | -218.85 | -212.84 | -204.14 | -201.15 | -192.04 | -177.10 |
| XBADJ | TRU15 | -156.78 | -131.69 | -102.61 | -70.40  | -36.06  | -8.78   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU16 | -31.46  | -53.12  | -73.16  | -90.98  | -106.03 | -117.87 |
| XBADJ | TRU16 | -126.12 | -130.54 | -133.31 | -144.05 | -151.63 | -154.60 |
| XBADJ | TRU16 | -152.88 | -146.51 | -135.69 | -120.75 | -102.89 | -92.60  |
| XBADJ | TRU16 | -122.69 | -151.13 | -175.59 | -194.72 | -207.94 | -214.83 |
| XBADJ | TRU16 | -215.20 | -209.02 | -200.28 | -197.36 | -188.44 | -173.79 |
| XBADJ | TRU16 | -153.87 | -129.27 | -100.74 | -69.15  | -35.46  | -8.85   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU17 | -32.27  | -54.59  | -75.26  | -93.63  | -109.17 | -121.38 |
| XBADJ | TRU17 | -129.91 | -134.49 | -137.30 | -147.96 | -155.34 | -158.00 |
| XBADJ | TRU17 | -155.86 | -148.98 | -137.58 | -122.00 | -103.47 | -92.48  |
| XBADJ | TRU17 | -121.88 | -149.65 | -173.50 | -192.07 | -204.80 | -211.31 |
| XBADJ | TRU17 | -211.40 | -205.07 | -196.29 | -193.45 | -184.73 | -170.40 |
| XBADJ | TRU17 | -150.89 | -126.79 | -98.85  | -67.90  | -34.88  | -8.97   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU18 | -33.18  | -56.17  | -77.46  | -96.39  | -112.40 | -124.98 |
| XBADJ | TRU18 | -133.78 | -138.50 | -141.34 | -151.90 | -159.06 | -161.39 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU18 | -158.82 | -151.42 | -139.42 | -123.18 | -103.96 | -92.27  |
| XBADJ | TRU18 | -120.97 | -148.07 | -171.29 | -189.31 | -201.57 | -207.71 |
| XBADJ | TRU18 | -207.54 | -201.06 | -192.25 | -189.51 | -181.00 | -167.00 |
| XBADJ | TRU18 | -147.93 | -124.36 | -97.01  | -66.71  | -34.39  | -9.18   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU19 | -33.92  | -57.59  | -79.50  | -99.01  | -115.50 | -128.49 |
| XBADJ | TRU19 | -137.57 | -142.47 | -145.36 | -155.85 | -162.83 | -164.85 |
| XBADJ | TRU19 | -161.87 | -153.97 | -141.40 | -124.52 | -104.62 | -92.23  |
| XBADJ | TRU19 | -120.24 | -146.66 | -169.25 | -186.69 | -198.47 | -204.21 |
| XBADJ | TRU19 | -203.75 | -197.09 | -188.23 | -185.55 | -177.24 | -163.54 |
| XBADJ | TRU19 | -144.87 | -121.80 | -95.03  | -65.37  | -33.73  | -9.22   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU20 | -35.58  | -60.55  | -83.69  | -104.28 | -121.71 | -135.43 |
| XBADJ | TRU20 | -145.05 | -150.25 | -153.21 | -163.53 | -170.10 | -171.50 |
| XBADJ | TRU20 | -167.69 | -158.79 | -145.06 | -126.92 | -105.69 | -91.93  |
| XBADJ | TRU20 | -118.58 | -143.70 | -165.06 | -181.42 | -192.26 | -197.26 |
| XBADJ | TRU20 | -196.27 | -189.31 | -180.38 | -177.88 | -169.97 | -156.89 |
| XBADJ | TRU20 | -139.05 | -116.99 | -91.37  | -62.97  | -32.66  | -9.52   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU21 | -36.23  | -61.88  | -85.64  | -106.81 | -124.73 | -138.86 |
| XBADJ | TRU21 | -148.77 | -154.16 | -157.19 | -167.46 | -173.85 | -174.97 |
| XBADJ | TRU21 | -170.77 | -161.38 | -147.09 | -128.32 | -106.42 | -91.97  |
| XBADJ | TRU21 | -117.93 | -142.37 | -163.11 | -178.89 | -189.24 | -193.83 |
| XBADJ | TRU21 | -192.54 | -185.40 | -176.40 | -173.95 | -166.21 | -153.43 |
| XBADJ | TRU21 | -135.98 | -114.40 | -89.34  | -61.57  | -31.93  | -9.48   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU22 | -37.02  | -63.32  | -87.70  | -109.41 | -127.80 | -142.30 |
| XBADJ | TRU22 | -152.48 | -158.02 | -161.09 | -171.28 | -177.48 | -178.29 |
| XBADJ | TRU22 | -173.68 | -163.79 | -148.93 | -129.54 | -106.98 | -91.85  |
| XBADJ | TRU22 | -117.13 | -140.92 | -161.06 | -176.29 | -186.17 | -190.40 |
| XBADJ | TRU22 | -188.83 | -181.54 | -172.50 | -170.13 | -162.59 | -150.11 |
| XBADJ | TRU22 | -133.07 | -111.98 | -87.50  | -60.35  | -31.37  | -9.60   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU23 | -37.78  | -64.72  | -89.70  | -111.96 | -130.81 | -145.69 |
| XBADJ | TRU23 | -156.14 | -161.85 | -164.96 | -175.07 | -181.09 | -181.60 |
| XBADJ | TRU23 | -176.59 | -166.22 | -150.80 | -130.79 | -107.57 | -91.77  |
| XBADJ | TRU23 | -116.38 | -139.53 | -159.05 | -173.74 | -183.16 | -187.00 |
| XBADJ | TRU23 | -185.17 | -177.71 | -168.63 | -166.33 | -158.98 | -146.80 |
| XBADJ | TRU23 | -130.16 | -109.56 | -85.63  | -59.10  | -30.78  | -9.68   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU24 | -38.58  | -66.20  | -91.80  | -114.61 | -133.94 | -149.20 |
| XBADJ | TRU24 | -159.92 | -165.79 | -168.94 | -178.97 | -184.79 | -184.98 |
| XBADJ | TRU24 | -179.56 | -168.69 | -152.68 | -132.04 | -108.15 | -91.65  |
| XBADJ | TRU24 | -115.57 | -138.05 | -156.96 | -171.09 | -180.03 | -183.50 |
| XBADJ | TRU24 | -181.39 | -173.77 | -164.65 | -162.43 | -155.28 | -143.41 |
| XBADJ | TRU24 | -127.18 | -107.09 | -83.75  | -57.85  | -30.21  | -9.80   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU25 | -39.49  | -67.78  | -94.00  | -117.37 | -137.17 | -152.80 |
| XBADJ | TRU25 | -163.79 | -169.81 | -172.98 | -182.91 | -188.51 | -188.38 |
| XBADJ | TRU25 | -182.52 | -171.12 | -154.52 | -133.23 | -108.64 | -91.44  |
| XBADJ | TRU25 | -114.66 | -136.47 | -154.76 | -168.34 | -176.80 | -179.89 |
| XBADJ | TRU25 | -177.52 | -169.75 | -160.61 | -158.49 | -151.56 | -140.02 |
| XBADJ | TRU25 | -124.22 | -104.66 | -81.91  | -56.67  | -29.71  | -10.01  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU26 | -40.23  | -69.19  | -96.04  | -119.98 | -140.27 | -156.30 |
| XBADJ | TRU26 | -167.58 | -173.77 | -177.00 | -186.87 | -192.27 | -191.84 |
| XBADJ | TRU26 | -185.58 | -173.68 | -156.50 | -134.56 | -109.30 | -91.40  |
| XBADJ | TRU26 | -113.92 | -135.06 | -152.71 | -165.72 | -173.70 | -176.39 |
| XBADJ | TRU26 | -173.73 | -165.79 | -156.59 | -154.54 | -147.79 | -136.56 |
| XBADJ | TRU26 | -121.17 | -102.10 | -79.93  | -55.33  | -29.05  | -10.05  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU27 | -41.90  | -72.17  | -100.25 | -125.29 | -146.52 | -163.29 |
| XBADJ | TRU27 | -175.11 | -181.60 | -184.90 | -194.59 | -199.59 | -198.53 |
| XBADJ | TRU27 | -191.44 | -178.52 | -160.19 | -136.98 | -110.37 | -91.10  |
| XBADJ | TRU27 | -112.26 | -132.08 | -148.50 | -160.41 | -167.45 | -169.40 |
| XBADJ | TRU27 | -166.20 | -157.96 | -148.69 | -146.81 | -140.47 | -129.86 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU27 | -115.31 | -97.25  | -76.24  | -52.91  | -27.98  | -10.35  |
| XBADJ | TRU28 | -42.55  | -73.50  | -102.21 | -127.82 | -149.54 | -166.72 |
| XBADJ | TRU28 | -178.84 | -185.52 | -188.88 | -198.52 | -203.35 | -202.00 |
| XBADJ | TRU28 | -194.51 | -181.11 | -162.21 | -138.38 | -111.11 | -91.14  |
| XBADJ | TRU28 | -111.61 | -130.75 | -146.55 | -157.89 | -164.43 | -165.97 |
| XBADJ | TRU28 | -162.48 | -154.04 | -144.71 | -142.88 | -136.72 | -126.40 |
| XBADJ | TRU28 | -112.24 | -94.66  | -74.22  | -51.51  | -27.25  | -10.31  |
| XBADJ | TRU29 | -43.34  | -74.94  | -104.26 | -130.42 | -152.61 | -170.16 |
| XBADJ | TRU29 | -182.54 | -189.38 | -192.78 | -202.34 | -206.97 | -205.32 |
| XBADJ | TRU29 | -197.42 | -183.53 | -164.06 | -139.60 | -111.66 | -91.02  |
| XBADJ | TRU29 | -110.81 | -129.31 | -144.49 | -155.29 | -161.36 | -162.54 |
| XBADJ | TRU29 | -158.77 | -150.18 | -140.81 | -139.06 | -133.09 | -123.08 |
| XBADJ | TRU29 | -109.33 | -92.25  | -72.37  | -50.29  | -26.69  | -10.43  |
| XBADJ | TRU30 | -44.09  | -76.34  | -106.26 | -132.96 | -155.61 | -173.54 |
| XBADJ | TRU30 | -186.20 | -193.19 | -196.64 | -206.13 | -210.57 | -208.62 |
| XBADJ | TRU30 | -200.33 | -185.95 | -165.92 | -140.85 | -112.26 | -90.94  |
| XBADJ | TRU30 | -110.06 | -127.91 | -142.49 | -152.74 | -158.35 | -159.15 |
| XBADJ | TRU30 | -155.12 | -146.37 | -136.95 | -135.28 | -129.49 | -119.78 |
| XBADJ | TRU30 | -106.42 | -89.83  | -70.51  | -49.05  | -26.10  | -10.51  |
| XBADJ | TRU31 | -44.89  | -77.81  | -108.35 | -135.61 | -158.74 | -177.05 |
| XBADJ | TRU31 | -189.98 | -197.14 | -200.63 | -210.04 | -214.28 | -212.02 |
| XBADJ | TRU31 | -203.31 | -188.43 | -167.82 | -142.11 | -112.84 | -90.83  |
| XBADJ | TRU31 | -109.26 | -126.44 | -140.40 | -150.09 | -155.23 | -155.64 |
| XBADJ | TRU31 | -151.33 | -142.42 | -132.96 | -131.37 | -125.78 | -116.38 |
| XBADJ | TRU31 | -103.43 | -87.35  | -68.61  | -47.79  | -25.51  | -10.62  |
| XBADJ | TRU32 | -45.80  | -79.38  | -110.55 | -138.36 | -161.97 | -180.66 |
| XBADJ | TRU32 | -193.85 | -201.16 | -204.67 | -213.98 | -218.01 | -215.41 |
| XBADJ | TRU32 | -206.27 | -190.86 | -169.66 | -143.29 | -113.34 | -90.62  |
| XBADJ | TRU32 | -108.35 | -124.86 | -138.20 | -147.34 | -152.00 | -152.04 |
| XBADJ | TRU32 | -147.46 | -138.40 | -128.92 | -127.43 | -122.06 | -112.98 |
| XBADJ | TRU32 | -100.47 | -84.91  | -66.77  | -46.60  | -25.02  | -10.83  |
| XBADJ | TRU33 | -46.54  | -80.80  | -112.60 | -140.98 | -165.08 | -184.16 |
| XBADJ | TRU33 | -197.64 | -205.12 | -208.69 | -217.93 | -221.77 | -218.87 |
| XBADJ | TRU33 | -209.33 | -193.42 | -171.63 | -144.63 | -113.99 | -90.58  |
| XBADJ | TRU33 | -107.61 | -123.45 | -136.16 | -144.72 | -148.89 | -148.54 |
| XBADJ | TRU33 | -143.67 | -134.44 | -124.90 | -123.47 | -118.29 | -109.52 |
| XBADJ | TRU33 | -97.42  | -82.36  | -64.80  | -45.26  | -24.36  | -10.87  |
| XBADJ | TRU34 | -48.20  | -83.76  | -116.77 | -146.23 | -171.25 | -191.07 |
| XBADJ | TRU34 | -205.08 | -212.86 | -216.49 | -225.56 | -229.00 | -225.47 |
| XBADJ | TRU34 | -215.10 | -198.19 | -175.26 | -147.01 | -115.04 | -90.27  |
| XBADJ | TRU34 | -105.95 | -120.49 | -131.99 | -139.47 | -142.72 | -141.63 |
| XBADJ | TRU34 | -136.23 | -126.70 | -117.10 | -115.85 | -111.07 | -102.92 |
| XBADJ | TRU34 | -91.65  | -77.58  | -61.17  | -42.89  | -23.31  | -11.18  |
| XBADJ | TRU35 | -48.85  | -85.08  | -118.72 | -148.76 | -174.27 | -194.49 |
| XBADJ | TRU35 | -208.80 | -216.77 | -220.47 | -229.49 | -232.75 | -228.94 |
| XBADJ | TRU35 | -218.18 | -200.78 | -177.29 | -148.41 | -115.77 | -90.31  |
| XBADJ | TRU35 | -105.30 | -119.17 | -130.03 | -136.94 | -139.69 | -138.20 |
| XBADJ | TRU35 | -132.51 | -122.79 | -113.12 | -111.92 | -107.32 | -99.45  |
| XBADJ | TRU35 | -88.57  | -74.99  | -59.14  | -41.49  | -22.58  | -11.14  |
| XBADJ | TRU36 | -49.65  | -86.53  | -120.78 | -151.36 | -177.35 | -197.94 |
| XBADJ | TRU36 | -212.52 | -220.64 | -224.38 | -233.32 | -236.38 | -232.27 |
| XBADJ | TRU36 | -221.09 | -203.20 | -179.14 | -149.63 | -116.33 | -90.19  |
| XBADJ | TRU36 | -104.51 | -117.72 | -127.97 | -134.34 | -136.62 | -134.76 |
| XBADJ | TRU36 | -128.79 | -118.92 | -109.21 | -108.09 | -103.68 | -96.13  |
| XBADJ | TRU36 | -85.65  | -72.57  | -57.29  | -40.26  | -22.02  | -11.26  |
| XBADJ | TRU37 | -50.39  | -87.92  | -122.77 | -153.90 | -180.35 | -201.32 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU37 | -216.17 | -224.46 | -228.24 | -237.11 | -239.99 | -235.58 |
| XBADJ | TRU37 | -224.01 | -205.63 | -181.01 | -150.88 | -116.94 | -90.12  |
| XBADJ | TRU37 | -103.77 | -116.33 | -125.98 | -131.80 | -133.62 | -131.38 |
| XBADJ | TRU37 | -125.14 | -115.10 | -105.35 | -104.30 | -100.08 | -92.82  |
| XBADJ | TRU37 | -82.74  | -70.15  | -55.42  | -39.01  | -21.42  | -11.33  |
| XBADJ | TRU38 | -51.20  | -89.39  | -124.87 | -156.55 | -183.47 | -204.82 |
| XBADJ | TRU38 | -219.95 | -228.40 | -232.22 | -241.00 | -243.69 | -238.96 |
| XBADJ | TRU38 | -226.98 | -208.10 | -182.89 | -152.13 | -117.51 | -90.00  |
| XBADJ | TRU38 | -102.96 | -114.86 | -123.89 | -129.15 | -130.49 | -127.87 |
| XBADJ | TRU38 | -121.36 | -111.16 | -101.37 | -100.40 | -96.38  | -89.43  |
| XBADJ | TRU38 | -79.77  | -67.68  | -53.53  | -37.76  | -20.84  | -11.45  |
| XBADJ | TRU39 | -52.11  | -90.97  | -127.07 | -159.31 | -186.71 | -208.44 |
| XBADJ | TRU39 | -223.83 | -232.42 | -236.27 | -244.96 | -247.42 | -242.36 |
| XBADJ | TRU39 | -229.95 | -210.54 | -184.74 | -153.32 | -118.01 | -89.79  |
| XBADJ | TRU39 | -102.05 | -113.28 | -121.68 | -126.39 | -127.26 | -124.26 |
| XBADJ | TRU39 | -117.48 | -107.14 | -97.32  | -96.45  | -92.65  | -86.03  |
| XBADJ | TRU39 | -76.80  | -65.24  | -51.69  | -36.57  | -20.35  | -11.66  |
| XBADJ | TRU40 | -52.85  | -92.38  | -129.12 | -161.93 | -189.82 | -211.94 |
| XBADJ | TRU40 | -227.62 | -236.39 | -240.29 | -248.91 | -251.18 | -245.83 |
| XBADJ | TRU40 | -233.00 | -213.09 | -186.71 | -154.66 | -118.66 | -89.75  |
| XBADJ | TRU40 | -101.31 | -111.86 | -119.64 | -123.77 | -124.15 | -120.76 |
| XBADJ | TRU40 | -113.69 | -103.17 | -93.30  | -92.50  | -88.88  | -82.57  |
| XBADJ | TRU40 | -73.75  | -62.68  | -49.72  | -35.24  | -19.69  | -11.70  |
| XBADJ | TRU41 | -54.58  | -95.40  | -133.33 | -167.21 | -196.00 | -218.84 |
| XBADJ | TRU41 | -235.04 | -244.09 | -248.04 | -256.47 | -258.33 | -252.34 |
| XBADJ | TRU41 | -238.69 | -217.78 | -190.25 | -156.94 | -119.63 | -89.36  |
| XBADJ | TRU41 | -99.58  | -108.85 | -115.42 | -118.49 | -117.96 | -113.85 |
| XBADJ | TRU41 | -106.28 | -95.47  | -85.55  | -84.93  | -81.73  | -76.05  |
| XBADJ | TRU41 | -68.06  | -58.00  | -46.18  | -32.95  | -18.73  | -12.09  |
| XBADJ | TRU42 | -55.24  | -96.74  | -135.29 | -169.74 | -199.03 | -222.28 |
| XBADJ | TRU42 | -238.77 | -248.00 | -252.02 | -260.40 | -262.08 | -255.80 |
| XBADJ | TRU42 | -241.75 | -220.36 | -192.27 | -158.33 | -120.35 | -89.39  |
| XBADJ | TRU42 | -98.92  | -107.51 | -113.46 | -115.96 | -114.93 | -110.42 |
| XBADJ | TRU42 | -102.55 | -91.56  | -81.57  | -81.01  | -77.98  | -72.59  |
| XBADJ | TRU42 | -64.99  | -55.42  | -44.16  | -31.56  | -18.01  | -12.06  |
| XBADJ | TRU43 | -56.02  | -98.18  | -137.34 | -172.34 | -202.10 | -225.72 |
| XBADJ | TRU43 | -242.48 | -251.87 | -255.93 | -264.23 | -265.72 | -259.14 |
| XBADJ | TRU43 | -244.68 | -222.79 | -194.13 | -159.57 | -120.92 | -89.28  |
| XBADJ | TRU43 | -98.13  | -106.07 | -111.41 | -113.36 | -111.87 | -106.98 |
| XBADJ | TRU43 | -98.83  | -87.69  | -77.66  | -77.18  | -74.35  | -69.26  |
| XBADJ | TRU43 | -62.07  | -52.99  | -42.30  | -30.33  | -17.43  | -12.17  |
| XBADJ | TRU44 | -56.77  | -99.57  | -139.34 | -174.88 | -205.11 | -229.10 |
| XBADJ | TRU44 | -246.13 | -255.69 | -259.79 | -268.02 | -269.32 | -262.44 |
| XBADJ | TRU44 | -247.58 | -225.21 | -195.99 | -160.81 | -121.51 | -89.20  |
| XBADJ | TRU44 | -97.38  | -104.68 | -109.41 | -110.82 | -108.86 | -103.59 |
| XBADJ | TRU44 | -95.18  | -83.87  | -73.80  | -73.39  | -70.75  | -65.96  |
| XBADJ | TRU44 | -59.16  | -50.57  | -40.44  | -29.08  | -16.84  | -12.25  |
| XBADJ | TRU45 | -57.58  | -101.05 | -141.44 | -177.53 | -208.23 | -232.61 |
| XBADJ | TRU45 | -249.91 | -259.63 | -263.77 | -271.91 | -273.02 | -265.82 |
| XBADJ | TRU45 | -250.56 | -227.67 | -197.87 | -162.06 | -122.08 | -89.08  |
| XBADJ | TRU45 | -96.57  | -103.20 | -107.32 | -108.17 | -105.73 | -100.09 |
| XBADJ | TRU45 | -91.40  | -79.93  | -69.82  | -69.49  | -67.05  | -62.57  |
| XBADJ | TRU45 | -56.19  | -48.10  | -38.56  | -27.84  | -16.27  | -12.37  |
| XBADJ | TRU46 | -58.49  | -102.63 | -143.64 | -180.30 | -211.47 | -236.22 |
| XBADJ | TRU46 | -253.79 | -263.65 | -267.82 | -275.87 | -276.75 | -269.23 |
| XBADJ | TRU46 | -253.52 | -230.12 | -199.72 | -163.25 | -122.58 | -88.87  |
| XBADJ | TRU46 | -95.66  | -101.62 | -105.11 | -105.40 | -102.50 | -96.47  |



|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU46 | -87.52  | -75.91  | -65.77  | -65.54  | -63.32  | -59.17  |
| XBADJ | TRU46 | -53.22  | -45.66  | -36.71  | -26.65  | -15.77  | -12.58  |
| XBADJ | TTP1  | 13.05   | 3.95    | -5.26   | -14.31  | -22.93  | -30.85  |
| XBADJ | TTP1  | -37.83  | -43.66  | 0.00    | 0.00    | -84.27  | -98.17  |
| XBADJ | TTP1  | -109.10 | -116.71 | -120.77 | -121.17 | -118.64 | -123.19 |
| XBADJ | TTP1  | -167.20 | -208.20 | -243.50 | -271.39 | -291.04 | -301.85 |
| XBADJ | TTP1  | -303.48 | -295.90 | 0.00    | 0.00    | -255.80 | -230.22 |
| XBADJ | TTP1  | -197.65 | -159.07 | -115.66 | -68.73  | -19.71  | 21.74   |
| XBADJ | TTP2  | 12.42   | 2.84    | -6.82   | -16.28  | -25.24  | -33.44  |
| XBADJ | TTP2  | -40.61  | -46.56  | 0.00    | 0.00    | -86.97  | -100.64 |
| XBADJ | TTP2  | -111.26 | -118.49 | -122.13 | -122.05 | -119.03 | -123.07 |
| XBADJ | TTP2  | -166.57 | -207.09 | -241.93 | -269.42 | -288.73 | -299.26 |
| XBADJ | TTP2  | -300.70 | -293.00 | 0.00    | 0.00    | -253.10 | -227.75 |
| XBADJ | TTP2  | -195.49 | -157.28 | -114.30 | -67.84  | -19.32  | 21.62   |
| XBADJ | TTP3  | 11.89   | 1.80    | -8.35   | -18.24  | -27.58  | -36.08  |
| XBADJ | TTP3  | -43.48  | -49.56  | 0.00    | 0.00    | -89.84  | -103.28 |
| XBADJ | TTP3  | -113.60 | -120.45 | -123.65 | -123.10 | -119.56 | -123.07 |
| XBADJ | TTP3  | -166.04 | -206.05 | -240.41 | -267.46 | -286.39 | -296.62 |
| XBADJ | TTP3  | -297.83 | -290.00 | 0.00    | 0.00    | -250.23 | -225.11 |
| XBADJ | TTP3  | -193.15 | -155.32 | -112.77 | -66.80  | -18.80  | 21.62   |
| XBADJ | TTP4  | 11.10   | 0.48    | -10.14  | -20.46  | -30.16  | -38.94  |
| XBADJ | TTP4  | -46.54  | -52.72  | 0.00    | 0.00    | -92.72  | -105.90 |
| XBADJ | TTP4  | -115.86 | -122.29 | -125.02 | -123.94 | -119.86 | -122.82 |
| XBADJ | TTP4  | -165.25 | -204.73 | -238.61 | -265.24 | -283.81 | -293.76 |
| XBADJ | TTP4  | -294.78 | -286.84 | 0.00    | 0.00    | -247.35 | -222.50 |
| XBADJ | TTP4  | -190.89 | -153.48 | -111.41 | -65.95  | -18.49  | 21.37   |
| XBADJ | TTP5  | 10.45   | -0.67   | -11.77  | -22.51  | -32.57  | -41.64  |
| XBADJ | TTP5  | -49.44  | -55.74  | 0.00    | 0.00    | -95.54  | -108.48 |
| XBADJ | TTP5  | -118.11 | -124.16 | -126.44 | -124.87 | -120.27 | -122.70 |
| XBADJ | TTP5  | -164.60 | -203.58 | -236.98 | -263.19 | -281.40 | -291.06 |
| XBADJ | TTP5  | -291.87 | -283.82 | 0.00    | 0.00    | -244.52 | -219.92 |
| XBADJ | TTP5  | -188.63 | -151.61 | -109.99 | -65.02  | -18.08  | 21.25   |
| XBADJ | TTP6  | 10.06   | -1.56   | -13.13  | -24.30  | -34.73  | -44.11  |
| XBADJ | TTP6  | -52.15  | -58.60  | 0.00    | 0.00    | -98.33  | -111.07 |
| XBADJ | TTP6  | -120.43 | -126.13 | -128.00 | -125.98 | -120.90 | -122.82 |
| XBADJ | TTP6  | -164.21 | -202.69 | -235.63 | -261.40 | -279.24 | -288.59 |
| XBADJ | TTP6  | -289.17 | -280.96 | 0.00    | 0.00    | -241.74 | -217.33 |
| XBADJ | TTP6  | -186.32 | -149.65 | -108.43 | -63.91  | -17.46  | 21.37   |
| XBADJ | TTP7  | 9.32    | -2.78   | -14.80  | -26.36  | -37.12  | -46.76  |
| XBADJ | TTP7  | -54.97  | -61.52  | 0.00    | 0.00    | -100.99 | -113.47 |
| XBADJ | TTP7  | -122.51 | -127.82 | -129.25 | -126.76 | -121.17 | -122.58 |
| XBADJ | TTP7  | -163.47 | -201.47 | -233.96 | -259.34 | -276.85 | -285.94 |
| XBADJ | TTP7  | -286.34 | -278.04 | 0.00    | 0.00    | -239.08 | -214.92 |
| XBADJ | TTP7  | -184.24 | -147.95 | -107.17 | -63.14  | -17.19  | 21.13   |
| XBADJ | TTP8  | 8.69    | -3.90   | -16.36  | -28.33  | -39.44  | -49.35  |
| XBADJ | TTP8  | -57.77  | -64.42  | 0.00    | 0.00    | -103.70 | -115.95 |
| XBADJ | TTP8  | -124.68 | -129.62 | -130.62 | -127.65 | -121.56 | -122.46 |
| XBADJ | TTP8  | -162.84 | -200.35 | -232.39 | -257.37 | -274.52 | -283.34 |
| XBADJ | TTP8  | -283.55 | -275.14 | 0.00    | 0.00    | -236.36 | -212.44 |
| XBADJ | TTP8  | -182.07 | -146.16 | -105.81 | -62.25  | -16.79  | 21.01   |
| XBADJ | TTP9  | 8.16    | -4.94   | -17.88  | -30.29  | -41.77  | -51.99  |
| XBADJ | TTP9  | -60.62  | -67.42  | 0.00    | 0.00    | -106.56 | -118.59 |
| XBADJ | TTP9  | -127.01 | -131.57 | -132.14 | -128.69 | -122.08 | -122.46 |
| XBADJ | TTP9  | -162.32 | -199.31 | -230.87 | -255.41 | -272.20 | -280.71 |
| XBADJ | TTP9  | -280.69 | -272.14 | 0.00    | 0.00    | -233.51 | -209.81 |
| XBADJ | TTP9  | -179.74 | -144.21 | -104.29 | -61.21  | -16.27  | 21.01   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP10 | 7.36    | -6.26   | -19.69  | -32.52  | -44.36  | -54.86  |
| XBADJ | TTP10 | -63.69  | -70.58  | 0.00    | 0.00    | -109.45 | -121.21 |
| XBADJ | TTP10 | -129.27 | -133.42 | -133.50 | -129.53 | -122.39 | -122.21 |
| XBADJ | TTP10 | -161.52 | -197.99 | -229.07 | -253.18 | -269.61 | -277.84 |
| XBADJ | TTP10 | -277.63 | -268.98 | 0.00    | 0.00    | -230.61 | -207.19 |
| XBADJ | TTP10 | -177.47 | -142.36 | -102.92 | -60.36  | -15.96  | 20.76   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP11 | 6.72    | -7.41   | -21.31  | -34.56  | -46.77  | -57.55  |
| XBADJ | TTP11 | -66.58  | -73.60  | 0.00    | -97.35  | -112.27 | -123.78 |
| XBADJ | TTP11 | -131.53 | -135.28 | -134.92 | -130.46 | -122.80 | -122.09 |
| XBADJ | TTP11 | -160.87 | -196.84 | -227.44 | -251.14 | -267.20 | -275.14 |
| XBADJ | TTP11 | -274.73 | -265.96 | 0.00    | -244.06 | -227.80 | -204.62 |
| XBADJ | TTP11 | -175.22 | -140.50 | -101.51 | -59.43  | -15.55  | 20.64   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP12 | 6.33    | -8.29   | -22.67  | -36.35  | -48.93  | -60.02  |
| XBADJ | TTP12 | -69.29  | -76.45  | 0.00    | -100.24 | -115.05 | -126.37 |
| XBADJ | TTP12 | -133.84 | -137.25 | -136.48 | -131.57 | -123.42 | -122.21 |
| XBADJ | TTP12 | -160.48 | -195.95 | -226.09 | -249.35 | -265.04 | -272.68 |
| XBADJ | TTP12 | -272.03 | -263.11 | 0.00    | -241.16 | -225.01 | -202.03 |
| XBADJ | TTP12 | -172.91 | -138.53 | -99.94  | -58.32  | -14.93  | 20.76   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP13 | 5.64    | -9.53   | -24.42  | -38.56  | -51.52  | -62.93  |
| XBADJ | TTP13 | -72.42  | -79.71  | 0.00    | -103.46 | -118.10 | -129.16 |
| XBADJ | TTP13 | -136.28 | -139.27 | -138.02 | -132.59 | -123.88 | -122.09 |
| XBADJ | TTP13 | -159.79 | -194.72 | -224.34 | -247.15 | -262.44 | -269.77 |
| XBADJ | TTP13 | -268.89 | -259.85 | 0.00    | -237.94 | -221.96 | -199.24 |
| XBADJ | TTP13 | -170.46 | -136.51 | -98.40  | -57.31  | -14.47  | 20.64   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP14 | 5.01    | -10.64  | -25.98  | -40.52  | -53.84  | -65.52  |
| XBADJ | TTP14 | -75.20  | -82.61  | 0.00    | -106.32 | -120.81 | -131.62 |
| XBADJ | TTP14 | -138.44 | -141.06 | -139.38 | -133.47 | -124.27 | -121.97 |
| XBADJ | TTP14 | -159.17 | -193.60 | -222.77 | -245.18 | -260.13 | -267.18 |
| XBADJ | TTP14 | -266.11 | -256.95 | 0.00    | -235.09 | -219.26 | -196.77 |
| XBADJ | TTP14 | -168.30 | -134.72 | -97.05  | -56.42  | -14.09  | 20.52   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP15 | 4.48    | -11.69  | -27.50  | -42.49  | -56.18  | -68.16  |
| XBADJ | TTP15 | -78.07  | -85.61  | 0.00    | -109.32 | -123.67 | -134.27 |
| XBADJ | TTP15 | -140.78 | -143.02 | -140.91 | -134.51 | -124.80 | -121.97 |
| XBADJ | TTP15 | -158.64 | -192.56 | -221.25 | -243.22 | -257.79 | -264.54 |
| XBADJ | TTP15 | -263.24 | -253.95 | 0.00    | -232.08 | -216.39 | -194.13 |
| XBADJ | TTP15 | -165.97 | -132.76 | -95.52  | -55.38  | -13.56  | 20.52   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP16 | 3.70    | -12.99  | -29.29  | -44.70  | -58.75  | -71.02  |
| XBADJ | TTP16 | -81.12  | -88.76  | 0.00    | -112.39 | -126.56 | -136.88 |
| XBADJ | TTP16 | -143.05 | -144.86 | -142.28 | -135.37 | -125.11 | -121.73 |
| XBADJ | TTP16 | -157.85 | -191.25 | -219.46 | -241.00 | -255.22 | -261.68 |
| XBADJ | TTP16 | -260.19 | -250.80 | 0.00    | -229.01 | -213.51 | -191.51 |
| XBADJ | TTP16 | -163.70 | -130.91 | -94.15  | -54.53  | -13.24  | 20.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP17 | 3.05    | -14.15  | -30.92  | -46.75  | -61.16  | -73.72  |
| XBADJ | TTP17 | -84.03  | -91.79  | 0.00    | -115.38 | -129.39 | -139.46 |
| XBADJ | TTP17 | -145.31 | -146.73 | -143.70 | -136.30 | -125.52 | -121.61 |
| XBADJ | TTP17 | -157.21 | -190.10 | -217.83 | -238.95 | -252.80 | -258.98 |
| XBADJ | TTP17 | -257.28 | -247.77 | 0.00    | -226.03 | -210.68 | -188.93 |
| XBADJ | TTP17 | -161.44 | -129.05 | -92.73  | -53.59  | -12.83  | 20.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP18 | 2.66    | -15.04  | -32.28  | -48.54  | -63.32  | -76.19  |
| XBADJ | TTP18 | -86.73  | -94.64  | 0.00    | -118.27 | -132.17 | -142.05 |
| XBADJ | TTP18 | -147.62 | -148.70 | -145.26 | -137.41 | -126.14 | -121.73 |
| XBADJ | TTP18 | -156.82 | -189.21 | -216.48 | -237.16 | -250.64 | -256.51 |
| XBADJ | TTP18 | -254.58 | -244.92 | 0.00    | -223.13 | -207.90 | -186.34 |
| XBADJ | TTP18 | -159.13 | -127.08 | -91.17  | -52.48  | -12.21  | 20.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP19 | 1.85    | -16.40  | -34.14  | -50.84  | -66.00  | -79.16  |
| XBADJ | TTP19 | -89.91  | -97.93  | 0.00    | -121.47 | -135.18 | -144.78 |
| XBADJ | TTP19 | -149.98 | -150.62 | -146.69 | -138.30 | -126.47 | -121.48 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP19 | -156.00 | -187.85 | -214.62 | -234.86 | -247.96 | -253.54 |
| XBADJ | TTP19 | -251.40 | -241.63 | 0.00    | -219.94 | -204.89 | -183.62 |
| XBADJ | TTP19 | -156.77 | -125.15 | -89.74  | -51.59  | -11.88  | 20.03   |
| XBADJ | TTP20 | 1.22    | -17.51  | -35.70  | -52.81  | -68.32  | -81.75  |
| XBADJ | TTP20 | -92.69  | -100.82 | 0.00    | -124.32 | -137.88 | -147.25 |
| XBADJ | TTP20 | -152.14 | -152.41 | -148.05 | -139.19 | -126.86 | -121.36 |
| XBADJ | TTP20 | -155.37 | -186.74 | -213.05 | -232.89 | -245.65 | -250.95 |
| XBADJ | TTP20 | -248.62 | -238.74 | 0.00    | -217.08 | -202.19 | -181.15 |
| XBADJ | TTP20 | -154.61 | -123.37 | -88.38  | -50.71  | -11.49  | 19.91   |
| XBADJ | TTP21 | 0.69    | -18.55  | -37.23  | -54.77  | -70.65  | -84.39  |
| XBADJ | TTP21 | -95.56  | -103.83 | 0.00    | -127.33 | -140.75 | -149.89 |
| XBADJ | TTP21 | -154.48 | -154.37 | -149.57 | -140.23 | -127.39 | -121.36 |
| XBADJ | TTP21 | -154.85 | -185.70 | -211.53 | -230.93 | -243.31 | -248.30 |
| XBADJ | TTP21 | -245.75 | -235.73 | 0.00    | -214.08 | -199.32 | -178.51 |
| XBADJ | TTP21 | -152.27 | -121.41 | -86.86  | -49.66  | -10.96  | 19.91   |
| XBADJ | TTP22 | -0.09   | -19.86  | -39.02  | -56.99  | -73.23  | -87.25  |
| XBADJ | TTP22 | -98.61  | -106.98 | 0.00    | -130.40 | -143.63 | -152.50 |
| XBADJ | TTP22 | -156.74 | -156.22 | -150.94 | -141.09 | -127.70 | -121.12 |
| XBADJ | TTP22 | -154.06 | -184.39 | -209.74 | -228.71 | -240.74 | -245.45 |
| XBADJ | TTP22 | -242.70 | -232.58 | 0.00    | -211.01 | -196.43 | -175.89 |
| XBADJ | TTP22 | -150.01 | -119.56 | -85.48  | -48.81  | -10.65  | 19.67   |
| XBADJ | TTP23 | -0.74   | -21.01  | -40.64  | -59.04  | -75.64  | -89.95  |
| XBADJ | TTP23 | -101.52 | -110.01 | 0.00    | -133.38 | -146.46 | -155.09 |
| XBADJ | TTP23 | -159.00 | -158.09 | -152.37 | -142.02 | -128.11 | -121.00 |
| XBADJ | TTP23 | -153.41 | -183.24 | -208.11 | -226.66 | -238.32 | -242.75 |
| XBADJ | TTP23 | -239.79 | -229.55 | 0.00    | -208.02 | -193.61 | -173.31 |
| XBADJ | TTP23 | -147.75 | -117.69 | -84.06  | -47.88  | -10.24  | 19.55   |
| XBADJ | TTP24 | -1.13   | -21.90  | -42.00  | -60.83  | -77.80  | -92.42  |
| XBADJ | TTP24 | -104.22 | -112.86 | 0.00    | -136.28 | -149.24 | -157.67 |
| XBADJ | TTP24 | -161.31 | -160.05 | -153.93 | -143.13 | -128.74 | -121.12 |
| XBADJ | TTP24 | -153.02 | -182.35 | -206.75 | -224.88 | -236.16 | -240.28 |
| XBADJ | TTP24 | -237.09 | -226.70 | 0.00    | -205.13 | -190.82 | -170.72 |
| XBADJ | TTP24 | -145.43 | -115.72 | -82.50  | -46.77  | -9.61   | 19.67   |
| XBADJ | TTP25 | -1.74   | -22.97  | -43.50  | -62.72  | -80.03  | -94.90  |
| XBADJ | TTP25 | -106.89 | -115.64 | 0.00    | -139.01 | -151.83 | -160.04 |
| XBADJ | TTP25 | -163.38 | -161.76 | -155.23 | -143.97 | -129.10 | -121.00 |
| XBADJ | TTP25 | -152.42 | -181.28 | -205.25 | -222.98 | -233.94 | -237.79 |
| XBADJ | TTP25 | -234.42 | -223.92 | 0.00    | -202.39 | -188.23 | -168.36 |
| XBADJ | TTP25 | -143.36 | -114.02 | -81.20  | -45.92  | -9.25   | 19.55   |
| XBADJ | TTP26 | -2.36   | -24.08  | -45.07  | -64.69  | -82.34  | -97.49  |
| XBADJ | TTP26 | -109.68 | -118.54 | 0.00    | -141.87 | -154.54 | -162.51 |
| XBADJ | TTP26 | -165.54 | -163.55 | -156.58 | -144.86 | -129.49 | -120.88 |
| XBADJ | TTP26 | -151.79 | -180.17 | -203.69 | -221.02 | -231.63 | -235.20 |
| XBADJ | TTP26 | -231.63 | -221.02 | 0.00    | -199.54 | -185.53 | -165.89 |
| XBADJ | TTP26 | -141.20 | -112.23 | -79.85  | -45.04  | -8.86   | 19.43   |
| XBADJ | TTP27 | -2.89   | -25.12  | -46.59  | -66.65  | -84.68  | -100.13 |
| XBADJ | TTP27 | -112.55 | -121.54 | 0.00    | -144.87 | -157.40 | -165.15 |
| XBADJ | TTP27 | -167.88 | -165.51 | -158.11 | -145.90 | -130.02 | -120.88 |
| XBADJ | TTP27 | -151.26 | -179.12 | -202.16 | -219.05 | -229.29 | -232.56 |
| XBADJ | TTP27 | -228.77 | -218.02 | 0.00    | -196.53 | -182.66 | -163.25 |
| XBADJ | TTP27 | -138.87 | -110.27 | -78.32  | -43.99  | -8.33   | 19.43   |
| XBADJ | TTP28 | -3.69   | -26.44  | -48.39  | -68.87  | -87.26  | -102.99 |
| XBADJ | TTP28 | -115.60 | -124.69 | 0.00    | -147.94 | -160.29 | -167.76 |
| XBADJ | TTP28 | -170.14 | -167.35 | -159.47 | -146.75 | -130.33 | -120.63 |
| XBADJ | TTP28 | -150.47 | -177.81 | -200.36 | -216.83 | -226.71 | -229.70 |
| XBADJ | TTP28 | -225.71 | -214.87 | 0.00    | -193.46 | -179.78 | -160.63 |
| XBADJ | TTP28 | -136.61 | -108.43 | -76.96  | -43.15  | -8.03   | 19.18   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP29 | -4.33   | -27.60  | -50.02  | -70.92  | -89.67  | -105.69 |
| XBADJ | TTP29 | -118.51 | -127.72 | 0.00    | -150.92 | -163.11 | -170.34 |
| XBADJ | TTP29 | -172.40 | -169.22 | -160.89 | -147.68 | -130.74 | -120.51 |
| XBADJ | TTP29 | -149.82 | -176.65 | -198.74 | -214.78 | -224.30 | -227.00 |
| XBADJ | TTP29 | -222.81 | -211.84 | 0.00    | -190.48 | -176.96 | -158.05 |
| XBADJ | TTP29 | -134.35 | -106.56 | -75.54  | -42.22  | -7.61   | 19.06   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP30 | -4.72   | -28.48  | -51.37  | -72.71  | -91.83  | -108.16 |
| XBADJ | TTP30 | -121.21 | -130.57 | 0.00    | -153.82 | -165.90 | -172.93 |
| XBADJ | TTP30 | -174.71 | -171.18 | -162.46 | -148.79 | -131.36 | -120.63 |
| XBADJ | TTP30 | -149.43 | -175.77 | -197.38 | -212.99 | -222.14 | -224.53 |
| XBADJ | TTP30 | -220.10 | -208.99 | 0.00    | -187.59 | -174.17 | -155.46 |
| XBADJ | TTP30 | -132.03 | -104.59 | -73.97  | -41.11  | -6.99   | 19.18   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP31 | -5.18   | -29.49  | -52.92  | -74.73  | -94.27  | -110.95 |
| XBADJ | TTP31 | -124.26 | -133.79 | 0.00    | -157.08 | -169.03 | -175.84 |
| XBADJ | TTP31 | -177.31 | -173.39 | -164.20 | -150.03 | -132.05 | -120.75 |
| XBADJ | TTP31 | -148.98 | -174.75 | -195.84 | -210.97 | -219.69 | -221.74 |
| XBADJ | TTP31 | -217.05 | -205.77 | 0.00    | -184.32 | -171.04 | -152.56 |
| XBADJ | TTP31 | -129.44 | -102.39 | -72.22  | -39.87  | -6.30   | 19.30   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP32 | -5.80   | -30.61  | -54.48  | -76.70  | -96.59  | -113.54 |
| XBADJ | TTP32 | -127.05 | -136.69 | 0.00    | -159.94 | -171.73 | -178.31 |
| XBADJ | TTP32 | -179.47 | -175.18 | -165.56 | -150.91 | -132.44 | -120.63 |
| XBADJ | TTP32 | -148.35 | -173.64 | -194.27 | -209.00 | -217.38 | -219.15 |
| XBADJ | TTP32 | -214.27 | -202.87 | 0.00    | -181.47 | -168.34 | -150.09 |
| XBADJ | TTP32 | -127.28 | -100.60 | -70.87  | -38.98  | -5.91   | 19.18   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP33 | -6.33   | -31.65  | -56.00  | -78.66  | -98.92  | -116.18 |
| XBADJ | TTP33 | -129.91 | -139.69 | 0.00    | -162.94 | -174.60 | -180.95 |
| XBADJ | TTP33 | -181.81 | -177.14 | -167.09 | -151.96 | -132.97 | -120.63 |
| XBADJ | TTP33 | -147.82 | -172.60 | -192.75 | -207.04 | -215.04 | -216.51 |
| XBADJ | TTP33 | -211.40 | -199.87 | 0.00    | -178.47 | -165.47 | -147.45 |
| XBADJ | TTP33 | -124.94 | -98.64  | -69.34  | -37.94  | -5.38   | 19.18   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP34 | -7.12   | -32.95  | -57.79  | -80.87  | -101.50 | -119.04 |
| XBADJ | TTP34 | -132.96 | -142.85 | 0.00    | -166.01 | -177.48 | -183.57 |
| XBADJ | TTP34 | -184.07 | -178.98 | -168.46 | -152.81 | -133.28 | -120.39 |
| XBADJ | TTP34 | -147.04 | -171.29 | -190.96 | -204.83 | -212.47 | -213.66 |
| XBADJ | TTP34 | -208.35 | -196.71 | 0.00    | -175.40 | -162.58 | -144.83 |
| XBADJ | TTP34 | -122.67 | -96.79  | -67.97  | -37.08  | -5.07   | 18.94   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP35 | -7.76   | -34.11  | -59.42  | -82.93  | -103.91 | -121.74 |
| XBADJ | TTP35 | -135.87 | -145.87 | 0.00    | -168.99 | -180.31 | -186.15 |
| XBADJ | TTP35 | -186.33 | -180.85 | -169.88 | -153.74 | -133.69 | -120.27 |
| XBADJ | TTP35 | -146.39 | -170.14 | -189.33 | -202.77 | -210.06 | -210.95 |
| XBADJ | TTP35 | -205.44 | -193.69 | 0.00    | -172.41 | -159.76 | -142.25 |
| XBADJ | TTP35 | -120.42 | -94.92  | -66.55  | -36.15  | -4.66   | 18.82   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP36 | -8.15   | -35.00  | -60.78  | -84.71  | -106.07 | -124.21 |
| XBADJ | TTP36 | -138.57 | -148.73 | 0.00    | -171.89 | -183.09 | -188.74 |
| XBADJ | TTP36 | -188.65 | -182.82 | -171.44 | -154.85 | -134.32 | -120.39 |
| XBADJ | TTP36 | -146.00 | -169.25 | -187.98 | -200.99 | -207.90 | -208.48 |
| XBADJ | TTP36 | -202.74 | -190.83 | 0.00    | -169.52 | -156.97 | -139.66 |
| XBADJ | TTP36 | -118.10 | -92.96  | -64.99  | -35.04  | -4.03   | 18.94   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP37 | -8.99   | -36.40  | -62.70  | -87.10  | -108.85 | -127.29 |
| XBADJ | TTP37 | -141.86 | -152.13 | 0.00    | -175.20 | -186.21 | -191.57 |
| XBADJ | TTP37 | -191.10 | -184.82 | -172.93 | -155.79 | -134.67 | -120.14 |
| XBADJ | TTP37 | -145.16 | -167.85 | -186.06 | -198.61 | -205.12 | -205.41 |
| XBADJ | TTP37 | -199.45 | -187.43 | 0.00    | -166.20 | -153.85 | -136.83 |
| XBADJ | TTP37 | -115.65 | -90.96  | -63.50  | -34.11  | -3.69   | 18.69   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP38 | -9.62   | -37.51  | -64.26  | -89.06  | -111.16 | -129.88 |
| XBADJ | TTP38 | -144.65 | -155.02 | 0.00    | -178.06 | -188.92 | -194.03 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP38 | -193.26 | -186.61 | -174.29 | -156.67 | -135.05 | -120.02 |
| XBADJ | TTP38 | -144.54 | -166.74 | -184.49 | -196.64 | -202.81 | -202.82 |
| XBADJ | TTP38 | -196.66 | -184.54 | 0.00    | -163.35 | -151.15 | -134.36 |
| XBADJ | TTP38 | -113.49 | -89.17  | -62.14  | -33.22  | -3.30   | 18.57   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP39 | -10.15  | -38.55  | -65.79  | -91.02  | -113.50 | -132.52 |
| XBADJ | TTP39 | -147.51 | -158.03 | 0.00    | -181.06 | -191.78 | -196.68 |
| XBADJ | TTP39 | -195.59 | -188.57 | -175.81 | -157.72 | -135.58 | -120.02 |
| XBADJ | TTP39 | -144.01 | -165.70 | -182.97 | -194.68 | -200.47 | -200.18 |
| XBADJ | TTP39 | -193.80 | -181.53 | 0.00    | -160.34 | -148.28 | -131.72 |
| XBADJ | TTP39 | -111.15 | -87.21  | -60.62  | -32.18  | -2.77   | 18.57   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP40 | -10.93  | -39.86  | -67.58  | -93.24  | -116.07 | -135.37 |
| XBADJ | TTP40 | -150.57 | -161.18 | 0.00    | -184.13 | -194.67 | -199.29 |
| XBADJ | TTP40 | -197.86 | -190.41 | -177.18 | -158.57 | -135.90 | -119.78 |
| XBADJ | TTP40 | -143.22 | -164.39 | -181.18 | -192.46 | -197.90 | -197.32 |
| XBADJ | TTP40 | -190.75 | -178.38 | 0.00    | -157.27 | -145.40 | -129.10 |
| XBADJ | TTP40 | -108.89 | -85.36  | -59.24  | -31.33  | -2.45   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP41 | -11.58  | -41.01  | -69.20  | -95.29  | -118.48 | -138.08 |
| XBADJ | TTP41 | -153.47 | -164.21 | 0.00    | -187.12 | -197.49 | -201.87 |
| XBADJ | TTP41 | -200.12 | -192.28 | -178.61 | -159.50 | -136.31 | -119.66 |
| XBADJ | TTP41 | -142.58 | -163.23 | -179.55 | -190.41 | -195.48 | -194.62 |
| XBADJ | TTP41 | -187.84 | -175.35 | 0.00    | -154.29 | -142.57 | -126.52 |
| XBADJ | TTP41 | -106.63 | -83.49  | -57.82  | -30.39  | -2.04   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP42 | -11.97  | -41.90  | -70.56  | -97.08  | -120.64 | -140.54 |
| XBADJ | TTP42 | -156.18 | -167.06 | 0.00    | -190.01 | -200.28 | -204.46 |
| XBADJ | TTP42 | -202.43 | -194.25 | -180.17 | -160.61 | -136.93 | -119.78 |
| XBADJ | TTP42 | -142.19 | -162.35 | -178.19 | -188.62 | -193.32 | -192.15 |
| XBADJ | TTP42 | -185.14 | -172.50 | 0.00    | -151.39 | -139.79 | -123.93 |
| XBADJ | TTP42 | -104.31 | -81.52  | -56.26  | -29.28  | -1.42   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP43 | -12.45  | -42.86  | -71.96  | -98.88  | -122.79 | -142.97 |
| XBADJ | TTP43 | -158.81 | -169.82 | 0.00    | -192.77 | -202.91 | -206.89 |
| XBADJ | TTP43 | -204.58 | -196.05 | -181.57 | -161.57 | -137.42 | -119.78 |
| XBADJ | TTP43 | -141.70 | -161.39 | -176.79 | -186.82 | -191.18 | -189.72 |
| XBADJ | TTP43 | -182.51 | -169.74 | 0.00    | -148.64 | -137.16 | -121.51 |
| XBADJ | TTP43 | -102.17 | -79.73  | -54.86  | -28.33  | -0.93   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP44 | -13.08  | -43.97  | -73.52  | -100.85 | -125.10 | -145.56 |
| XBADJ | TTP44 | -161.59 | -172.71 | 0.00    | -195.62 | -205.61 | -209.36 |
| XBADJ | TTP44 | -206.74 | -197.84 | -182.93 | -162.46 | -137.81 | -119.66 |
| XBADJ | TTP44 | -141.08 | -160.28 | -175.23 | -184.86 | -188.87 | -187.14 |
| XBADJ | TTP44 | -179.72 | -166.85 | 0.00    | -145.78 | -134.45 | -119.04 |
| XBADJ | TTP44 | -100.01 | -77.94  | -53.50  | -27.44  | -0.54   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP45 | -13.61  | -45.01  | -75.05  | -102.81 | -127.44 | -148.20 |
| XBADJ | TTP45 | -164.46 | -175.72 | 0.00    | -198.63 | -208.48 | -212.00 |
| XBADJ | TTP45 | -209.07 | -199.80 | -184.45 | -163.50 | -138.34 | -119.66 |
| XBADJ | TTP45 | -140.55 | -159.24 | -173.70 | -182.90 | -186.53 | -184.49 |
| XBADJ | TTP45 | -176.86 | -163.84 | 0.00    | -142.78 | -131.59 | -116.40 |
| XBADJ | TTP45 | -97.67  | -75.98  | -51.98  | -26.40  | -0.01   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP46 | -14.40  | -46.33  | -76.85  | -105.03 | -130.02 | -151.06 |
| XBADJ | TTP46 | -167.51 | -178.87 | 0.00    | -201.70 | -211.36 | -214.61 |
| XBADJ | TTP46 | -211.33 | -201.64 | -185.81 | -164.34 | -138.64 | -119.41 |
| XBADJ | TTP46 | -139.75 | -157.92 | -171.91 | -180.67 | -183.95 | -181.63 |
| XBADJ | TTP46 | -173.80 | -160.69 | 0.00    | -139.71 | -128.70 | -113.79 |
| XBADJ | TTP46 | -95.41  | -74.14  | -50.61  | -25.55  | 0.29    | 17.96   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP47 | -15.05  | -47.48  | -78.48  | -107.08 | -132.43 | -153.76 |
| XBADJ | TTP47 | -170.42 | -181.90 | 0.00    | -204.68 | -214.19 | -217.19 |
| XBADJ | TTP47 | -213.59 | -203.51 | -187.23 | -165.28 | -139.05 | -119.29 |
| XBADJ | TTP47 | -139.10 | -156.76 | -170.28 | -178.62 | -181.53 | -178.93 |
| XBADJ | TTP47 | -170.89 | -157.66 | 0.00    | -136.73 | -125.88 | -111.21 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP47 | -93.15  | -72.27  | -49.19  | -24.62  | 0.70    | 17.84   |
| XBADJ | TTP48 | -15.44  | -48.37  | -79.83  | -108.87 | -134.59 | -156.23 |
| XBADJ | TTP48 | -173.12 | -184.75 | 0.00    | -207.58 | -216.97 | -219.78 |
| XBADJ | TTP48 | -215.91 | -205.47 | -188.80 | -166.39 | -139.68 | -119.41 |
| XBADJ | TTP48 | -138.72 | -155.88 | -168.92 | -176.84 | -179.37 | -176.46 |
| XBADJ | TTP48 | -168.19 | -154.81 | 0.00    | -133.83 | -123.09 | -108.62 |
| XBADJ | TTP48 | -90.84  | -70.30  | -47.63  | -23.51  | 1.33    | 17.96   |
| XBADJ | TTP49 | -16.15  | -49.65  | -81.64  | -111.15 | -137.28 | -159.24 |
| XBADJ | TTP49 | -176.37 | -188.13 | 0.00    | -210.91 | -220.14 | -222.67 |
| XBADJ | TTP49 | -218.44 | -207.57 | -190.40 | -167.44 | -140.15 | -119.29 |
| XBADJ | TTP49 | -138.00 | -154.60 | -167.11 | -174.55 | -176.68 | -173.45 |
| XBADJ | TTP49 | -164.94 | -151.43 | 0.00    | -130.49 | -119.93 | -105.72 |
| XBADJ | TTP49 | -88.30  | -68.20  | -46.03  | -22.46  | 1.80    | 17.84   |
| XBADJ | TTP50 | -16.78  | -50.76  | -83.20  | -113.12 | -139.60 | -161.83 |
| XBADJ | TTP50 | -179.15 | -191.03 | 0.00    | -213.77 | -222.84 | -225.14 |
| XBADJ | TTP50 | -220.60 | -209.36 | -191.76 | -168.33 | -140.54 | -119.17 |
| XBADJ | TTP50 | -137.38 | -153.49 | -165.55 | -172.58 | -174.37 | -170.86 |
| XBADJ | TTP50 | -162.16 | -148.53 | 0.00    | -127.64 | -117.23 | -103.25 |
| XBADJ | TTP50 | -86.14  | -66.42  | -44.67  | -21.57  | 2.19    | 17.72   |
| XBADJ | TTP51 | -17.30  | -51.80  | -84.73  | -115.08 | -141.93 | -164.48 |
| XBADJ | TTP51 | -182.02 | -194.03 | 0.00    | -216.77 | -225.71 | -227.78 |
| XBADJ | TTP51 | -222.94 | -211.32 | -193.28 | -169.37 | -141.07 | -119.17 |
| XBADJ | TTP51 | -136.85 | -152.44 | -164.03 | -170.62 | -172.03 | -168.22 |
| XBADJ | TTP51 | -159.29 | -145.53 | 0.00    | -124.63 | -114.36 | -100.61 |
| XBADJ | TTP51 | -83.81  | -64.46  | -43.15  | -20.53  | 2.72    | 17.72   |
| XBADJ | TTP52 | -18.09  | -53.11  | -86.52  | -117.29 | -144.51 | -167.33 |
| XBADJ | TTP52 | -185.07 | -197.19 | 0.00    | -219.84 | -228.59 | -230.40 |
| XBADJ | TTP52 | -225.20 | -213.17 | -194.65 | -170.22 | -141.38 | -118.93 |
| XBADJ | TTP52 | -136.06 | -151.14 | -162.24 | -168.41 | -169.46 | -165.36 |
| XBADJ | TTP52 | -156.24 | -142.37 | 0.00    | -121.56 | -111.47 | -98.00  |
| XBADJ | TTP52 | -81.54  | -62.61  | -41.78  | -19.67  | 3.03    | 17.48   |
| XBADJ | TTP53 | -18.75  | -54.28  | -88.15  | -119.35 | -146.93 | -170.04 |
| XBADJ | TTP53 | -187.98 | -200.21 | 0.00    | -222.82 | -231.41 | -232.98 |
| XBADJ | TTP53 | -227.46 | -215.03 | -196.07 | -171.15 | -141.78 | -118.80 |
| XBADJ | TTP53 | -135.41 | -149.97 | -160.60 | -166.35 | -167.04 | -162.66 |
| XBADJ | TTP53 | -153.33 | -139.35 | 0.00    | -118.58 | -108.65 | -95.42  |
| XBADJ | TTP53 | -79.29  | -60.75  | -40.36  | -18.75  | 3.43    | 17.35   |
| XBADJ | TTP54 | -19.13  | -55.15  | -89.50  | -121.13 | -149.08 | -172.50 |
| XBADJ | TTP54 | -190.68 | -203.07 | 0.00    | -225.72 | -234.20 | -235.57 |
| XBADJ | TTP54 | -229.78 | -217.00 | -197.64 | -172.27 | -142.42 | -118.93 |
| XBADJ | TTP54 | -135.03 | -149.10 | -159.25 | -164.57 | -164.89 | -160.19 |
| XBADJ | TTP54 | -150.63 | -136.49 | 0.00    | -115.68 | -105.86 | -92.83  |
| XBADJ | TTP54 | -76.97  | -58.77  | -38.79  | -17.63  | 4.07    | 17.48   |
| XBADJ | TTP55 | -20.02  | -56.54  | -91.34  | -123.37 | -151.65 | -175.32 |
| XBADJ | TTP55 | -193.66 | -206.12 | 0.00    | -228.65 | -236.93 | -238.02 |
| XBADJ | TTP55 | -231.87 | -218.68 | -198.84 | -172.96 | -142.58 | -118.56 |
| XBADJ | TTP55 | -134.14 | -147.71 | -157.41 | -162.33 | -162.32 | -157.38 |
| XBADJ | TTP55 | -147.65 | -133.44 | 0.00    | -112.75 | -103.13 | -90.38  |
| XBADJ | TTP55 | -74.88  | -57.10  | -37.59  | -16.94  | 4.23    | 17.11   |
| XBADJ | TTP56 | -20.65  | -57.65  | -92.91  | -125.34 | -153.97 | -177.92 |
| XBADJ | TTP56 | -196.46 | -209.03 | 0.00    | -231.52 | -239.65 | -240.49 |
| XBADJ | TTP56 | -234.04 | -220.47 | -200.20 | -173.85 | -142.97 | -118.44 |
| XBADJ | TTP56 | -133.51 | -146.59 | -155.84 | -160.36 | -160.00 | -154.78 |
| XBADJ | TTP56 | -144.85 | -130.53 | 0.00    | -109.89 | -100.42 | -87.90  |
| XBADJ | TTP56 | -72.71  | -55.31  | -36.23  | -16.05  | 4.62    | 16.99   |
| XBADJ | TTP57 | -21.17  | -58.69  | -94.43  | -127.30 | -156.30 | -180.55 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP57 | -199.31 | -212.02 | 0.00    | -234.51 | -242.50 | -243.13 |
| XBADJ | TTP57 | -236.37 | -222.42 | -201.72 | -174.89 | -143.50 | -118.44 |
| XBADJ | TTP57 | -132.98 | -145.55 | -154.32 | -158.40 | -157.67 | -152.14 |
| XBADJ | TTP57 | -142.00 | -127.54 | 0.00    | -106.90 | -97.56  | -85.27  |
| XBADJ | TTP57 | -70.38  | -53.36  | -34.71  | -15.01  | 5.15    | 16.99   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP58 | -21.96  | -60.00  | -96.22  | -129.52 | -158.88 | -183.42 |
| XBADJ | TTP58 | -202.38 | -215.19 | 0.00    | -237.59 | -245.40 | -245.75 |
| XBADJ | TTP58 | -238.64 | -224.27 | -203.10 | -175.75 | -143.81 | -118.20 |
| XBADJ | TTP58 | -132.19 | -144.24 | -152.53 | -156.18 | -155.09 | -149.28 |
| XBADJ | TTP58 | -138.94 | -124.37 | 0.00    | -103.82 | -94.67  | -82.64  |
| XBADJ | TTP58 | -68.11  | -51.50  | -33.33  | -14.15  | 5.46    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP59 | -22.62  | -61.17  | -97.86  | -131.57 | -161.29 | -186.11 |
| XBADJ | TTP59 | -205.28 | -218.20 | 0.00    | -240.56 | -248.21 | -248.32 |
| XBADJ | TTP59 | -240.88 | -226.13 | -204.50 | -176.66 | -144.21 | -118.07 |
| XBADJ | TTP59 | -131.54 | -143.08 | -150.90 | -154.13 | -152.67 | -146.58 |
| XBADJ | TTP59 | -136.04 | -121.36 | 0.00    | -100.84 | -91.86  | -80.08  |
| XBADJ | TTP59 | -65.86  | -49.65  | -31.92  | -13.23  | 5.86    | 16.62   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP60 | -23.00  | -62.04  | -99.20  | -133.35 | -163.45 | -188.58 |
| XBADJ | TTP60 | -207.98 | -221.06 | 0.00    | -243.46 | -251.00 | -250.91 |
| XBADJ | TTP60 | -243.20 | -228.11 | -206.08 | -177.78 | -144.85 | -118.20 |
| XBADJ | TTP60 | -131.16 | -142.21 | -149.55 | -152.35 | -150.52 | -144.12 |
| XBADJ | TTP60 | -133.34 | -118.50 | 0.00    | -97.95  | -89.07  | -77.48  |
| XBADJ | TTP60 | -63.54  | -47.67  | -30.35  | -12.11  | 6.50    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP61 | -23.45  | -63.05  | -100.75 | -135.37 | -165.89 | -191.37 |
| XBADJ | TTP61 | -211.03 | 0.00    | 0.00    | -246.72 | -254.13 | -253.82 |
| XBADJ | TTP61 | -245.80 | -230.31 | -207.82 | -179.02 | -145.54 | -118.32 |
| XBADJ | TTP61 | -130.71 | -141.19 | -148.01 | -150.33 | -148.08 | -141.33 |
| XBADJ | TTP61 | -130.29 | 0.00    | 0.00    | -94.69  | -85.93  | -74.57  |
| XBADJ | TTP61 | -60.94  | -45.46  | -28.60  | -10.87  | 7.19    | 16.87   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP62 | -24.08  | -64.17  | -102.31 | -137.35 | -168.21 | -193.96 |
| XBADJ | TTP62 | -213.82 | 0.00    | 0.00    | -249.58 | -256.84 | -256.30 |
| XBADJ | TTP62 | -247.97 | -232.10 | -209.19 | -179.91 | -145.93 | -118.20 |
| XBADJ | TTP62 | -130.08 | -140.08 | -146.44 | -148.35 | -145.76 | -138.73 |
| XBADJ | TTP62 | -127.49 | 0.00    | 0.00    | -91.82  | -83.22  | -72.10  |
| XBADJ | TTP62 | -58.78  | -43.67  | -27.24  | -9.98   | 7.58    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP63 | -24.60  | -65.21  | -103.83 | -139.30 | -170.54 | -196.60 |
| XBADJ | TTP63 | -216.68 | 0.00    | 0.00    | -252.58 | -259.70 | -258.93 |
| XBADJ | TTP63 | -250.30 | -234.06 | -210.71 | -180.95 | -146.46 | -118.20 |
| XBADJ | TTP63 | -129.55 | -139.04 | -144.92 | -146.40 | -143.43 | -136.10 |
| XBADJ | TTP63 | -124.63 | 0.00    | 0.00    | -88.83  | -80.37  | -69.46  |
| XBADJ | TTP63 | -56.45  | -41.72  | -25.72  | -8.94   | 8.11    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP64 | -25.40  | -66.53  | -105.64 | -141.53 | -173.13 | -199.47 |
| XBADJ | TTP64 | -219.74 | 0.00    | 0.00    | -255.66 | -262.59 | -261.55 |
| XBADJ | TTP64 | -252.57 | -235.90 | -212.07 | -181.80 | -146.76 | -117.95 |
| XBADJ | TTP64 | -128.75 | -137.72 | -143.12 | -144.17 | -140.84 | -133.23 |
| XBADJ | TTP64 | -121.57 | 0.00    | 0.00    | -85.75  | -77.47  | -66.84  |
| XBADJ | TTP64 | -54.18  | -39.87  | -24.35  | -8.09   | 8.41    | 16.50   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP65 | -26.05  | -67.68  | -107.26 | -143.58 | -175.54 | -202.16 |
| XBADJ | TTP65 | -222.64 | 0.00    | 0.00    | -258.63 | -265.41 | -264.13 |
| XBADJ | TTP65 | -254.82 | -237.77 | -213.49 | -182.73 | -147.17 | -117.83 |
| XBADJ | TTP65 | -128.11 | -136.57 | -141.49 | -142.12 | -138.43 | -130.54 |
| XBADJ | TTP65 | -118.67 | 0.00    | 0.00    | -82.78  | -74.66  | -64.27  |
| XBADJ | TTP65 | -51.93  | -38.01  | -22.94  | -7.17   | 8.82    | 16.38   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP66 | -26.44  | -68.57  | -108.62 | -145.36 | -177.70 | -204.63 |
| XBADJ | TTP66 | -225.34 | 0.00    | 0.00    | -261.53 | -268.19 | -266.72 |
| XBADJ | TTP66 | -257.13 | -239.74 | -215.05 | -183.84 | -147.80 | -117.95 |
| XBADJ | TTP66 | -127.72 | -135.68 | -140.14 | -140.34 | -136.27 | -128.07 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP66 | -115.97 | 0.00    | 0.00    | -79.88  | -71.87  | -61.68  |
| XBADJ | TTP66 | -49.62  | -36.04  | -21.37  | -6.06   | 9.45    | 16.50   |
| XBADJ | TTP67 | -27.20  | -69.84  | -110.35 | -147.51 | -180.19 | -207.39 |
| XBADJ | TTP67 | -228.29 | 0.00    | 0.00    | -264.49 | -270.98 | -269.24 |
| XBADJ | TTP67 | -259.31 | -241.51 | -216.37 | -184.66 | -148.09 | -117.71 |
| XBADJ | TTP67 | -126.95 | -134.41 | -138.41 | -138.19 | -133.78 | -125.31 |
| XBADJ | TTP67 | -113.02 | 0.00    | 0.00    | -76.92  | -69.09  | -59.16  |
| XBADJ | TTP67 | -47.43  | -34.27  | -20.06  | -5.24   | 9.74    | 16.26   |
| XBADJ | TTP68 | -27.83  | -70.95  | -111.91 | -149.48 | -182.50 | -209.98 |
| XBADJ | TTP68 | -231.08 | 0.00    | 0.00    | -267.34 | -273.68 | -271.71 |
| XBADJ | TTP68 | -261.47 | -243.30 | -217.73 | -185.54 | -148.48 | -117.59 |
| XBADJ | TTP68 | -126.33 | -133.30 | -136.84 | -136.22 | -131.47 | -122.72 |
| XBADJ | TTP68 | -110.24 | 0.00    | 0.00    | -74.06  | -66.39  | -56.69  |
| XBADJ | TTP68 | -45.27  | -32.48  | -18.70  | -4.35   | 10.13   | 16.14   |
| XBADJ | TTP69 | -28.35  | -71.99  | -113.43 | -151.43 | -184.83 | -212.61 |
| XBADJ | TTP69 | -233.93 | 0.00    | 0.00    | -270.34 | -276.54 | -274.34 |
| XBADJ | TTP69 | -263.80 | -245.25 | -219.25 | -186.58 | -149.01 | -117.59 |
| XBADJ | TTP69 | -125.80 | -132.26 | -135.32 | -134.27 | -129.14 | -120.08 |
| XBADJ | TTP69 | -107.38 | 0.00    | 0.00    | -71.07  | -63.53  | -54.06  |
| XBADJ | TTP69 | -42.94  | -30.53  | -17.18  | -3.31   | 10.66   | 16.14   |
| XBADJ | TTP70 | -29.15  | -73.31  | -115.23 | -153.66 | -187.42 | -215.48 |
| XBADJ | TTP70 | -237.00 | 0.00    | 0.00    | -273.41 | -279.43 | -276.96 |
| XBADJ | TTP70 | -266.07 | -247.10 | -220.62 | -187.43 | -149.31 | -117.34 |
| XBADJ | TTP70 | -125.00 | -130.94 | -133.52 | -132.04 | -126.55 | -117.21 |
| XBADJ | TTP70 | -104.32 | 0.00    | 0.00    | -67.99  | -60.64  | -51.44  |
| XBADJ | TTP70 | -40.68  | -28.68  | -15.81  | -2.46   | 10.96   | 15.89   |
| XBADJ | TTP71 | -29.80  | -74.46  | -116.86 | -155.71 | -189.82 | -218.17 |
| XBADJ | TTP71 | -239.89 | 0.00    | 0.00    | -276.39 | -282.25 | -279.53 |
| XBADJ | TTP71 | -268.32 | -248.96 | -222.03 | -188.36 | -149.72 | -117.22 |
| XBADJ | TTP71 | -124.36 | -129.79 | -131.90 | -130.00 | -124.14 | -114.52 |
| XBADJ | TTP71 | -101.42 | 0.00    | 0.00    | -65.02  | -57.82  | -48.86  |
| XBADJ | TTP71 | -38.43  | -26.82  | -14.40  | -1.54   | 11.37   | 15.77   |
| XBADJ | TTP72 | -30.19  | -75.35  | -118.22 | -157.50 | -191.99 | -220.65 |
| XBADJ | TTP72 | -242.61 | 0.00    | 0.00    | -279.29 | -285.04 | -282.13 |
| XBADJ | TTP72 | -270.64 | -250.93 | -223.60 | -189.47 | -150.35 | -117.34 |
| XBADJ | TTP72 | -123.97 | -128.90 | -130.54 | -128.20 | -121.98 | -112.04 |
| XBADJ | TTP72 | -98.71  | 0.00    | 0.00    | -62.11  | -55.03  | -46.27  |
| XBADJ | TTP72 | -36.10  | -24.84  | -12.83  | -0.42   | 12.00   | 15.89   |
| XBADJ | TTP73 | -30.85  | -76.54  | -119.90 | -159.62 | -194.49 | -223.45 |
| XBADJ | TTP73 | -245.62 | 0.00    | 0.00    | -282.39 | -287.97 | -284.81 |
| XBADJ | TTP73 | -272.99 | -252.87 | -225.08 | -190.44 | -150.78 | -117.22 |
| XBADJ | TTP73 | -123.30 | -127.71 | -128.85 | -126.08 | -119.48 | -109.25 |
| XBADJ | TTP73 | -95.70  | 0.00    | 0.00    | -59.02  | -52.10  | -43.59  |
| XBADJ | TTP73 | -33.76  | -22.90  | -11.35  | 0.55    | 12.43   | 15.77   |
| XBADJ | TTP74 | -31.48  | -77.66  | -121.47 | -161.60 | -196.81 | -226.05 |
| XBADJ | TTP74 | -248.41 | 0.00    | 0.00    | -285.25 | -290.68 | -287.28 |
| XBADJ | TTP74 | -275.15 | -254.67 | -226.44 | -191.33 | -151.17 | -117.10 |
| XBADJ | TTP74 | -122.67 | -126.59 | -127.28 | -124.11 | -117.16 | -106.65 |
| XBADJ | TTP74 | -92.90  | 0.00    | 0.00    | -56.16  | -49.38  | -41.11  |
| XBADJ | TTP74 | -31.59  | -21.11  | -9.99   | 1.44    | 12.82   | 15.65   |
| XBADJ | TTP75 | -32.01  | -78.70  | -122.99 | -163.55 | -199.14 | -228.68 |
| XBADJ | TTP75 | -251.27 | 0.00    | 0.00    | -288.24 | -293.54 | -289.92 |
| XBADJ | TTP75 | -277.48 | -256.62 | -227.96 | -192.37 | -151.70 | -117.10 |
| XBADJ | TTP75 | -122.15 | -125.55 | -125.76 | -122.15 | -114.83 | -104.02 |
| XBADJ | TTP75 | -90.04  | 0.00    | 0.00    | -53.16  | -46.53  | -38.48  |
| XBADJ | TTP75 | -29.26  | -19.16  | -8.47   | 2.48    | 13.35   | 15.65   |



|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP76 | -32.80  | -80.01  | -124.78 | -165.77 | -201.72 | -231.54 |
| XBADJ | TTP76 | -254.33 | 0.00    | 0.00    | -291.32 | -296.44 | -292.54 |
| XBADJ | TTP76 | -279.76 | -258.47 | -229.34 | -193.23 | -152.01 | -116.86 |
| XBADJ | TTP76 | -121.36 | -124.24 | -123.97 | -119.93 | -112.25 | -101.15 |
| XBADJ | TTP76 | -86.98  | 0.00    | 0.00    | -50.08  | -43.63  | -35.86  |
| XBADJ | TTP76 | -26.99  | -17.30  | -7.09   | 3.33    | 13.66   | 15.41   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP77 | -33.45  | -81.17  | -126.42 | -167.83 | -204.13 | -234.24 |
| XBADJ | TTP77 | -257.23 | 0.00    | 0.00    | -294.30 | -299.25 | -295.11 |
| XBADJ | TTP77 | -282.00 | -260.33 | -230.74 | -194.15 | -152.41 | -116.73 |
| XBADJ | TTP77 | -120.70 | -123.08 | -122.34 | -117.88 | -109.83 | -98.45  |
| XBADJ | TTP77 | -84.08  | 0.00    | 0.00    | -47.11  | -40.82  | -33.29  |
| XBADJ | TTP77 | -24.74  | -15.45  | -5.69   | 4.25    | 14.06   | 15.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP78 | -33.83  | -82.04  | -127.76 | -169.60 | -206.29 | -236.70 |
| XBADJ | TTP78 | -259.93 | 0.00    | 0.00    | -297.19 | -302.04 | -297.70 |
| XBADJ | TTP78 | -284.32 | -262.30 | -232.32 | -195.27 | -153.05 | -116.86 |
| XBADJ | TTP78 | -120.32 | -122.20 | -120.99 | -116.10 | -107.68 | -95.99  |
| XBADJ | TTP78 | -81.38  | 0.00    | 0.00    | -44.21  | -38.03  | -30.69  |
| XBADJ | TTP78 | -22.42  | -13.47  | -4.11   | 5.37    | 14.69   | 15.41   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP79 | -34.45  | -83.12  | -129.28 | -171.50 | -208.52 | -239.19 |
| XBADJ | TTP79 | -262.61 | 0.00    | 0.00    | -299.93 | -304.62 | -300.06 |
| XBADJ | TTP79 | -286.38 | -264.00 | -233.60 | -196.10 | -153.40 | -116.73 |
| XBADJ | TTP79 | -119.71 | -121.12 | -119.48 | -114.20 | -105.45 | -93.50  |
| XBADJ | TTP79 | -78.71  | 0.00    | 0.00    | -41.48  | -35.44  | -28.33  |
| XBADJ | TTP79 | -20.36  | -11.77  | -2.83   | 6.21    | 15.05   | 15.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP80 | -35.07  | -84.24  | -130.85 | -173.48 | -210.84 | -241.79 |
| XBADJ | TTP80 | 0.00    | 0.00    | 0.00    | -302.79 | -307.34 | -302.54 |
| XBADJ | TTP80 | -288.55 | -265.80 | -234.96 | -196.99 | -153.79 | -116.61 |
| XBADJ | TTP80 | -119.08 | -120.01 | -117.91 | -112.22 | -103.13 | -90.90  |
| XBADJ | TTP80 | 0.00    | 0.00    | 0.00    | -38.61  | -32.73  | -25.86  |
| XBADJ | TTP80 | -18.20  | -9.98   | -1.46   | 7.10    | 15.44   | 15.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP81 | -35.60  | -85.28  | -132.37 | -175.43 | -213.17 | -244.42 |
| XBADJ | TTP81 | 0.00    | 0.00    | 0.00    | -305.79 | -310.19 | -305.17 |
| XBADJ | TTP81 | -290.88 | -267.75 | -236.48 | -198.03 | -154.32 | -116.61 |
| XBADJ | TTP81 | -118.55 | -118.97 | -116.39 | -110.27 | -100.80 | -88.27  |
| XBADJ | TTP81 | 0.00    | 0.00    | 0.00    | -35.62  | -29.87  | -23.22  |
| XBADJ | TTP81 | -15.87  | -8.03   | 0.06    | 8.14    | 15.97   | 15.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP82 | -36.39  | -86.59  | -134.16 | -177.65 | -215.75 | -247.29 |
| XBADJ | TTP82 | 0.00    | 0.00    | 0.00    | -308.87 | -313.09 | -307.80 |
| XBADJ | TTP82 | -293.15 | -269.60 | -237.86 | -198.89 | -154.64 | -116.37 |
| XBADJ | TTP82 | -117.77 | -117.66 | -114.60 | -108.05 | -98.22  | -85.40  |
| XBADJ | TTP82 | 0.00    | 0.00    | 0.00    | -32.54  | -26.98  | -20.60  |
| XBADJ | TTP82 | -13.59  | -6.17   | 1.43    | 9.00    | 16.29   | 14.92   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP83 | -37.03  | -87.74  | -135.78 | -179.70 | -218.16 | -249.98 |
| XBADJ | TTP83 | 0.00    | 0.00    | 0.00    | -311.84 | -315.90 | -310.37 |
| XBADJ | TTP83 | -295.41 | -271.47 | -239.28 | -199.82 | -155.05 | -116.25 |
| XBADJ | TTP83 | -117.12 | -116.51 | -112.97 | -106.00 | -95.81  | -82.71  |
| XBADJ | TTP83 | 0.00    | 0.00    | 0.00    | -29.57  | -24.16  | -18.03  |
| XBADJ | TTP83 | -11.34  | -4.31   | 2.85    | 9.92    | 16.70   | 14.80   |
|       |       |         |         |         |         |         |         |
| XBADJ | STCK1 | -118.50 | -171.03 | -218.36 | -259.06 | -291.89 | -315.85 |
| XBADJ | STCK1 | -330.21 | -334.54 | -331.02 | -329.46 | -319.11 | -299.07 |
| XBADJ | STCK1 | -269.93 | -232.60 | -188.20 | -138.08 | -84.52  | -39.08  |
| XBADJ | STCK1 | -35.65  | -33.22  | -30.39  | -26.64  | -22.08  | -16.85  |
| XBADJ | STCK1 | -11.10  | -5.02   | -2.57   | -11.94  | -20.96  | -29.33  |
| XBADJ | STCK1 | -36.81  | -43.18  | -48.23  | -51.82  | -53.83  | -62.37  |
|       |       |         |         |         |         |         |         |
| XBADJ | STCK2 | -108.59 | -161.64 | -209.79 | -251.56 | -285.69 | -311.13 |
| XBADJ | STCK2 | -327.13 | -333.18 | -331.43 | -331.63 | -322.96 | -304.49 |
| XBADJ | STCK2 | -276.76 | -240.63 | -197.18 | -147.74 | -94.58  | -49.22  |

|       |       |        |         |         |         |         |         |
|-------|-------|--------|---------|---------|---------|---------|---------|
| XBADJ | STCK2 | -45.57 | -42.61  | -38.97  | -34.14  | -28.28  | -21.56  |
| XBADJ | STCK2 | -14.19 | -6.38   | -2.16   | -9.78   | -17.10  | -23.91  |
| XBADJ | STCK2 | -29.98 | -35.15  | -39.25  | -42.15  | -43.78  | -52.23  |
| YBADJ | IDLE1 | -91.73 | -79.73  | -65.30  | -48.88  | -30.98  | -12.14  |
| YBADJ | IDLE1 | 7.07   | 26.44   | 46.28   | 61.56   | 76.01   | 88.46   |
| YBADJ | IDLE1 | 98.22  | 105.00  | 108.58  | 108.87  | 105.85  | 100.34  |
| YBADJ | IDLE1 | 91.73  | 79.73   | 65.30   | 48.88   | 30.98   | 12.14   |
| YBADJ | IDLE1 | -7.07  | -26.44  | -46.28  | -61.56  | -76.01  | -88.46  |
| YBADJ | IDLE1 | -98.22 | -105.00 | -108.58 | -108.87 | -105.85 | -100.34 |
| YBADJ | IDLE2 | -87.79 | -76.01  | -61.91  | -45.93  | -28.56  | -10.31  |
| YBADJ | IDLE2 | 8.24   | 26.93   | 46.06   | 60.64   | 74.42   | 86.25   |
| YBADJ | IDLE2 | 95.45  | 101.76  | 104.98  | 105.00  | 101.83  | 96.30   |
| YBADJ | IDLE2 | 87.79  | 76.01   | 61.91   | 45.93   | 28.56   | 10.31   |
| YBADJ | IDLE2 | -8.24  | -26.93  | -46.06  | -60.64  | -74.42  | -86.25  |
| YBADJ | IDLE2 | -95.45 | -101.76 | -104.98 | -105.00 | -101.83 | -96.30  |
| YBADJ | IDLE3 | -84.05 | -72.44  | -58.63  | -43.04  | -26.14  | -8.45   |
| YBADJ | IDLE3 | 9.50   | 27.54   | 46.01   | 59.93   | 73.07   | 84.30   |
| YBADJ | IDLE3 | 92.97  | 98.81   | 101.65  | 101.40  | 98.07   | 92.49   |
| YBADJ | IDLE3 | 84.05  | 72.44   | 58.63   | 43.04   | 26.14   | 8.45    |
| YBADJ | IDLE3 | -9.50  | -27.54  | -46.01  | -59.93  | -73.07  | -84.30  |
| YBADJ | IDLE3 | -92.97 | -98.81  | -101.65 | -101.40 | -98.07  | -92.49  |
| YBADJ | IDLE4 | -80.15 | -68.74  | -55.25  | -40.08  | -23.69  | -6.58   |
| YBADJ | IDLE4 | 10.73  | 28.09   | 45.87   | 59.10   | 71.57   | 82.18   |
| YBADJ | IDLE4 | 90.30  | 95.66   | 98.13   | 97.61   | 94.12   | 88.50   |
| YBADJ | IDLE4 | 80.15  | 68.74   | 55.25   | 40.08   | 23.69   | 6.58    |
| YBADJ | IDLE4 | -10.73 | -28.09  | -45.87  | -59.10  | -71.57  | -82.18  |
| YBADJ | IDLE4 | -90.30 | -95.66  | -98.13  | -97.61  | -94.12  | -88.50  |
| YBADJ | IDLE5 | -76.12 | -64.91  | -51.73  | -36.97  | -21.09  | -4.57   |
| YBADJ | IDLE5 | 12.09  | 28.76   | 45.83   | 58.35   | 70.14   | 80.10   |
| YBADJ | IDLE5 | 87.64  | 92.50   | 94.56   | 93.75   | 90.09   | 84.41   |
| YBADJ | IDLE5 | 76.12  | 64.91   | 51.73   | 36.97   | 21.09   | 4.57    |
| YBADJ | IDLE5 | -12.09 | -28.76  | -45.83  | -58.35  | -70.14  | -80.10  |
| YBADJ | IDLE5 | -87.64 | -92.50  | -94.56  | -93.75  | -90.09  | -84.41  |
| YBADJ | IDLE6 | -68.50 | -57.67  | -45.09  | -31.14  | -16.24  | -0.85   |
| YBADJ | IDLE6 | 14.57  | 29.92   | 45.63   | 56.80   | 67.29   | 76.04   |
| YBADJ | IDLE6 | 82.48  | 86.42   | 87.73   | 86.37   | 82.39   | 76.63   |
| YBADJ | IDLE6 | 68.50  | 57.67   | 45.09   | 31.14   | 16.24   | 0.85    |
| YBADJ | IDLE6 | -14.57 | -29.92  | -45.63  | -56.80  | -67.29  | -76.04  |
| YBADJ | IDLE6 | -82.48 | -86.42  | -87.73  | -86.37  | -82.39  | -76.63  |
| YBADJ | IDLE7 | -64.57 | -53.95  | -41.70  | -28.19  | -13.81  | 0.98    |
| YBADJ | IDLE7 | 15.75  | 30.41   | 45.42   | 55.89   | 65.71   | 73.84   |
| YBADJ | IDLE7 | 79.73  | 83.19   | 84.13   | 82.51   | 78.38   | 72.60   |
| YBADJ | IDLE7 | 64.57  | 53.95   | 41.70   | 28.19   | 13.81   | -0.98   |
| YBADJ | IDLE7 | -15.75 | -30.41  | -45.42  | -55.89  | -65.71  | -73.84  |
| YBADJ | IDLE7 | -79.73 | -83.19  | -84.13  | -82.51  | -78.38  | -72.60  |
| YBADJ | IDLE8 | -60.82 | -50.39  | -38.43  | -25.30  | -11.40  | 2.84    |
| YBADJ | IDLE8 | 17.00  | 31.02   | 45.37   | 55.18   | 64.36   | 71.90   |
| YBADJ | IDLE8 | 77.24  | 80.24   | 80.81   | 78.91   | 74.62   | 68.79   |
| YBADJ | IDLE8 | 60.82  | 50.39   | 38.43   | 25.30   | 11.40   | -2.84   |
| YBADJ | IDLE8 | -17.00 | -31.02  | -45.37  | -55.18  | -64.36  | -71.90  |
| YBADJ | IDLE8 | -77.24 | -80.24  | -80.81  | -78.91  | -74.62  | -68.79  |
| YBADJ | IDLE9 | -56.92 | -46.69  | -35.04  | -22.33  | -8.94   | 4.72    |
| YBADJ | IDLE9 | 18.24  | 31.58   | 45.23   | 54.35   | 62.87   | 69.78   |
| YBADJ | IDLE9 | 74.57  | 77.10   | 77.28   | 75.12   | 70.67   | 64.80   |
| YBADJ | IDLE9 | 56.92  | 46.69   | 35.04   | 22.33   | 8.94    | -4.72   |
| YBADJ | IDLE9 | -18.24 | -31.58  | -45.23  | -54.35  | -62.87  | -69.78  |
| YBADJ | IDLE9 | -74.57 | -77.10  | -77.28  | -75.12  | -70.67  | -64.80  |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE10 | -52.90 | -42.86 | -31.52 | -19.23 | -6.34  | 6.73   |
| YBADJ | IDLE10 | 19.60  | 32.25  | 45.19  | 53.60  | 61.43  | 67.70  |
| YBADJ | IDLE10 | 71.91  | 73.94  | 73.72  | 71.26  | 66.63  | 60.71  |
| YBADJ | IDLE10 | 52.90  | 42.86  | 31.52  | 19.23  | 6.34   | -6.73  |
| YBADJ | IDLE10 | -19.60 | -32.25 | -45.19 | -53.60 | -61.43 | -67.70 |
| YBADJ | IDLE10 | -71.91 | -73.94 | -73.72 | -71.26 | -66.63 | -60.71 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE11 | -49.05 | -39.22 | -28.20 | -16.33 | -3.96  | 8.53   |
| YBADJ | IDLE11 | 20.77  | 32.75  | 45.00  | 52.73  | 59.90  | 65.56  |
| YBADJ | IDLE11 | 69.23  | 70.80  | 70.21  | 67.49  | 62.72  | 56.77  |
| YBADJ | IDLE11 | 49.05  | 39.22  | 28.20  | 16.33  | 3.96   | -8.53  |
| YBADJ | IDLE11 | -20.77 | -32.75 | -45.00 | -52.73 | -59.90 | -65.56 |
| YBADJ | IDLE11 | -69.23 | -70.80 | -70.21 | -67.49 | -62.72 | -56.77 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE12 | -45.13 | -35.49 | -24.79 | -13.32 | -1.46  | 10.46  |
| YBADJ | IDLE12 | 22.05  | 33.35  | 44.91  | 51.95  | 58.45  | 63.49  |
| YBADJ | IDLE12 | 66.59  | 67.68  | 66.70  | 63.70  | 58.77  | 52.77  |
| YBADJ | IDLE12 | 45.13  | 35.49  | 24.79  | 13.32  | 1.46   | -10.46 |
| YBADJ | IDLE12 | -22.05 | -33.35 | -44.91 | -51.95 | -58.45 | -63.49 |
| YBADJ | IDLE12 | -66.59 | -67.68 | -66.70 | -63.70 | -58.77 | -52.77 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE13 | -21.99 | -13.51 | -4.62  | 4.41   | 13.30  | 21.80  |
| YBADJ | IDLE13 | 29.63  | 36.93  | 44.39  | 47.34  | 49.90  | 51.25  |
| YBADJ | IDLE13 | 51.04  | 49.28  | 46.02  | 41.37  | 35.45  | 29.19  |
| YBADJ | IDLE13 | 21.99  | 13.51  | 4.62   | -4.41  | -13.30 | -21.80 |
| YBADJ | IDLE13 | -29.63 | -36.93 | -44.39 | -47.34 | -49.90 | -51.25 |
| YBADJ | IDLE13 | -51.04 | -49.28 | -46.02 | -41.37 | -35.45 | -29.19 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE14 | -18.15 | -9.88  | -1.31  | 7.30   | 15.69  | 23.60  |
| YBADJ | IDLE14 | 30.79  | 37.43  | 44.19  | 46.47  | 48.37  | 49.11  |
| YBADJ | IDLE14 | 48.36  | 46.14  | 42.51  | 37.60  | 31.54  | 25.25  |
| YBADJ | IDLE14 | 18.15  | 9.88   | 1.31   | -7.30  | -15.69 | -23.60 |
| YBADJ | IDLE14 | -30.79 | -37.43 | -44.20 | -46.47 | -48.37 | -49.11 |
| YBADJ | IDLE14 | -48.36 | -46.14 | -42.51 | -37.60 | -31.54 | -25.25 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE15 | -14.23 | -6.16  | 2.10   | 10.30  | 18.19  | 25.52  |
| YBADJ | IDLE15 | 32.07  | 38.04  | 44.10  | 45.69  | 46.92  | 47.04  |
| YBADJ | IDLE15 | 45.73  | 43.02  | 39.01  | 33.82  | 27.60  | 21.26  |
| YBADJ | IDLE15 | 14.23  | 6.16   | -2.10  | -10.30 | -18.19 | -25.52 |
| YBADJ | IDLE15 | -32.07 | -38.04 | -44.11 | -45.69 | -46.92 | -47.04 |
| YBADJ | IDLE15 | -45.73 | -43.02 | -39.01 | -33.82 | -27.60 | -21.26 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE16 | -37.61 | -28.33 | -18.20 | -7.51  | 3.40   | 14.21  |
| YBADJ | IDLE16 | 24.59  | 34.60  | 44.83  | 50.54  | 55.76  | 59.59  |
| YBADJ | IDLE16 | 61.61  | 61.76  | 60.04  | 56.49  | 51.22  | 45.12  |
| YBADJ | IDLE16 | 37.61  | 28.33  | 18.20  | 7.51   | -3.40  | -14.21 |
| YBADJ | IDLE16 | -24.59 | -34.60 | -44.83 | -50.54 | -55.76 | -59.59 |
| YBADJ | IDLE16 | -61.61 | -61.76 | -60.04 | -56.49 | -51.22 | -45.12 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE17 | -33.67 | -24.62 | -14.82 | -4.56  | 5.83   | 16.04  |
| YBADJ | IDLE17 | 25.77  | 35.09  | 44.62  | 49.64  | 54.18  | 57.40  |
| YBADJ | IDLE17 | 58.86  | 58.54  | 56.44  | 52.63  | 47.21  | 41.09  |
| YBADJ | IDLE17 | 33.67  | 24.62  | 14.82  | 4.56   | -5.83  | -16.04 |
| YBADJ | IDLE17 | -25.77 | -35.09 | -44.62 | -49.64 | -54.18 | -57.40 |
| YBADJ | IDLE17 | -58.86 | -58.54 | -56.44 | -52.63 | -47.21 | -41.09 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE18 | -29.93 | -21.05 | -11.54 | -1.68  | 8.24   | 17.91  |
| YBADJ | IDLE18 | 27.03  | 35.71  | 44.57  | 48.92  | 52.83  | 55.45  |
| YBADJ | IDLE18 | 56.38  | 55.59  | 53.12  | 49.03  | 43.45  | 37.28  |
| YBADJ | IDLE18 | 29.93  | 21.05  | 11.54  | 1.68   | -8.24  | -17.91 |
| YBADJ | IDLE18 | -27.03 | -35.71 | -44.57 | -48.92 | -52.83 | -55.45 |
| YBADJ | IDLE18 | -56.38 | -55.59 | -53.12 | -49.03 | -43.45 | -37.28 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE19 | -26.01 | -17.34 | -8.15  | 1.30   | 10.70  | 19.78  |
| YBADJ | IDLE19 | 28.26  | 36.26  | 44.43  | 48.09  | 51.33  | 53.33  |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE19 | 53.70  | 52.44  | 49.58  | 45.22  | 39.49  | 33.28  |
| YBADJ | IDLE19 | 26.01  | 17.34  | 8.15   | -1.30  | -10.70 | -19.78 |
| YBADJ | IDLE19 | -28.26 | -36.26 | -44.43 | -48.09 | -51.33 | -53.33 |
| YBADJ | IDLE19 | -53.70 | -52.44 | -49.58 | -45.22 | -39.49 | -33.28 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE20 | 9.14   | 16.04  | 22.45  | 28.18  | 33.05  | 36.92  |
| YBADJ | IDLE20 | 39.66  | 41.58  | 43.50  | 40.96  | 38.21  | 34.60  |
| YBADJ | IDLE20 | 29.94  | 24.38  | 18.07  | 11.21  | 4.01   | -2.58  |
| YBADJ | IDLE20 | -9.14  | -16.04 | -22.45 | -28.18 | -33.05 | -36.92 |
| YBADJ | IDLE20 | -39.66 | -41.58 | -43.50 | -40.96 | -38.21 | -34.60 |
| YBADJ | IDLE20 | -29.94 | -24.38 | -18.07 | -11.21 | -4.01  | 2.58   |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE21 | 12.99  | 19.68  | 25.77  | 31.08  | 35.44  | 38.73  |
| YBADJ | IDLE21 | 40.84  | 42.09  | 43.32  | 40.10  | 36.69  | 32.47  |
| YBADJ | IDLE21 | 27.27  | 21.24  | 14.57  | 7.45   | 0.10   | -6.52  |
| YBADJ | IDLE21 | -12.99 | -19.68 | -25.77 | -31.08 | -35.44 | -38.73 |
| YBADJ | IDLE21 | -40.84 | -42.09 | -43.32 | -40.10 | -36.69 | -32.47 |
| YBADJ | IDLE21 | -27.27 | -21.24 | -14.57 | -7.45  | -0.10  | 6.52   |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE22 | 16.91  | 23.41  | 29.19  | 34.09  | 37.95  | 40.65  |
| YBADJ | IDLE22 | 42.13  | 42.70  | 43.23  | 39.31  | 35.24  | 30.40  |
| YBADJ | IDLE22 | 24.63  | 18.12  | 11.06  | 3.66   | -3.85  | -10.52 |
| YBADJ | IDLE22 | -16.91 | -23.41 | -29.19 | -34.09 | -37.95 | -40.65 |
| YBADJ | IDLE22 | -42.13 | -42.70 | -43.23 | -39.31 | -35.24 | -30.40 |
| YBADJ | IDLE22 | -24.63 | -18.12 | -11.06 | -3.66  | 3.85   | 10.52  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE23 | -6.46  | 1.23   | 8.89   | 16.27  | 23.16  | 29.35  |
| YBADJ | IDLE23 | 34.64  | 39.26  | 43.95  | 44.17  | 44.07  | 42.95  |
| YBADJ | IDLE23 | 40.52  | 36.86  | 32.08  | 26.33  | 19.77  | 13.34  |
| YBADJ | IDLE23 | 6.46   | -1.23  | -8.89  | -16.27 | -23.16 | -29.35 |
| YBADJ | IDLE23 | -34.64 | -39.26 | -43.96 | -44.17 | -44.07 | -42.95 |
| YBADJ | IDLE23 | -40.52 | -36.86 | -32.08 | -26.33 | -19.77 | -13.34 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE24 | -2.53  | 4.94   | 12.27  | 19.22  | 25.58  | 31.17  |
| YBADJ | IDLE24 | 35.81  | 39.75  | 43.73  | 43.25  | 42.49  | 40.74  |
| YBADJ | IDLE24 | 37.76  | 33.63  | 28.48  | 22.46  | 15.76  | 9.31   |
| YBADJ | IDLE24 | 2.53   | -4.94  | -12.27 | -19.22 | -25.58 | -31.17 |
| YBADJ | IDLE24 | -35.81 | -39.75 | -43.73 | -43.25 | -42.49 | -40.74 |
| YBADJ | IDLE24 | -37.76 | -33.63 | -28.48 | -22.46 | -15.76 | -9.31  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE25 | 1.22   | 8.51   | 15.55  | 22.11  | 28.00  | 33.04  |
| YBADJ | IDLE25 | 37.08  | 40.37  | 43.69  | 42.55  | 41.15  | 38.80  |
| YBADJ | IDLE25 | 35.28  | 30.69  | 25.16  | 18.87  | 12.00  | 5.50   |
| YBADJ | IDLE25 | -1.22  | -8.51  | -15.55 | -22.11 | -28.00 | -33.04 |
| YBADJ | IDLE25 | -37.08 | -40.37 | -43.69 | -42.55 | -41.15 | -38.80 |
| YBADJ | IDLE25 | -35.28 | -30.69 | -25.16 | -18.87 | -12.00 | -5.50  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE26 | 5.13   | 12.22  | 18.94  | 25.08  | 30.47  | 34.92  |
| YBADJ | IDLE26 | 38.32  | 40.93  | 43.55  | 41.72  | 39.65  | 36.68  |
| YBADJ | IDLE26 | 32.60  | 27.53  | 21.63  | 15.06  | 8.04   | 1.50   |
| YBADJ | IDLE26 | -5.13  | -12.22 | -18.94 | -25.08 | -30.47 | -34.92 |
| YBADJ | IDLE26 | -38.32 | -40.93 | -43.55 | -41.72 | -39.65 | -36.68 |
| YBADJ | IDLE26 | -32.60 | -27.53 | -21.63 | -15.06 | -8.04  | -1.50  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE27 | 39.99  | 45.33  | 49.30  | 51.78  | 52.67  | 51.97  |
| YBADJ | IDLE27 | 49.69  | 46.28  | 42.72  | 34.73  | 26.71  | 18.19  |
| YBADJ | IDLE27 | 9.12   | -0.23  | -9.57  | -18.62 | -27.10 | -34.04 |
| YBADJ | IDLE27 | -39.99 | -45.33 | -49.30 | -51.78 | -52.67 | -51.97 |
| YBADJ | IDLE27 | -49.69 | -46.28 | -42.72 | -34.73 | -26.71 | -18.19 |
| YBADJ | IDLE27 | -9.12  | 0.23   | 9.57   | 18.62  | 27.10  | 34.04  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE28 | 43.84  | 48.98  | 52.63  | 54.68  | 55.07  | 53.79  |
| YBADJ | IDLE28 | 50.87  | 46.79  | 42.54  | 33.87  | 25.20  | 16.07  |
| YBADJ | IDLE28 | 6.45   | -3.36  | -13.07 | -22.38 | -31.01 | -37.98 |
| YBADJ | IDLE28 | -43.84 | -48.98 | -52.63 | -54.68 | -55.07 | -53.79 |
| YBADJ | IDLE28 | -50.87 | -46.79 | -42.54 | -33.87 | -25.20 | -16.07 |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE28 | -6.45  | 3.36   | 13.07  | 22.38  | 31.01  | 37.98  |
| YBADJ | IDLE29 | 47.76  | 52.70  | 56.05  | 57.68  | 57.57  | 55.71  |
| YBADJ | IDLE29 | 52.15  | 47.39  | 42.45  | 33.08  | 23.74  | 13.99  |
| YBADJ | IDLE29 | 3.81   | -6.48  | -16.58 | -26.17 | -34.97 | -41.98 |
| YBADJ | IDLE29 | -47.76 | -52.70 | -56.05 | -57.68 | -57.57 | -55.71 |
| YBADJ | IDLE29 | -52.15 | -47.39 | -42.45 | -33.08 | -23.74 | -13.99 |
| YBADJ | IDLE29 | -3.81  | 6.48   | 16.58  | 26.17  | 34.97  | 41.98  |
| YBADJ | IDLE30 | 24.38  | 30.52  | 35.73  | 39.86  | 42.78  | 44.40  |
| YBADJ | IDLE30 | 44.67  | 43.96  | 43.17  | 37.94  | 32.58  | 26.55  |
| YBADJ | IDLE30 | 19.71  | 12.27  | 4.45   | -3.50  | -11.34 | -18.11 |
| YBADJ | IDLE30 | -24.38 | -30.52 | -35.73 | -39.86 | -42.78 | -44.40 |
| YBADJ | IDLE30 | -44.67 | -43.96 | -43.17 | -37.94 | -32.58 | -26.55 |
| YBADJ | IDLE30 | -19.71 | -12.27 | -4.45  | 3.50   | 11.34  | 18.11  |
| YBADJ | IDLE31 | 28.32  | 34.24  | 39.12  | 42.82  | 45.21  | 46.23  |
| YBADJ | IDLE31 | 45.84  | 44.44  | 42.95  | 37.02  | 30.99  | 24.34  |
| YBADJ | IDLE31 | 16.94  | 9.03   | 0.84   | -7.37  | -15.35 | -22.15 |
| YBADJ | IDLE31 | -28.32 | -34.24 | -39.12 | -42.82 | -45.21 | -46.23 |
| YBADJ | IDLE31 | -45.84 | -44.44 | -42.95 | -37.02 | -30.99 | -24.34 |
| YBADJ | IDLE31 | -16.94 | -9.03  | -0.84  | 7.37   | 15.35  | 22.15  |
| YBADJ | IDLE32 | 32.06  | 37.81  | 42.40  | 45.71  | 47.63  | 48.10  |
| YBADJ | IDLE32 | 47.11  | 45.06  | 42.91  | 36.32  | 29.65  | 22.40  |
| YBADJ | IDLE32 | 14.46  | 6.09   | -2.47  | -10.96 | -19.11 | -25.96 |
| YBADJ | IDLE32 | -32.06 | -37.81 | -42.40 | -45.71 | -47.63 | -48.10 |
| YBADJ | IDLE32 | -47.11 | -45.06 | -42.91 | -36.32 | -29.65 | -22.40 |
| YBADJ | IDLE32 | -14.46 | -6.09  | 2.47   | 10.96  | 19.11  | 25.96  |
| YBADJ | IDLE33 | 35.97  | 41.51  | 45.79  | 48.68  | 50.08  | 49.97  |
| YBADJ | IDLE33 | 48.34  | 45.62  | 42.77  | 35.49  | 28.16  | 20.28  |
| YBADJ | IDLE33 | 11.79  | 2.94   | -6.00  | -14.76 | -23.07 | -29.95 |
| YBADJ | IDLE33 | -35.97 | -41.51 | -45.79 | -48.68 | -50.08 | -49.97 |
| YBADJ | IDLE33 | -48.34 | -45.62 | -42.77 | -35.49 | -28.16 | -20.28 |
| YBADJ | IDLE33 | -11.79 | -2.94  | 6.00   | 14.76  | 23.07  | 29.95  |
| YBADJ | IDLE34 | 71.13  | 74.89  | 76.37  | 75.54  | 72.41  | 67.07  |
| YBADJ | IDLE34 | 59.71  | 50.90  | 41.81  | 28.31  | 14.99  | 1.52   |
| YBADJ | IDLE34 | -12.00 | -25.16 | -37.54 | -48.79 | -58.56 | -65.82 |
| YBADJ | IDLE34 | -71.13 | -74.89 | -76.37 | -75.54 | -72.41 | -67.07 |
| YBADJ | IDLE34 | -59.71 | -50.90 | -41.81 | -28.31 | -14.99 | -1.52  |
| YBADJ | IDLE34 | 12.00  | 25.16  | 37.54  | 48.79  | 58.56  | 65.82  |
| YBADJ | IDLE35 | 74.97  | 78.52  | 79.69  | 78.43  | 74.79  | 68.88  |
| YBADJ | IDLE35 | 60.87  | 51.40  | 41.62  | 27.44  | 13.46  | -0.62  |
| YBADJ | IDLE35 | -14.68 | -28.30 | -41.05 | -52.56 | -62.47 | -69.76 |
| YBADJ | IDLE35 | -74.97 | -78.52 | -79.69 | -78.43 | -74.79 | -68.88 |
| YBADJ | IDLE35 | -60.87 | -51.40 | -41.62 | -27.44 | -13.46 | 0.62   |
| YBADJ | IDLE35 | 14.68  | 28.30  | 41.05  | 52.56  | 62.47  | 69.76  |
| YBADJ | IDLE36 | 78.89  | 82.24  | 83.10  | 81.43  | 77.29  | 70.80  |
| YBADJ | IDLE36 | 62.15  | 52.00  | 41.53  | 26.66  | 12.01  | -2.69  |
| YBADJ | IDLE36 | -17.31 | -31.41 | -44.55 | -56.34 | -66.42 | -73.75 |
| YBADJ | IDLE36 | -78.89 | -82.24 | -83.10 | -81.43 | -77.29 | -70.80 |
| YBADJ | IDLE36 | -62.15 | -52.00 | -41.53 | -26.66 | -12.01 | 2.69   |
| YBADJ | IDLE36 | 17.31  | 31.41  | 44.55  | 56.34  | 66.42  | 73.75  |
| YBADJ | IDLE37 | 55.51  | 60.07  | 62.80  | 63.62  | 62.50  | 59.49  |
| YBADJ | IDLE37 | 54.67  | 48.57  | 42.25  | 31.51  | 20.85  | 9.86   |
| YBADJ | IDLE37 | -1.43  | -12.67 | -23.53 | -33.67 | -42.79 | -49.89 |
| YBADJ | IDLE37 | -55.51 | -60.07 | -62.80 | -63.62 | -62.50 | -59.49 |
| YBADJ | IDLE37 | -54.67 | -48.57 | -42.25 | -31.51 | -20.85 | -9.86  |
| YBADJ | IDLE37 | 1.43   | 12.67  | 23.53  | 33.67  | 42.79  | 49.89  |
| YBADJ | IDLE38 | 59.45  | 63.78  | 66.18  | 66.56  | 64.92  | 61.32  |

|       |        |         |         |         |         |        |         |
|-------|--------|---------|---------|---------|---------|--------|---------|
| YBADJ | IDLE38 | 55.84   | 49.05   | 42.03   | 30.60   | 19.26  | 7.66    |
| YBADJ | IDLE38 | -4.18   | -15.90  | -27.13  | -37.54  | -46.80 | -53.92  |
| YBADJ | IDLE38 | -59.45  | -63.78  | -66.18  | -66.56  | -64.92 | -61.32  |
| YBADJ | IDLE38 | -55.84  | -49.05  | -42.03  | -30.60  | -19.26 | -7.66   |
| YBADJ | IDLE38 | 4.18    | 15.90   | 27.13   | 37.54   | 46.80  | 53.92   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE39 | 63.19   | 67.35   | 69.46   | 69.45   | 67.34  | 63.19   |
| YBADJ | IDLE39 | 57.11   | 49.67   | 41.99   | 29.90   | 17.92  | 5.72    |
| YBADJ | IDLE39 | -6.66   | -18.84  | -30.45  | -41.13  | -50.56 | -57.73  |
| YBADJ | IDLE39 | -63.19  | -67.35  | -69.46  | -69.45  | -67.34 | -63.19  |
| YBADJ | IDLE39 | -57.11  | -49.67  | -41.99  | -29.90  | -17.92 | -5.72   |
| YBADJ | IDLE39 | 6.66    | 18.84   | 30.45   | 41.13   | 50.56  | 57.73   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE40 | 67.11   | 71.06   | 72.85   | 72.43   | 69.81  | 65.06   |
| YBADJ | IDLE40 | 58.34   | 50.23   | 41.85   | 29.06   | 16.42  | 3.60    |
| YBADJ | IDLE40 | -9.34   | -22.00  | -33.98  | -44.94  | -54.52 | -61.73  |
| YBADJ | IDLE40 | -67.11  | -71.06  | -72.85  | -72.43  | -69.81 | -65.06  |
| YBADJ | IDLE40 | -58.34  | -50.23  | -41.85  | -29.06  | -16.42 | -3.60   |
| YBADJ | IDLE40 | 9.34    | 22.00   | 33.98   | 44.94   | 54.52  | 61.73   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE41 | 102.14  | 104.34  | 103.37  | 99.26   | 92.13  | 82.21   |
| YBADJ | IDLE41 | 69.78   | 55.62   | 41.02   | 22.04   | 3.43   | -14.98  |
| YBADJ | IDLE41 | -32.94  | -49.89  | -65.33  | -78.79  | -89.85 | -97.45  |
| YBADJ | IDLE41 | -102.14 | -104.34 | -103.37 | -99.26  | -92.13 | -82.21  |
| YBADJ | IDLE41 | -69.78  | -55.62  | -41.02  | -22.04  | -3.43  | 14.98   |
| YBADJ | IDLE41 | 32.94   | 49.89   | 65.33   | 78.79   | 89.85  | 97.45   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE42 | 106.00  | 107.99  | 106.70  | 102.17  | 94.53  | 84.02   |
| YBADJ | IDLE42 | 70.96   | 56.13   | 40.84   | 21.18   | 1.91   | -17.11  |
| YBADJ | IDLE42 | -35.62  | -53.04  | -68.84  | -82.56  | -93.77 | -101.40 |
| YBADJ | IDLE42 | -106.00 | -107.99 | -106.70 | -102.17 | -94.53 | -84.02  |
| YBADJ | IDLE42 | -70.96  | -56.13  | -40.84  | -21.18  | -1.91  | 17.11   |
| YBADJ | IDLE42 | 35.62   | 53.04   | 68.84   | 82.56   | 93.77  | 101.40  |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE43 | 86.54   | 89.53   | 89.81   | 87.35   | 82.24  | 74.64   |
| YBADJ | IDLE43 | 64.76   | 53.30   | 41.47   | 25.25   | 9.30   | -6.63   |
| YBADJ | IDLE43 | -22.36  | -37.41  | -51.32  | -63.67  | -74.09 | -81.53  |
| YBADJ | IDLE43 | -86.54  | -89.53  | -89.81  | -87.35  | -82.24 | -74.64  |
| YBADJ | IDLE43 | -64.76  | -53.30  | -41.47  | -25.25  | -9.30  | 6.63    |
| YBADJ | IDLE43 | 22.36   | 37.41   | 51.32   | 63.67   | 74.09  | 81.53   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE44 | 90.47   | 93.24   | 93.19   | 90.30   | 84.67  | 76.46   |
| YBADJ | IDLE44 | 65.93   | 53.78   | 41.25   | 24.33   | 7.71   | -8.84   |
| YBADJ | IDLE44 | -25.12  | -40.64  | -54.92  | -67.53  | -78.10 | -85.56  |
| YBADJ | IDLE44 | -90.47  | -93.24  | -93.19  | -90.30  | -84.66 | -76.46  |
| YBADJ | IDLE44 | -65.93  | -53.78  | -41.25  | -24.33  | -7.71  | 8.84    |
| YBADJ | IDLE44 | 25.12   | 40.64   | 54.92   | 67.53   | 78.10  | 85.56   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE45 | 94.21   | 96.81   | 96.47   | 93.19   | 87.08  | 78.33   |
| YBADJ | IDLE45 | 67.20   | 54.40   | 41.21   | 23.63   | 6.37   | -10.78  |
| YBADJ | IDLE45 | -27.60  | -43.58  | -58.24  | -71.13  | -81.85 | -89.37  |
| YBADJ | IDLE45 | -94.21  | -96.81  | -96.47  | -93.19  | -87.08 | -78.33  |
| YBADJ | IDLE45 | -67.20  | -54.40  | -41.21  | -23.63  | -6.37  | 10.78   |
| YBADJ | IDLE45 | 27.60   | 43.58   | 58.24   | 71.13   | 81.86  | 89.37   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE46 | 98.13   | 100.52  | 99.86   | 96.16   | 89.55  | 80.21   |
| YBADJ | IDLE46 | 68.43   | 54.96   | 41.07   | 22.80   | 4.87   | -12.90  |
| YBADJ | IDLE46 | -30.28  | -46.74  | -61.77  | -74.93  | -85.82 | -93.37  |
| YBADJ | IDLE46 | -98.13  | -100.52 | -99.86  | -96.16  | -89.55 | -80.21  |
| YBADJ | IDLE46 | -68.43  | -54.96  | -41.07  | -22.80  | -4.87  | 12.90   |
| YBADJ | IDLE46 | 30.28   | 46.74   | 61.77   | 74.93   | 85.82  | 93.37   |
|       |        |         |         |         |         |        |         |
| YBADJ | TRU1   | -92.29  | -80.75  | -66.75  | -50.72  | -33.16 | -14.58  |
| YBADJ | TRU1   | 4.44    | 23.70   | 43.51   | 58.84   | 73.43  | 86.10   |
| YBADJ | TRU1   | 96.15   | 103.28  | 107.27  | 108.00  | 105.45 | 100.42  |
| YBADJ | TRU1   | 92.29   | 80.75   | 66.75   | 50.72   | 33.16  | 14.58   |

|       |       |        |         |         |         |         |         |
|-------|-------|--------|---------|---------|---------|---------|---------|
| YBADJ | TRU1  | -4.44  | -23.70  | -43.51  | -58.84  | -73.43  | -86.10  |
| YBADJ | TRU1  | -96.15 | -103.28 | -107.27 | -108.00 | -105.45 | -100.42 |
| YBADJ | TRU2  | -88.37 | -77.00  | -63.28  | -47.65  | -30.57  | -12.56  |
| YBADJ | TRU2  | 5.84   | 24.43   | 43.55   | 58.19   | 72.11   | 84.14   |
| YBADJ | TRU2  | 93.62  | 100.25  | 103.84  | 104.27  | 101.54  | 96.44   |
| YBADJ | TRU2  | 88.37  | 77.00   | 63.28   | 47.65   | 30.57   | 12.56   |
| YBADJ | TRU2  | -5.84  | -24.43  | -43.55  | -58.19  | -72.11  | -84.14  |
| YBADJ | TRU2  | -93.62 | -100.25 | -103.84 | -104.27 | -101.54 | -96.44  |
| YBADJ | TRU3  | -84.54 | -73.36  | -59.96  | -44.73  | -28.15  | -10.71  |
| YBADJ | TRU3  | 7.06   | 24.99   | 43.43   | 57.40   | 70.66   | 82.09   |
| YBADJ | TRU3  | 91.02  | 97.18   | 100.40  | 100.56  | 97.67   | 92.53   |
| YBADJ | TRU3  | 84.54  | 73.36   | 59.96   | 44.73   | 28.15   | 10.71   |
| YBADJ | TRU3  | -7.06  | -24.99  | -43.43  | -57.40  | -70.66  | -82.09  |
| YBADJ | TRU3  | -91.02 | -97.18  | -100.40 | -100.56 | -97.67  | -92.53  |
| YBADJ | TRU4  | -80.75 | -69.76  | -56.66  | -41.83  | -25.73  | -8.85   |
| YBADJ | TRU4  | 8.30   | 25.58   | 43.35   | 56.65   | 69.26   | 80.09   |
| YBADJ | TRU4  | 88.47  | 94.17   | 97.01   | 96.90   | 93.85   | 88.67   |
| YBADJ | TRU4  | 80.75  | 69.76   | 56.66   | 41.83   | 25.73   | 8.85    |
| YBADJ | TRU4  | -8.30  | -25.58  | -43.35  | -56.65  | -69.26  | -80.09  |
| YBADJ | TRU4  | -88.47 | -94.17  | -97.01  | -96.90  | -93.85  | -88.67  |
| YBADJ | TRU5  | -76.85 | -66.06  | -53.27  | -38.85  | -23.26  | -6.96   |
| YBADJ | TRU5  | 9.55   | 26.15   | 43.23   | 55.84   | 67.79   | 77.99   |
| YBADJ | TRU5  | 85.82  | 91.05   | 93.51   | 93.12   | 89.91   | 84.69   |
| YBADJ | TRU5  | 76.85  | 66.06   | 53.27   | 38.85   | 23.26   | 6.96    |
| YBADJ | TRU5  | -9.55  | -26.15  | -43.23  | -55.84  | -67.79  | -77.99  |
| YBADJ | TRU5  | -85.82 | -91.05  | -93.51  | -93.12  | -89.91  | -84.69  |
| YBADJ | TRU6  | -69.08 | -58.70  | -46.54  | -32.96  | -18.38  | -3.24   |
| YBADJ | TRU6  | 12.00  | 27.25   | 42.94   | 54.17   | 64.80   | 73.77   |
| YBADJ | TRU6  | 80.50  | 84.78   | 86.48   | 85.56   | 82.04   | 76.75   |
| YBADJ | TRU6  | 69.08  | 58.70   | 46.54   | 32.96   | 18.38   | 3.24    |
| YBADJ | TRU6  | -12.00 | -27.25  | -42.94  | -54.17  | -64.80  | -73.77  |
| YBADJ | TRU6  | -80.50 | -84.78  | -86.48  | -85.56  | -82.04  | -76.75  |
| YBADJ | TRU7  | -65.16 | -54.95  | -43.07  | -29.88  | -15.79  | -1.22   |
| YBADJ | TRU7  | 13.40  | 27.98   | 42.98   | 53.52   | 63.48   | 71.82   |
| YBADJ | TRU7  | 77.97  | 81.76   | 83.06   | 81.84   | 78.13   | 72.77   |
| YBADJ | TRU7  | 65.16  | 54.95   | 43.07   | 29.88   | 15.79   | 1.22    |
| YBADJ | TRU7  | -13.40 | -27.98  | -42.98  | -53.52  | -63.48  | -71.82  |
| YBADJ | TRU7  | -77.97 | -81.76  | -83.06  | -81.84  | -78.13  | -72.77  |
| YBADJ | TRU8  | -61.33 | -51.32  | -39.74  | -26.97  | -13.37  | 0.64    |
| YBADJ | TRU8  | 14.62  | 28.54   | 42.86   | 52.72   | 62.03   | 69.76   |
| YBADJ | TRU8  | 75.37  | 78.68   | 79.61   | 78.12   | 74.26   | 68.86   |
| YBADJ | TRU8  | 61.33  | 51.32   | 39.74   | 26.97   | 13.37   | -0.64   |
| YBADJ | TRU8  | -14.62 | -28.54  | -42.86  | -52.72  | -62.03  | -69.76  |
| YBADJ | TRU8  | -75.37 | -78.68  | -79.61  | -78.12  | -74.26  | -68.86  |
| YBADJ | TRU9  | -57.54 | -47.72  | -36.44  | -24.06  | -10.95  | 2.50    |
| YBADJ | TRU9  | 15.86  | 29.13   | 42.78   | 51.98   | 60.63   | 67.76   |
| YBADJ | TRU9  | 72.82  | 75.68   | 76.23   | 74.47   | 70.44   | 65.00   |
| YBADJ | TRU9  | 57.54  | 47.72   | 36.44   | 24.06   | 10.95   | -2.50   |
| YBADJ | TRU9  | -15.86 | -29.13  | -42.78  | -51.98  | -60.63  | -67.76  |
| YBADJ | TRU9  | -72.82 | -75.68  | -76.23  | -74.47  | -70.44  | -65.00  |
| YBADJ | TRU10 | -53.64 | -44.02  | -33.05  | -21.09  | -8.48   | 4.38    |
| YBADJ | TRU10 | 17.11  | 29.70   | 42.66   | 51.17   | 59.16   | 65.66   |
| YBADJ | TRU10 | 70.17  | 72.55   | 72.72   | 70.68   | 66.50   | 61.02   |
| YBADJ | TRU10 | 53.64  | 44.02   | 33.05   | 21.09   | 8.48    | -4.38   |
| YBADJ | TRU10 | -17.11 | -29.70  | -42.66  | -51.17  | -59.16  | -65.66  |
| YBADJ | TRU10 | -70.17 | -72.55  | -72.72  | -70.68  | -66.50  | -61.02  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU11 | -49.69 | -40.28 | -29.65 | -18.12 | -6.04  | 6.23   |
| YBADJ | TRU11 | 18.30  | 30.20  | 42.45  | 50.26  | 57.58  | 63.46  |
| YBADJ | TRU11 | 67.41  | 69.31  | 69.11  | 66.81  | 62.48  | 56.97  |
| YBADJ | TRU11 | 49.69  | 40.28  | 29.65  | 18.12  | 6.04   | -6.23  |
| YBADJ | TRU11 | -18.30 | -30.20 | -42.45 | -50.26 | -57.58 | -63.46 |
| YBADJ | TRU11 | -67.41 | -69.31 | -69.11 | -66.81 | -62.48 | -56.97 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU12 | -45.74 | -36.52 | -26.19 | -15.07 | -3.49  | 8.20   |
| YBADJ | TRU12 | 19.64  | 30.86  | 42.41  | 49.52  | 56.16  | 61.41  |
| YBADJ | TRU12 | 64.79  | 66.21  | 65.61  | 63.02  | 58.51  | 52.95  |
| YBADJ | TRU12 | 45.74  | 36.52  | 26.19  | 15.07  | 3.49   | -8.20  |
| YBADJ | TRU12 | -19.64 | -30.86 | -42.41 | -49.52 | -56.16 | -61.41 |
| YBADJ | TRU12 | -64.79 | -66.21 | -65.61 | -63.02 | -58.51 | -52.95 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU13 | -38.19 | -29.38 | -19.69 | -9.39  | 1.19   | 11.74  |
| YBADJ | TRU13 | 21.93  | 31.83  | 42.03  | 47.80  | 53.16  | 57.22  |
| YBADJ | TRU13 | 59.53  | 60.04  | 58.72  | 55.62  | 50.83  | 45.22  |
| YBADJ | TRU13 | 38.19  | 29.38  | 19.69  | 9.39   | -1.19  | -11.74 |
| YBADJ | TRU13 | -21.93 | -31.83 | -42.03 | -47.80 | -53.16 | -57.22 |
| YBADJ | TRU13 | -59.53 | -60.04 | -58.72 | -55.62 | -50.83 | -45.22 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU14 | -34.26 | -25.63 | -16.22 | -6.32  | 3.78   | 13.76  |
| YBADJ | TRU14 | 23.32  | 32.56  | 42.07  | 47.15  | 51.84  | 55.26  |
| YBADJ | TRU14 | 57.01  | 57.02  | 55.30  | 51.90  | 46.92  | 41.24  |
| YBADJ | TRU14 | 34.26  | 25.63  | 16.22  | 6.32   | -3.78  | -13.76 |
| YBADJ | TRU14 | -23.32 | -32.56 | -42.07 | -47.15 | -51.84 | -55.26 |
| YBADJ | TRU14 | -57.01 | -57.02 | -55.30 | -51.90 | -46.92 | -41.24 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU15 | -30.44 | -22.01 | -12.90 | -3.41  | 6.19   | 15.61  |
| YBADJ | TRU15 | 24.55  | 33.12  | 41.94  | 46.35  | 50.39  | 53.21  |
| YBADJ | TRU15 | 54.41  | 53.95  | 51.86  | 48.19  | 43.06  | 37.34  |
| YBADJ | TRU15 | 30.44  | 22.01  | 12.90  | 3.41   | -6.20  | -15.61 |
| YBADJ | TRU15 | -24.55 | -33.12 | -41.95 | -46.35 | -50.39 | -53.21 |
| YBADJ | TRU15 | -54.41 | -53.95 | -51.86 | -48.19 | -43.06 | -37.34 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU16 | -26.65 | -18.40 | -9.59  | -0.49  | 8.62   | 17.48  |
| YBADJ | TRU16 | 25.80  | 33.72  | 41.88  | 45.62  | 49.01  | 51.22  |
| YBADJ | TRU16 | 51.87  | 50.95  | 48.48  | 44.54  | 39.24  | 33.48  |
| YBADJ | TRU16 | 26.65  | 18.40  | 9.59   | 0.49   | -8.62  | -17.48 |
| YBADJ | TRU16 | -25.80 | -33.72 | -41.88 | -45.62 | -49.01 | -51.22 |
| YBADJ | TRU16 | -51.87 | -50.95 | -48.48 | -44.54 | -39.24 | -33.48 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU17 | -22.75 | -14.70 | -6.20  | 2.49   | 11.10  | 19.37  |
| YBADJ | TRU17 | 27.05  | 34.29  | 41.76  | 44.80  | 47.53  | 49.12  |
| YBADJ | TRU17 | 49.22  | 47.82  | 44.97  | 40.75  | 35.29  | 29.49  |
| YBADJ | TRU17 | 22.75  | 14.70  | 6.20   | -2.49  | -11.10 | -19.37 |
| YBADJ | TRU17 | -27.05 | -34.29 | -41.76 | -44.80 | -47.53 | -49.12 |
| YBADJ | TRU17 | -49.22 | -47.82 | -44.97 | -40.75 | -35.29 | -29.49 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU18 | -18.80 | -10.97 | -2.81  | 5.45   | 13.53  | 21.21  |
| YBADJ | TRU18 | 28.24  | 34.79  | 41.54  | 43.90  | 45.95  | 46.92  |
| YBADJ | TRU18 | 46.46  | 44.59  | 41.36  | 36.88  | 31.28  | 25.45  |
| YBADJ | TRU18 | 18.80  | 10.97  | 2.81   | -5.45  | -13.53 | -21.21 |
| YBADJ | TRU18 | -28.24 | -34.79 | -41.55 | -43.90 | -45.95 | -46.92 |
| YBADJ | TRU18 | -46.46 | -44.59 | -41.36 | -36.88 | -31.28 | -25.45 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU19 | -14.85 | -7.21  | 0.66   | 8.50   | 16.08  | 23.18  |
| YBADJ | TRU19 | 29.57  | 35.45  | 41.50  | 43.16  | 44.54  | 44.87  |
| YBADJ | TRU19 | 43.84  | 41.48  | 37.86  | 33.09  | 27.31  | 21.43  |
| YBADJ | TRU19 | 14.85  | 7.21   | -0.66  | -8.50  | -16.08 | -23.18 |
| YBADJ | TRU19 | -29.57 | -35.45 | -41.51 | -43.16 | -44.54 | -44.87 |
| YBADJ | TRU19 | -43.84 | -41.48 | -37.86 | -33.09 | -27.31 | -21.43 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU20 | -7.17  | 0.07   | 7.30   | 14.32  | 20.90  | 26.85  |
| YBADJ | TRU20 | 31.98  | 36.51  | 41.20  | 41.50  | 41.57  | 40.69  |
| YBADJ | TRU20 | 38.57  | 35.28  | 30.91  | 25.61  | 19.53  | 13.58  |



|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU20 | 7.17   | -0.07  | -7.30  | -14.32 | -20.90 | -26.85 |
| YBADJ | TRU20 | -31.98 | -36.51 | -41.21 | -41.50 | -41.57 | -40.69 |
| YBADJ | TRU20 | -38.57 | -35.28 | -30.91 | -25.61 | -19.53 | -13.58 |
| YBADJ | TRU21 | -3.25  | 3.82   | 10.77  | 17.39  | 23.49  | 28.87  |
| YBADJ | TRU21 | 33.38  | 37.24  | 41.24  | 40.85  | 40.25  | 38.73  |
| YBADJ | TRU21 | 36.04  | 32.25  | 27.49  | 21.88  | 15.62  | 9.60   |
| YBADJ | TRU21 | 3.25   | -3.82  | -10.77 | -17.39 | -23.49 | -28.87 |
| YBADJ | TRU21 | -33.38 | -37.24 | -41.24 | -40.85 | -40.25 | -38.73 |
| YBADJ | TRU21 | -36.04 | -32.25 | -27.49 | -21.88 | -15.62 | -9.60  |
| YBADJ | TRU22 | 0.57   | 7.44   | 14.09  | 20.31  | 25.90  | 30.72  |
| YBADJ | TRU22 | 34.60  | 37.80  | 41.12  | 40.05  | 38.80  | 36.68  |
| YBADJ | TRU22 | 33.44  | 29.19  | 24.05  | 18.18  | 11.76  | 5.70   |
| YBADJ | TRU22 | -0.57  | -7.44  | -14.09 | -20.31 | -25.90 | -30.72 |
| YBADJ | TRU22 | -34.60 | -37.80 | -41.12 | -40.05 | -38.80 | -36.68 |
| YBADJ | TRU22 | -33.44 | -29.19 | -24.05 | -18.18 | -11.76 | -5.70  |
| YBADJ | TRU23 | 4.37   | 11.05  | 17.40  | 23.22  | 28.33  | 32.58  |
| YBADJ | TRU23 | 35.84  | 38.40  | 41.04  | 39.30  | 37.40  | 34.67  |
| YBADJ | TRU23 | 30.89  | 26.17  | 20.66  | 14.51  | 7.93   | 1.83   |
| YBADJ | TRU23 | -4.37  | -11.05 | -17.40 | -23.22 | -28.33 | -32.58 |
| YBADJ | TRU23 | -35.84 | -38.40 | -41.04 | -39.30 | -37.40 | -34.67 |
| YBADJ | TRU23 | -30.89 | -26.17 | -20.66 | -14.51 | -7.93  | -1.83  |
| YBADJ | TRU24 | 8.27   | 14.75  | 20.79  | 26.19  | 30.80  | 34.47  |
| YBADJ | TRU24 | 37.09  | 38.97  | 40.92  | 38.49  | 35.93  | 32.58  |
| YBADJ | TRU24 | 28.24  | 23.05  | 17.15  | 10.73  | 3.99   | -2.15  |
| YBADJ | TRU24 | -8.27  | -14.75 | -20.79 | -26.19 | -30.80 | -34.47 |
| YBADJ | TRU24 | -37.09 | -38.97 | -40.92 | -38.49 | -35.93 | -32.58 |
| YBADJ | TRU24 | -28.24 | -23.05 | -17.15 | -10.73 | -3.99  | 2.15   |
| YBADJ | TRU25 | 12.21  | 18.48  | 24.18  | 29.15  | 33.23  | 36.31  |
| YBADJ | TRU25 | 38.28  | 39.46  | 40.71  | 37.58  | 34.35  | 30.38  |
| YBADJ | TRU25 | 25.48  | 19.82  | 13.55  | 6.86   | -0.03  | -6.19  |
| YBADJ | TRU25 | -12.21 | -18.48 | -24.18 | -29.15 | -33.23 | -36.31 |
| YBADJ | TRU25 | -38.28 | -39.46 | -40.71 | -37.58 | -34.35 | -30.38 |
| YBADJ | TRU25 | -25.48 | -19.82 | -13.55 | -6.86  | 0.03   | 6.19   |
| YBADJ | TRU26 | 16.16  | 22.24  | 27.64  | 32.20  | 35.79  | 38.28  |
| YBADJ | TRU26 | 39.61  | 40.12  | 40.67  | 36.85  | 32.94  | 28.33  |
| YBADJ | TRU26 | 22.87  | 16.71  | 10.05  | 3.07   | -3.99  | -10.21 |
| YBADJ | TRU26 | -16.16 | -22.24 | -27.64 | -32.20 | -35.79 | -38.28 |
| YBADJ | TRU26 | -39.61 | -40.12 | -40.67 | -36.85 | -32.94 | -28.33 |
| YBADJ | TRU26 | -22.87 | -16.71 | -10.04 | -3.07  | 3.99   | 10.21  |
| YBADJ | TRU27 | 23.89  | 29.56  | 34.33  | 38.06  | 40.63  | 41.97  |
| YBADJ | TRU27 | 42.03  | 41.20  | 40.37  | 35.18  | 29.95  | 24.12  |
| YBADJ | TRU27 | 17.56  | 10.47  | 3.05   | -4.45  | -11.82 | -18.11 |
| YBADJ | TRU27 | -23.89 | -29.56 | -34.33 | -38.06 | -40.63 | -41.97 |
| YBADJ | TRU27 | -42.03 | -41.20 | -40.37 | -35.18 | -29.95 | -24.12 |
| YBADJ | TRU27 | -17.56 | -10.47 | -3.05  | 4.45   | 11.82  | 18.11  |
| YBADJ | TRU28 | 27.82  | 33.32  | 37.80  | 41.14  | 43.22  | 44.00  |
| YBADJ | TRU28 | 43.43  | 41.93  | 40.41  | 34.53  | 28.63  | 22.17  |
| YBADJ | TRU28 | 15.03  | 7.44   | -0.37  | -8.18  | -15.74 | -22.09 |
| YBADJ | TRU28 | -27.82 | -33.32 | -37.80 | -41.14 | -43.22 | -44.00 |
| YBADJ | TRU28 | -43.43 | -41.93 | -40.41 | -34.53 | -28.63 | -22.17 |
| YBADJ | TRU28 | -15.03 | -7.44  | 0.37   | 8.18   | 15.74  | 22.09  |
| YBADJ | TRU29 | 31.64  | 36.94  | 41.12  | 44.05  | 45.64  | 45.84  |
| YBADJ | TRU29 | 44.65  | 42.49  | 40.29  | 33.73  | 27.18  | 20.11  |
| YBADJ | TRU29 | 12.44  | 4.38   | -3.81  | -11.88 | -19.60 | -25.99 |
| YBADJ | TRU29 | -31.64 | -36.94 | -41.12 | -44.05 | -45.64 | -45.84 |
| YBADJ | TRU29 | -44.65 | -42.49 | -40.29 | -33.73 | -27.18 | -20.11 |
| YBADJ | TRU29 | -12.44 | -4.38  | 3.81   | 11.88  | 19.60  | 25.99  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU30 | 35.43  | 40.54  | 44.42  | 46.95  | 48.06  | 47.70  |
| YBADJ | TRU30 | 45.90  | 43.08  | 40.21  | 32.98  | 25.79  | 18.12  |
| YBADJ | TRU30 | 9.89   | 1.37   | -7.19  | -15.54 | -23.41 | -29.85 |
| YBADJ | TRU30 | -35.43 | -40.54 | -44.42 | -46.95 | -48.06 | -47.70 |
| YBADJ | TRU30 | -45.90 | -43.08 | -40.21 | -32.98 | -25.79 | -18.12 |
| YBADJ | TRU30 | -9.89  | -1.37  | 7.19   | 15.54  | 23.41  | 29.85  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU31 | 39.34  | 44.25  | 47.82  | 49.94  | 50.54  | 49.60  |
| YBADJ | TRU31 | 47.16  | 43.66  | 40.10  | 32.18  | 24.32  | 16.02  |
| YBADJ | TRU31 | 7.24   | -1.76  | -10.70 | -19.33 | -27.36 | -33.84 |
| YBADJ | TRU31 | -39.34 | -44.25 | -47.82 | -49.94 | -50.54 | -49.60 |
| YBADJ | TRU31 | -47.16 | -43.66 | -40.10 | -32.18 | -24.32 | -16.02 |
| YBADJ | TRU31 | -7.24  | 1.76   | 10.70  | 19.33  | 27.36  | 33.84  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU32 | 43.28  | 47.98  | 51.21  | 52.90  | 52.98  | 51.44  |
| YBADJ | TRU32 | 48.35  | 44.16  | 39.89  | 31.27  | 22.74  | 13.82  |
| YBADJ | TRU32 | 4.49   | -4.99  | -14.31 | -23.19 | -31.38 | -37.88 |
| YBADJ | TRU32 | -43.28 | -47.98 | -51.21 | -52.90 | -52.98 | -51.44 |
| YBADJ | TRU32 | -48.35 | -44.16 | -39.89 | -31.27 | -22.74 | -13.82 |
| YBADJ | TRU32 | -4.49  | 4.99   | 14.31  | 23.19  | 31.38  | 37.88  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU33 | 47.23  | 51.74  | 54.68  | 55.95  | 55.53  | 53.42  |
| YBADJ | TRU33 | 49.68  | 44.82  | 39.85  | 30.54  | 21.33  | 11.78  |
| YBADJ | TRU33 | 1.87   | -8.09  | -17.81 | -26.99 | -35.34 | -41.90 |
| YBADJ | TRU33 | -47.23 | -51.74 | -54.68 | -55.95 | -55.53 | -53.42 |
| YBADJ | TRU33 | -49.68 | -44.82 | -39.85 | -30.54 | -21.33 | -11.78 |
| YBADJ | TRU33 | -1.87  | 8.09   | 17.81  | 26.99  | 35.34  | 41.90  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU34 | 54.86  | 58.96  | 61.28  | 61.73  | 60.30  | 57.05  |
| YBADJ | TRU34 | 52.06  | 45.87  | 39.54  | 28.88  | 18.37  | 7.61   |
| YBADJ | TRU34 | -3.38  | -14.27 | -24.72 | -34.42 | -43.08 | -49.70 |
| YBADJ | TRU34 | -54.86 | -58.96 | -61.28 | -61.73 | -60.30 | -57.05 |
| YBADJ | TRU34 | -52.06 | -45.87 | -39.54 | -28.88 | -18.37 | -7.61  |
| YBADJ | TRU34 | 3.38   | 14.27  | 24.72  | 34.42  | 43.08  | 49.70  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU35 | 58.78  | 62.72  | 64.74  | 64.80  | 62.89  | 59.07  |
| YBADJ | TRU35 | 53.46  | 46.60  | 39.58  | 28.23  | 17.04  | 5.65   |
| YBADJ | TRU35 | -5.91  | -17.29 | -28.15 | -38.15 | -46.99 | -53.68 |
| YBADJ | TRU35 | -58.78 | -62.72 | -64.74 | -64.80 | -62.89 | -59.07 |
| YBADJ | TRU35 | -53.46 | -46.60 | -39.58 | -28.23 | -17.04 | -5.65  |
| YBADJ | TRU35 | 5.91   | 17.29  | 28.15  | 38.15  | 46.99  | 53.68  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU36 | 62.61  | 66.35  | 68.07  | 67.72  | 65.32  | 60.92  |
| YBADJ | TRU36 | 54.68  | 47.16  | 39.46  | 27.43  | 15.59  | 3.60   |
| YBADJ | TRU36 | -8.51  | -20.36 | -31.59 | -41.86 | -50.86 | -57.59 |
| YBADJ | TRU36 | -62.61 | -66.35 | -68.07 | -67.72 | -65.31 | -60.92 |
| YBADJ | TRU36 | -54.68 | -47.16 | -39.46 | -27.43 | -15.59 | -3.60  |
| YBADJ | TRU36 | 8.51   | 20.36  | 31.59  | 41.86  | 50.86  | 57.59  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU37 | 66.40  | 69.95  | 71.38  | 70.63  | 67.74  | 62.79  |
| YBADJ | TRU37 | 55.94  | 47.76  | 39.39  | 26.69  | 14.21  | 1.60   |
| YBADJ | TRU37 | -11.05 | -23.36 | -34.97 | -45.51 | -54.68 | -61.45 |
| YBADJ | TRU37 | -66.40 | -69.95 | -71.38 | -70.63 | -67.74 | -62.79 |
| YBADJ | TRU37 | -55.94 | -47.76 | -39.39 | -26.69 | -14.21 | -1.60  |
| YBADJ | TRU37 | 11.05  | 23.36  | 34.97  | 45.51  | 54.68  | 61.45  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU38 | 70.30  | 73.65  | 74.76  | 73.60  | 70.21  | 64.68  |
| YBADJ | TRU38 | 57.19  | 48.33  | 39.27  | 25.88  | 12.73  | -0.49  |
| YBADJ | TRU38 | -13.70 | -26.49 | -38.48 | -49.30 | -58.62 | -65.43 |
| YBADJ | TRU38 | -70.30 | -73.65 | -74.76 | -73.60 | -70.21 | -64.68 |
| YBADJ | TRU38 | -57.19 | -48.33 | -39.27 | -25.88 | -12.73 | 0.49   |
| YBADJ | TRU38 | 13.70  | 26.49  | 38.48  | 49.30  | 58.62  | 65.43  |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU39 | 74.25  | 77.39  | 78.17  | 76.57  | 72.65  | 66.52  |
| YBADJ | TRU39 | 58.37  | 48.83  | 39.06  | 24.97  | 11.15  | -2.70  |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TRU39 | -16.46  | -29.73  | -42.09  | -53.17  | -62.64  | -69.48  |
| YBADJ | TRU39 | -74.25  | -77.39  | -78.17  | -76.57  | -72.65  | -66.52  |
| YBADJ | TRU39 | -58.37  | -48.83  | -39.06  | -24.97  | -11.15  | 2.70    |
| YBADJ | TRU39 | 16.46   | 29.73   | 42.09   | 53.17   | 62.64   | 69.48   |
| YBADJ | TRU40 | 78.21   | 81.15   | 81.63   | 79.63   | 75.20   | 68.50   |
| YBADJ | TRU40 | 59.71   | 49.49   | 39.02   | 24.23   | 9.74    | -4.74   |
| YBADJ | TRU40 | -19.08  | -32.83  | -45.59  | -56.96  | -66.61  | -73.50  |
| YBADJ | TRU40 | -78.21  | -81.15  | -81.63  | -79.63  | -75.20  | -68.50  |
| YBADJ | TRU40 | -59.71  | -49.49  | -39.02  | -24.23  | -9.74   | 4.74    |
| YBADJ | TRU40 | 19.08   | 32.83   | 45.59   | 56.96   | 66.61   | 73.50   |
| YBADJ | TRU41 | 85.77   | 88.30   | 88.14   | 85.31   | 79.89   | 72.04   |
| YBADJ | TRU41 | 62.00   | 50.45   | 38.63   | 22.50   | 6.72    | -8.95   |
| YBADJ | TRU41 | -24.36  | -39.02  | -52.50  | -64.38  | -74.31  | -81.25  |
| YBADJ | TRU41 | -85.77  | -88.30  | -88.14  | -85.31  | -79.89  | -72.04  |
| YBADJ | TRU41 | -61.99  | -50.45  | -38.63  | -22.50  | -6.72   | 8.95    |
| YBADJ | TRU41 | 24.36   | 39.02   | 52.50   | 64.38   | 74.31   | 81.25   |
| YBADJ | TRU42 | 89.69   | 92.05   | 91.61   | 88.38   | 82.47   | 74.05   |
| YBADJ | TRU42 | 63.38   | 51.17   | 38.66   | 21.84   | 5.39    | -10.92  |
| YBADJ | TRU42 | -26.89  | -42.05  | -55.93  | -68.11  | -78.22  | -85.23  |
| YBADJ | TRU42 | -89.69  | -92.05  | -91.61  | -88.38  | -82.47  | -74.05  |
| YBADJ | TRU42 | -63.38  | -51.17  | -38.66  | -21.84  | -5.39   | 10.92   |
| YBADJ | TRU42 | 26.89   | 42.05   | 55.93   | 68.11   | 78.22   | 85.23   |
| YBADJ | TRU43 | 93.53   | 95.69   | 94.94   | 91.30   | 84.90   | 75.91   |
| YBADJ | TRU43 | 64.62   | 51.74   | 38.55   | 21.05   | 3.95    | -12.97  |
| YBADJ | TRU43 | -29.49  | -45.12  | -59.37  | -71.82  | -82.09  | -89.14  |
| YBADJ | TRU43 | -93.53  | -95.69  | -94.94  | -91.30  | -84.90  | -75.91  |
| YBADJ | TRU43 | -64.62  | -51.74  | -38.55  | -21.05  | -3.95   | 12.97   |
| YBADJ | TRU43 | 29.49   | 45.12   | 59.37   | 71.82   | 82.09   | 89.14   |
| YBADJ | TRU44 | 97.31   | 99.29   | 98.24   | 94.21   | 87.32   | 77.77   |
| YBADJ | TRU44 | 65.86   | 52.33   | 38.47   | 20.30   | 2.55    | -14.97  |
| YBADJ | TRU44 | -32.03  | -48.12  | -62.75  | -75.48  | -85.91  | -93.00  |
| YBADJ | TRU44 | -97.31  | -99.29  | -98.24  | -94.21  | -87.32  | -77.77  |
| YBADJ | TRU44 | -65.86  | -52.33  | -38.47  | -20.30  | -2.55   | 14.97   |
| YBADJ | TRU44 | 32.03   | 48.12   | 62.75   | 75.48   | 85.91   | 93.00   |
| YBADJ | TRU45 | 101.21  | 102.98  | 101.63  | 97.18   | 89.78   | 79.66   |
| YBADJ | TRU45 | 67.11   | 52.91   | 38.35   | 19.49   | 1.08    | -17.06  |
| YBADJ | TRU45 | -34.68  | -51.25  | -66.26  | -79.26  | -89.85  | -96.98  |
| YBADJ | TRU45 | -101.21 | -102.98 | -101.63 | -97.18  | -89.78  | -79.66  |
| YBADJ | TRU45 | -67.11  | -52.91  | -38.35  | -19.49  | -1.08   | 17.06   |
| YBADJ | TRU45 | 34.68   | 51.25   | 66.26   | 79.26   | 89.85   | 96.98   |
| YBADJ | TRU46 | 105.16  | 106.72  | 105.03  | 100.15  | 92.23   | 81.50   |
| YBADJ | TRU46 | 68.30   | 53.40   | 38.14   | 18.58   | -0.50   | -19.27  |
| YBADJ | TRU46 | -37.45  | -54.49  | -69.87  | -83.13  | -93.87  | -101.03 |
| YBADJ | TRU46 | -105.16 | -106.72 | -105.03 | -100.15 | -92.23  | -81.50  |
| YBADJ | TRU46 | -68.30  | -53.40  | -38.14  | -18.58  | 0.50    | 19.27   |
| YBADJ | TRU46 | 37.45   | 54.49   | 69.87   | 83.13   | 93.87   | 101.03  |
| YBADJ | TTP1  | -102.90 | -85.77  | -66.02  | -44.27  | -21.18  | 2.56    |
| YBADJ | TTP1  | 26.22   | 49.46   | 0.00    | 0.00    | 106.08  | 119.12  |
| YBADJ | TTP1  | 128.54  | 134.06  | 135.50  | 132.83  | 126.12  | 116.30  |
| YBADJ | TTP1  | 102.90  | 85.77   | 66.02   | 44.27   | 21.18   | -2.56   |
| YBADJ | TTP1  | -26.22  | -49.46  | 0.00    | 0.00    | -106.08 | -119.12 |
| YBADJ | TTP1  | -128.54 | -134.06 | -135.50 | -132.83 | -126.12 | -116.30 |
| YBADJ | TTP2  | -100.05 | -83.06  | -63.56  | -42.11  | -19.39  | 3.91    |
| YBADJ | TTP2  | 27.10   | 49.85   | 0.00    | 0.00    | 104.97  | 117.56  |
| YBADJ | TTP2  | 126.57  | 131.74  | 132.91  | 130.04  | 123.22  | 113.38  |
| YBADJ | TTP2  | 100.05  | 83.06   | 63.56   | 42.11   | 19.39   | -3.91   |
| YBADJ | TTP2  | -27.10  | -49.85  | 0.00    | 0.00    | -104.97 | -117.56 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TTP2  | -126.57 | -131.74 | -132.91 | -130.04 | -123.22 | -113.38 |
| YBADJ | TTP3  | -97.05  | -80.20  | -60.91  | -39.78  | -17.43  | 5.44    |
| YBADJ | TTP3  | 28.15   | 50.38   | 0.00    | 0.00    | 103.92  | 116.03  |
| YBADJ | TTP3  | 124.61  | 129.41  | 130.27  | 127.18  | 120.22  | 110.33  |
| YBADJ | TTP3  | 97.05   | 80.20   | 60.91   | 39.78   | 17.43   | -5.44   |
| YBADJ | TTP3  | -28.15  | -50.38  | 0.00    | 0.00    | -103.92 | -116.03 |
| YBADJ | TTP3  | -124.61 | -129.41 | -130.27 | -127.18 | -120.22 | -110.33 |
| YBADJ | TTP4  | -93.98  | -77.31  | -58.30  | -37.52  | -15.59  | 6.80    |
| YBADJ | TTP4  | 28.99   | 50.68   | 0.00    | 0.00    | 102.61  | 114.23  |
| YBADJ | TTP4  | 122.39  | 126.83  | 127.41  | 124.12  | 117.06  | 107.17  |
| YBADJ | TTP4  | 93.98   | 77.31   | 58.30   | 37.52   | 15.59   | -6.80   |
| YBADJ | TTP4  | -28.99  | -50.68  | 0.00    | 0.00    | -102.61 | -114.23 |
| YBADJ | TTP4  | -122.39 | -126.83 | -127.41 | -124.12 | -117.06 | -107.17 |
| YBADJ | TTP5  | -90.99  | -74.49  | -55.72  | -35.26  | -13.73  | 8.22    |
| YBADJ | TTP5  | 29.92   | 51.09   | 0.00    | 0.00    | 101.45  | 112.61  |
| YBADJ | TTP5  | 120.34  | 124.41  | 124.71  | 121.21  | 114.04  | 104.12  |
| YBADJ | TTP5  | 90.99   | 74.49   | 55.72   | 35.26   | 13.73   | -8.22   |
| YBADJ | TTP5  | -29.92  | -51.09  | 0.00    | 0.00    | -101.45 | -112.61 |
| YBADJ | TTP5  | -120.34 | -124.41 | -124.71 | -121.21 | -114.04 | -104.12 |
| YBADJ | TTP6  | -88.10  | -71.70  | -53.13  | -32.95  | -11.76  | 9.79    |
| YBADJ | TTP6  | 31.04   | 51.72   | 0.00    | 0.00    | 100.57  | 111.25  |
| YBADJ | TTP6  | 118.55  | 122.25  | 122.24  | 118.51  | 111.18  | 101.20  |
| YBADJ | TTP6  | 88.10   | 71.70   | 53.13   | 32.94   | 11.76   | -9.79   |
| YBADJ | TTP6  | -31.04  | -51.72  | 0.00    | 0.00    | -100.57 | -111.25 |
| YBADJ | TTP6  | -118.55 | -122.25 | -122.24 | -118.51 | -111.18 | -101.20 |
| YBADJ | TTP7  | -85.26  | -69.04  | -50.72  | -30.86  | -10.06  | 11.04   |
| YBADJ | TTP7  | 31.81   | 51.99   | 0.00    | 0.00    | 99.34   | 109.58  |
| YBADJ | TTP7  | 116.49  | 119.86  | 119.59  | 115.68  | 108.26  | 98.28   |
| YBADJ | TTP7  | 85.26   | 69.04   | 50.72   | 30.86   | 10.06   | -11.04  |
| YBADJ | TTP7  | -31.81  | -51.99  | 0.00    | 0.00    | -99.34  | -109.58 |
| YBADJ | TTP7  | -116.49 | -119.86 | -119.59 | -115.68 | -108.26 | -98.28  |
| YBADJ | TTP8  | -82.40  | -66.33  | -48.25  | -28.70  | -8.27   | 12.40   |
| YBADJ | TTP8  | 32.70   | 52.38   | 0.00    | 0.00    | 98.23   | 108.01  |
| YBADJ | TTP8  | 114.52  | 117.54  | 116.99  | 112.89  | 105.36  | 95.35   |
| YBADJ | TTP8  | 82.40   | 66.33   | 48.25   | 28.70   | 8.27    | -12.40  |
| YBADJ | TTP8  | -32.70  | -52.38  | 0.00    | 0.00    | -98.23  | -108.01 |
| YBADJ | TTP8  | -114.52 | -117.54 | -116.99 | -112.89 | -105.36 | -95.35  |
| YBADJ | TTP9  | -79.41  | -63.47  | -45.61  | -26.37  | -6.32   | 13.92   |
| YBADJ | TTP9  | 33.74   | 52.91   | 0.00    | 0.00    | 97.19   | 106.49  |
| YBADJ | TTP9  | 112.56  | 115.21  | 114.36  | 110.03  | 102.36  | 92.31   |
| YBADJ | TTP9  | 79.41   | 63.47   | 45.61   | 26.37   | 6.32    | -13.92  |
| YBADJ | TTP9  | -33.74  | -52.91  | 0.00    | 0.00    | -97.19  | -106.49 |
| YBADJ | TTP9  | -112.56 | -115.21 | -114.36 | -110.03 | -102.36 | -92.31  |
| YBADJ | TTP10 | -76.33  | -60.58  | -42.99  | -24.10  | -4.47   | 15.29   |
| YBADJ | TTP10 | 34.59   | 53.21   | 0.00    | 0.00    | 95.87   | 104.69  |
| YBADJ | TTP10 | 110.33  | 112.62  | 111.49  | 106.97  | 99.20   | 89.14   |
| YBADJ | TTP10 | 76.33   | 60.58   | 42.99   | 24.10   | 4.47    | -15.29  |
| YBADJ | TTP10 | -34.59  | -53.21  | 0.00    | 0.00    | -95.87  | -104.69 |
| YBADJ | TTP10 | -110.33 | -112.62 | -111.49 | -106.97 | -99.20  | -89.14  |
| YBADJ | TTP11 | -73.35  | -57.76  | -40.42  | -21.85  | -2.61   | 16.71   |
| YBADJ | TTP11 | 35.51   | 53.62   | 0.00    | 83.79   | 94.72   | 103.07  |
| YBADJ | TTP11 | 108.29  | 110.22  | 108.80  | 104.07  | 96.18   | 86.10   |
| YBADJ | TTP11 | 73.35   | 57.76   | 40.42   | 21.85   | 2.61    | -16.71  |
| YBADJ | TTP11 | -35.51  | -53.62  | 0.00    | -83.80  | -94.72  | -103.07 |
| YBADJ | TTP11 | -108.29 | -110.22 | -108.80 | -104.07 | -96.18  | -86.10  |
| YBADJ | TTP12 | -70.46  | -54.98  | -37.83  | -19.53  | -0.64   | 18.27   |

|       |       |         |         |         |         |        |         |
|-------|-------|---------|---------|---------|---------|--------|---------|
| YBADJ | TTP12 | 36.63   | 54.25   | 0.00    | 83.41   | 93.83  | 101.71  |
| YBADJ | TTP12 | 106.50  | 108.06  | 106.33  | 101.37  | 93.33  | 83.18   |
| YBADJ | TTP12 | 70.46   | 54.98   | 37.83   | 19.53   | 0.64   | -18.27  |
| YBADJ | TTP12 | -36.63  | -54.25  | 0.00    | -83.41  | -93.83 | -101.71 |
| YBADJ | TTP12 | -106.50 | -108.06 | -106.33 | -101.37 | -93.33 | -83.18  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP13 | -67.24  | -51.93  | -35.04  | -17.09  | 1.38   | 19.81   |
| YBADJ | TTP13 | 37.64   | 54.70   | 0.00    | 82.72   | 92.59  | 99.96   |
| YBADJ | TTP13 | 104.29  | 105.46  | 103.42  | 98.24   | 90.07  | 79.89   |
| YBADJ | TTP13 | 67.24   | 51.93   | 35.04   | 17.09   | -1.38  | -19.81  |
| YBADJ | TTP13 | -37.64  | -54.70  | 0.00    | -82.72  | -92.59 | -99.96  |
| YBADJ | TTP13 | -104.29 | -105.46 | -103.42 | -98.24  | -90.07 | -79.89  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP14 | -64.38  | -49.23  | -32.57  | -14.93  | 3.17   | 21.17   |
| YBADJ | TTP14 | 38.52   | 55.09   | 0.00    | 82.09   | 91.48  | 98.40   |
| YBADJ | TTP14 | 102.33  | 103.15  | 100.83  | 95.45   | 87.17  | 76.97   |
| YBADJ | TTP14 | 64.38   | 49.23   | 32.57   | 14.93   | -3.17  | -21.17  |
| YBADJ | TTP14 | -38.52  | -55.09  | 0.00    | -82.09  | -91.48 | -98.40  |
| YBADJ | TTP14 | -102.33 | -103.15 | -100.83 | -95.45  | -87.17 | -76.97  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP15 | -61.38  | -46.36  | -29.93  | -12.59  | 5.13   | 22.69   |
| YBADJ | TTP15 | 39.57   | 55.62   | 0.00    | 81.56   | 90.44  | 96.87   |
| YBADJ | TTP15 | 100.37  | 100.81  | 98.19   | 92.59   | 84.17  | 73.92   |
| YBADJ | TTP15 | 61.38   | 46.36   | 29.93   | 12.59   | -5.13  | -22.69  |
| YBADJ | TTP15 | -39.57  | -55.62  | 0.00    | -81.56  | -90.44 | -96.87  |
| YBADJ | TTP15 | -100.37 | -100.81 | -98.19  | -92.59  | -84.17 | -73.92  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP16 | -58.31  | -43.47  | -27.32  | -10.33  | 6.97   | 24.06   |
| YBADJ | TTP16 | 40.42   | 55.93   | 0.00    | 80.78   | 89.13  | 95.09   |
| YBADJ | TTP16 | 98.15   | 98.23   | 95.33   | 89.53   | 81.02  | 70.76   |
| YBADJ | TTP16 | 58.31   | 43.47   | 27.32   | 10.33   | -6.97  | -24.06  |
| YBADJ | TTP16 | -40.42  | -55.93  | 0.00    | -80.78  | -89.13 | -95.09  |
| YBADJ | TTP16 | -98.15  | -98.23  | -95.33  | -89.53  | -81.02 | -70.76  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP17 | -55.33  | -40.65  | -24.73  | -8.07   | 8.84   | 25.49   |
| YBADJ | TTP17 | 41.35   | 56.34   | 0.00    | 80.13   | 87.97  | 93.46   |
| YBADJ | TTP17 | 96.10   | 95.82   | 92.63   | 86.63   | 77.99  | 67.71   |
| YBADJ | TTP17 | 55.33   | 40.65   | 24.73   | 8.07    | -8.84  | -25.49  |
| YBADJ | TTP17 | -41.35  | -56.34  | 0.00    | -80.13  | -87.97 | -93.46  |
| YBADJ | TTP17 | -96.10  | -95.82  | -92.63  | -86.63  | -77.99 | -67.71  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP18 | -52.43  | -37.86  | -22.14  | -5.75   | 10.81  | 27.05   |
| YBADJ | TTP18 | 42.46   | 56.97   | 0.00    | 79.74   | 87.09  | 92.10   |
| YBADJ | TTP18 | 94.31   | 93.66   | 90.16   | 83.92   | 75.14  | 64.79   |
| YBADJ | TTP18 | 52.43   | 37.86   | 22.14   | 5.75    | -10.81 | -27.05  |
| YBADJ | TTP18 | -42.46  | -56.97  | 0.00    | -79.74  | -87.09 | -92.10  |
| YBADJ | TTP18 | -94.31  | -93.66  | -90.16  | -83.92  | -75.14 | -64.79  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP19 | -49.23  | -34.86  | -19.42  | -3.39   | 12.73  | 28.48   |
| YBADJ | TTP19 | 43.35   | 57.29   | 0.00    | 78.92   | 85.73  | 90.24   |
| YBADJ | TTP19 | 92.01   | 90.98   | 87.19   | 80.75   | 71.85  | 61.50   |
| YBADJ | TTP19 | 49.23   | 34.86   | 19.42   | 3.39    | -12.74 | -28.48  |
| YBADJ | TTP19 | -43.35  | -57.29  | 0.00    | -78.92  | -85.73 | -90.24  |
| YBADJ | TTP19 | -92.01  | -90.98  | -87.19  | -80.75  | -71.85 | -61.50  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP20 | -46.38  | -32.15  | -16.95  | -1.23   | 14.52  | 29.83   |
| YBADJ | TTP20 | 44.24   | 57.68   | 0.00    | 78.30   | 84.62  | 88.67   |
| YBADJ | TTP20 | 90.04   | 88.67   | 84.60   | 77.96   | 68.96  | 58.58   |
| YBADJ | TTP20 | 46.38   | 32.15   | 16.95   | 1.23    | -14.52 | -29.83  |
| YBADJ | TTP20 | -44.24  | -57.68  | 0.00    | -78.30  | -84.62 | -88.67  |
| YBADJ | TTP20 | -90.04  | -88.67  | -84.60  | -77.96  | -68.96 | -58.58  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP21 | -43.38  | -29.29  | -14.31  | 1.10    | 16.48  | 31.36   |
| YBADJ | TTP21 | 45.28   | 58.21   | 0.00    | 77.77   | 83.57  | 87.15   |
| YBADJ | TTP21 | 88.08   | 86.33   | 81.96   | 75.10   | 65.95  | 55.53   |
| YBADJ | TTP21 | 43.38   | 29.29   | 14.31   | -1.10   | -16.48 | -31.36  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP21 | -45.28 | -58.21 | 0.00   | -77.77 | -83.57 | -87.15 |
| YBADJ | TTP21 | -88.08 | -86.33 | -81.96 | -75.10 | -65.95 | -55.53 |
| YBADJ | TTP22 | -40.31 | -26.40 | -11.69 | 3.37   | 18.33  | 32.73  |
| YBADJ | TTP22 | 46.14  | 58.52  | 0.00   | 76.98  | 82.27  | 85.36  |
| YBADJ | TTP22 | 85.86  | 83.75  | 79.10  | 72.04  | 62.80  | 52.37  |
| YBADJ | TTP22 | 40.31  | 26.40  | 11.69  | -3.37  | -18.33 | -32.73 |
| YBADJ | TTP22 | -46.14 | -58.52 | 0.00   | -76.98 | -82.27 | -85.36 |
| YBADJ | TTP22 | -85.86 | -83.75 | -79.10 | -72.04 | -62.80 | -52.37 |
| YBADJ | TTP23 | -37.32 | -23.58 | -9.11  | 5.63   | 20.20  | 34.15  |
| YBADJ | TTP23 | 47.07  | 58.94  | 0.00   | 76.33  | 81.11  | 83.73  |
| YBADJ | TTP23 | 83.81  | 81.34  | 76.40  | 69.14  | 59.77  | 49.32  |
| YBADJ | TTP23 | 37.32  | 23.58  | 9.11   | -5.63  | -20.20 | -34.15 |
| YBADJ | TTP23 | -47.07 | -58.94 | 0.00   | -76.33 | -81.11 | -83.73 |
| YBADJ | TTP23 | -83.81 | -81.34 | -76.40 | -69.14 | -59.77 | -49.32 |
| YBADJ | TTP24 | -34.43 | -20.79 | -6.52  | 7.94   | 22.17  | 35.72  |
| YBADJ | TTP24 | 48.18  | 59.56  | 0.00   | 75.95  | 80.23  | 82.38  |
| YBADJ | TTP24 | 82.02  | 79.18  | 73.93  | 66.43  | 56.92  | 46.40  |
| YBADJ | TTP24 | 34.43  | 20.79  | 6.52   | -7.94  | -22.17 | -35.72 |
| YBADJ | TTP24 | -48.18 | -59.56 | 0.00   | -75.95 | -80.23 | -82.38 |
| YBADJ | TTP24 | -82.02 | -79.18 | -73.93 | -66.43 | -56.92 | -46.40 |
| YBADJ | TTP25 | -31.69 | -18.20 | -4.16  | 10.01  | 23.87  | 37.01  |
| YBADJ | TTP25 | 49.03  | 59.93  | 0.00   | 75.34  | 79.16  | 80.87  |
| YBADJ | TTP25 | 80.13  | 76.96  | 71.45  | 63.76  | 54.14  | 43.60  |
| YBADJ | TTP25 | 31.69  | 18.20  | 4.16   | -10.01 | -23.87 | -37.01 |
| YBADJ | TTP25 | -49.03 | -59.93 | 0.00   | -75.34 | -79.16 | -80.87 |
| YBADJ | TTP25 | -80.13 | -76.96 | -71.45 | -63.76 | -54.14 | -43.60 |
| YBADJ | TTP26 | -28.83 | -15.50 | -1.69  | 12.17  | 25.66  | 38.37  |
| YBADJ | TTP26 | 49.91  | 60.32  | 0.00   | 74.72  | 78.04  | 79.31  |
| YBADJ | TTP26 | 78.16  | 74.64  | 68.86  | 60.98  | 51.24  | 40.68  |
| YBADJ | TTP26 | 28.83  | 15.50  | 1.69   | -12.17 | -25.66 | -38.37 |
| YBADJ | TTP26 | -49.91 | -60.32 | 0.00   | -74.72 | -78.04 | -79.31 |
| YBADJ | TTP26 | -78.16 | -74.64 | -68.86 | -60.98 | -51.24 | -40.68 |
| YBADJ | TTP27 | -25.83 | -12.63 | 0.95   | 14.51  | 27.62  | 39.89  |
| YBADJ | TTP27 | 50.95  | 60.85  | 0.00   | 74.19  | 77.00  | 77.78  |
| YBADJ | TTP27 | 76.20  | 72.31  | 66.22  | 58.11  | 48.24  | 37.63  |
| YBADJ | TTP27 | 25.83  | 12.63  | -0.95  | -14.51 | -27.62 | -39.89 |
| YBADJ | TTP27 | -50.95 | -60.85 | 0.00   | -74.19 | -77.00 | -77.78 |
| YBADJ | TTP27 | -76.20 | -72.31 | -66.22 | -58.11 | -48.24 | -37.63 |
| YBADJ | TTP28 | -22.76 | -9.75  | 3.56   | 16.77  | 29.46  | 41.26  |
| YBADJ | TTP28 | 51.80  | 61.15  | 0.00   | 73.39  | 75.68  | 75.99  |
| YBADJ | TTP28 | 73.98  | 69.73  | 63.35  | 55.06  | 45.09  | 34.47  |
| YBADJ | TTP28 | 22.76  | 9.75   | -3.56  | -16.77 | -29.46 | -41.26 |
| YBADJ | TTP28 | -51.80 | -61.15 | 0.00   | -73.39 | -75.68 | -75.99 |
| YBADJ | TTP28 | -73.98 | -69.73 | -63.35 | -55.06 | -45.09 | -34.47 |
| YBADJ | TTP29 | -19.78 | -6.92  | 6.14   | 19.02  | 31.33  | 42.68  |
| YBADJ | TTP29 | 52.73  | 61.56  | 0.00   | 72.74  | 74.53  | 74.36  |
| YBADJ | TTP29 | 71.93  | 67.31  | 60.65  | 52.15  | 42.06  | 31.42  |
| YBADJ | TTP29 | 19.78  | 6.92   | -6.14  | -19.02 | -31.33 | -42.68 |
| YBADJ | TTP29 | -52.73 | -61.56 | 0.00   | -72.74 | -74.53 | -74.36 |
| YBADJ | TTP29 | -71.93 | -67.31 | -60.65 | -52.15 | -42.06 | -31.42 |
| YBADJ | TTP30 | -16.88 | -4.14  | 8.73   | 21.34  | 33.30  | 44.24  |
| YBADJ | TTP30 | 53.84  | 62.19  | 0.00   | 72.36  | 73.64  | 73.00  |
| YBADJ | TTP30 | 70.14  | 65.15  | 58.18  | 49.45  | 39.21  | 28.50  |
| YBADJ | TTP30 | 16.88  | 4.14   | -8.73  | -21.34 | -33.30 | -44.24 |
| YBADJ | TTP30 | -53.84 | -62.19 | 0.00   | -72.36 | -73.64 | -73.00 |
| YBADJ | TTP30 | -70.14 | -65.15 | -58.18 | -49.45 | -39.21 | -28.50 |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP31 | -13.62 | -1.01  | 11.64  | 23.94  | 35.50  | 45.99  |
| YBADJ | TTP31 | 55.08  | 62.88  | 0.00   | 71.90  | 72.63  | 71.46  |
| YBADJ | TTP31 | 68.12  | 62.71  | 55.39  | 46.40  | 35.99  | 25.21  |
| YBADJ | TTP31 | 13.62  | 1.01   | -11.64 | -23.94 | -35.50 | -45.99 |
| YBADJ | TTP31 | -55.08 | -62.88 | 0.00   | -71.90 | -72.63 | -71.46 |
| YBADJ | TTP31 | -68.12 | -62.71 | -55.39 | -46.40 | -35.99 | -25.21 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP32 | -10.77 | 1.70   | 14.11  | 26.10  | 37.29  | 47.35  |
| YBADJ | TTP32 | 55.97  | 63.27  | 0.00   | 71.28  | 71.52  | 69.90  |
| YBADJ | TTP32 | 66.15  | 60.40  | 52.81  | 43.61  | 33.09  | 22.29  |
| YBADJ | TTP32 | 10.77  | -1.70  | -14.11 | -26.10 | -37.29 | -47.35 |
| YBADJ | TTP32 | -55.97 | -63.27 | 0.00   | -71.28 | -71.52 | -69.90 |
| YBADJ | TTP32 | -66.15 | -60.40 | -52.81 | -43.61 | -33.09 | -22.29 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP33 | -7.76  | 4.56   | 16.75  | 28.43  | 39.25  | 48.87  |
| YBADJ | TTP33 | 57.01  | 63.79  | 0.00   | 70.75  | 70.48  | 68.37  |
| YBADJ | TTP33 | 64.19  | 58.06  | 50.16  | 40.74  | 30.09  | 19.24  |
| YBADJ | TTP33 | 7.76   | -4.56  | -16.75 | -28.43 | -39.25 | -48.87 |
| YBADJ | TTP33 | -57.01 | -63.79 | 0.00   | -70.75 | -70.48 | -68.37 |
| YBADJ | TTP33 | -64.19 | -58.06 | -50.16 | -40.74 | -30.09 | -19.24 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP34 | -4.69  | 7.45   | 19.37  | 30.70  | 41.10  | 50.24  |
| YBADJ | TTP34 | 57.86  | 64.11  | 0.00   | 69.96  | 69.17  | 66.58  |
| YBADJ | TTP34 | 61.98  | 55.49  | 47.31  | 37.69  | 26.93  | 16.08  |
| YBADJ | TTP34 | 4.69   | -7.45  | -19.37 | -30.70 | -41.10 | -50.24 |
| YBADJ | TTP34 | -57.86 | -64.11 | 0.00   | -69.96 | -69.17 | -66.58 |
| YBADJ | TTP34 | -61.98 | -55.48 | -47.31 | -37.69 | -26.93 | -16.08 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP35 | -1.71  | 10.28  | 21.95  | 32.96  | 42.96  | 51.66  |
| YBADJ | TTP35 | 58.80  | 64.52  | 0.00   | 69.31  | 68.01  | 64.96  |
| YBADJ | TTP35 | 59.92  | 53.07  | 44.61  | 34.79  | 23.91  | 13.03  |
| YBADJ | TTP35 | 1.71   | -10.28 | -21.95 | -32.96 | -42.96 | -51.66 |
| YBADJ | TTP35 | -58.80 | -64.52 | 0.00   | -69.31 | -68.01 | -64.96 |
| YBADJ | TTP35 | -59.92 | -53.07 | -44.61 | -34.79 | -23.91 | -13.03 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP36 | 1.19   | 13.06  | 24.54  | 35.27  | 44.93  | 53.23  |
| YBADJ | TTP36 | 59.91  | 65.14  | 0.00   | 68.93  | 67.13  | 63.60  |
| YBADJ | TTP36 | 58.14  | 50.91  | 42.14  | 32.08  | 21.05  | 10.11  |
| YBADJ | TTP36 | -1.19  | -13.06 | -24.54 | -35.27 | -44.93 | -53.23 |
| YBADJ | TTP36 | -59.91 | -65.14 | 0.00   | -68.93 | -67.13 | -63.60 |
| YBADJ | TTP36 | -58.14 | -50.91 | -42.14 | -32.08 | -21.05 | -10.11 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP37 | 4.50   | 16.18  | 27.37  | 37.72  | 46.93  | 54.72  |
| YBADJ | TTP37 | 60.84  | 65.49  | 0.00   | 68.09  | 65.73  | 61.68  |
| YBADJ | TTP37 | 55.76  | 48.14  | 39.06  | 28.79  | 17.65  | 6.70   |
| YBADJ | TTP37 | -4.50  | -16.18 | -27.37 | -37.72 | -46.93 | -54.72 |
| YBADJ | TTP37 | -60.84 | -65.49 | 0.00   | -68.09 | -65.73 | -61.68 |
| YBADJ | TTP37 | -55.76 | -48.14 | -39.06 | -28.79 | -17.65 | -6.70  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP38 | 7.36   | 18.88  | 29.84  | 39.88  | 48.72  | 56.07  |
| YBADJ | TTP38 | 61.72  | 65.88  | 0.00   | 67.46  | 64.62  | 60.11  |
| YBADJ | TTP38 | 53.79  | 45.82  | 36.47  | 26.01  | 14.76  | 3.78   |
| YBADJ | TTP38 | -7.36  | -18.88 | -29.84 | -39.88 | -48.72 | -56.07 |
| YBADJ | TTP38 | -61.72 | -65.88 | 0.00   | -67.46 | -64.62 | -60.11 |
| YBADJ | TTP38 | -53.79 | -45.82 | -36.47 | -26.01 | -14.76 | -3.78  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP39 | 10.36  | 21.75  | 32.48  | 42.22  | 50.68  | 57.60  |
| YBADJ | TTP39 | 62.77  | 66.41  | 0.00   | 66.93  | 63.57  | 58.59  |
| YBADJ | TTP39 | 51.83  | 43.49  | 33.83  | 23.14  | 11.75  | 0.73   |
| YBADJ | TTP39 | -10.36 | -21.75 | -32.48 | -42.22 | -50.68 | -57.60 |
| YBADJ | TTP39 | -62.77 | -66.41 | 0.00   | -66.93 | -63.57 | -58.59 |
| YBADJ | TTP39 | -51.83 | -43.49 | -33.83 | -23.14 | -11.75 | -0.73  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP40 | 13.43  | 24.64  | 35.09  | 44.49  | 52.53  | 58.97  |
| YBADJ | TTP40 | 63.62  | 66.72  | 0.00   | 66.15  | 62.27  | 56.80  |
| YBADJ | TTP40 | 49.61  | 40.91  | 30.97  | 20.09  | 8.60   | -2.43  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP40 | -13.43 | -24.64 | -35.09 | -44.49 | -52.53 | -58.97 |
| YBADJ | TTP40 | -63.62 | -66.72 | 0.00   | -66.15 | -62.27 | -56.80 |
| YBADJ | TTP40 | -49.61 | -40.91 | -30.97 | -20.09 | -8.60  | 2.43   |
| YBADJ | TTP41 | 16.41  | 27.46  | 37.68  | 46.75  | 54.39  | 60.39  |
| YBADJ | TTP41 | 64.55  | 67.13  | 0.00   | 65.50  | 61.11  | 55.17  |
| YBADJ | TTP41 | 47.56  | 38.50  | 28.27  | 17.18  | 5.57   | -5.48  |
| YBADJ | TTP41 | -16.41 | -27.46 | -37.68 | -46.75 | -54.39 | -60.39 |
| YBADJ | TTP41 | -64.55 | -67.13 | 0.00   | -65.50 | -61.11 | -55.17 |
| YBADJ | TTP41 | -47.56 | -38.50 | -28.27 | -17.18 | -5.57  | 5.48   |
| YBADJ | TTP42 | 19.31  | 30.25  | 40.26  | 49.06  | 56.36  | 61.96  |
| YBADJ | TTP42 | 65.66  | 67.76  | 0.00   | 65.11  | 60.22  | 53.82  |
| YBADJ | TTP42 | 45.77  | 36.34  | 25.80  | 14.48  | 2.72   | -8.40  |
| YBADJ | TTP42 | -19.31 | -30.25 | -40.26 | -49.06 | -56.36 | -61.96 |
| YBADJ | TTP42 | -65.66 | -67.76 | 0.00   | -65.11 | -60.22 | -53.82 |
| YBADJ | TTP42 | -45.77 | -36.34 | -25.80 | -14.48 | -2.72  | 8.40   |
| YBADJ | TTP43 | 22.07  | 32.88  | 42.69  | 51.20  | 58.16  | 63.36  |
| YBADJ | TTP43 | 66.62  | 68.24  | 0.00   | 64.62  | 59.27  | 52.42  |
| YBADJ | TTP43 | 43.97  | 34.20  | 23.38  | 11.85  | -0.04  | -11.20 |
| YBADJ | TTP43 | -22.07 | -32.88 | -42.69 | -51.20 | -58.16 | -63.36 |
| YBADJ | TTP43 | -66.62 | -68.24 | 0.00   | -64.62 | -59.27 | -52.42 |
| YBADJ | TTP43 | -43.97 | -34.20 | -23.38 | -11.85 | 0.04   | 11.20  |
| YBADJ | TTP44 | 24.92  | 35.58  | 45.16  | 53.36  | 59.95  | 64.71  |
| YBADJ | TTP44 | 67.51  | 68.63  | 0.00   | 64.00  | 58.15  | 50.85  |
| YBADJ | TTP44 | 42.00  | 31.88  | 20.79  | 9.06   | -2.93  | -14.12 |
| YBADJ | TTP44 | -24.92 | -35.58 | -45.16 | -53.36 | -59.95 | -64.71 |
| YBADJ | TTP44 | -67.51 | -68.63 | 0.00   | -64.00 | -58.15 | -50.85 |
| YBADJ | TTP44 | -42.00 | -31.88 | -20.79 | -9.06  | 2.93   | 14.12  |
| YBADJ | TTP45 | 27.92  | 38.45  | 47.80  | 55.70  | 61.91  | 66.24  |
| YBADJ | TTP45 | 68.55  | 69.16  | 0.00   | 63.47  | 57.11  | 49.33  |
| YBADJ | TTP45 | 40.04  | 29.54  | 18.15  | 6.20   | -5.94  | -17.17 |
| YBADJ | TTP45 | -27.92 | -38.45 | -47.80 | -55.70 | -61.91 | -66.24 |
| YBADJ | TTP45 | -68.55 | -69.16 | 0.00   | -63.47 | -57.11 | -49.33 |
| YBADJ | TTP45 | -40.04 | -29.54 | -18.15 | -6.20  | 5.94   | 17.17  |
| YBADJ | TTP46 | 30.99  | 41.33  | 50.41  | 57.96  | 63.75  | 67.60  |
| YBADJ | TTP46 | 69.40  | 69.46  | 0.00   | 62.67  | 55.80  | 47.53  |
| YBADJ | TTP46 | 37.82  | 26.96  | 15.29  | 3.14   | -9.09  | -20.33 |
| YBADJ | TTP46 | -30.99 | -41.33 | -50.41 | -57.96 | -63.75 | -67.60 |
| YBADJ | TTP46 | -69.40 | -69.46 | 0.00   | -62.67 | -55.80 | -47.53 |
| YBADJ | TTP46 | -37.82 | -26.96 | -15.29 | -3.14  | 9.09   | 20.33  |
| YBADJ | TTP47 | 33.98  | 44.16  | 52.99  | 60.22  | 65.62  | 69.02  |
| YBADJ | TTP47 | 70.33  | 69.88  | 0.00   | 62.03  | 54.64  | 45.90  |
| YBADJ | TTP47 | 35.77  | 24.55  | 12.58  | 0.24   | -12.12 | -23.38 |
| YBADJ | TTP47 | -33.98 | -44.16 | -52.99 | -60.22 | -65.62 | -69.02 |
| YBADJ | TTP47 | -70.33 | -69.88 | 0.00   | -62.03 | -54.64 | -45.90 |
| YBADJ | TTP47 | -35.77 | -24.55 | -12.58 | -0.24  | 12.12  | 23.38  |
| YBADJ | TTP48 | 36.87  | 46.94  | 55.58  | 62.53  | 67.59  | 70.58  |
| YBADJ | TTP48 | 71.44  | 70.50  | 0.00   | 61.64  | 53.75  | 44.55  |
| YBADJ | TTP48 | 33.98  | 22.39  | 10.12  | -2.47  | -14.97 | -26.30 |
| YBADJ | TTP48 | -36.87 | -46.94 | -55.58 | -62.53 | -67.59 | -70.58 |
| YBADJ | TTP48 | -71.44 | -70.50 | 0.00   | -61.64 | -53.75 | -44.55 |
| YBADJ | TTP48 | -33.98 | -22.39 | -10.12 | 2.47   | 14.97  | 26.30  |
| YBADJ | TTP49 | 40.21  | 50.10  | 58.47  | 65.07  | 69.69  | 72.19  |
| YBADJ | TTP49 | 72.49  | 70.98  | 0.00   | 60.93  | 52.47  | 42.74  |
| YBADJ | TTP49 | 31.70  | 19.70  | 7.10   | -5.71  | -18.35 | -29.71 |
| YBADJ | TTP49 | -40.21 | -50.10 | -58.47 | -65.07 | -69.69 | -72.19 |
| YBADJ | TTP49 | -72.49 | -70.98 | 0.00   | -60.93 | -52.47 | -42.74 |
| YBADJ | TTP49 | -31.70 | -19.70 | -7.10  | 5.71   | 18.35  | 29.71  |



|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP50 | 43.06  | 52.81  | 60.94  | 67.23  | 71.47  | 73.54  |
| YBADJ | TTP50 | 73.38  | 71.36  | 0.00   | 60.30  | 51.36  | 41.17  |
| YBADJ | TTP50 | 29.73  | 17.39  | 4.51   | -8.50  | -21.25 | -32.63 |
| YBADJ | TTP50 | -43.06 | -52.81 | -60.94 | -67.23 | -71.47 | -73.54 |
| YBADJ | TTP50 | -73.38 | -71.36 | 0.00   | -60.30 | -51.36 | -41.17 |
| YBADJ | TTP50 | -29.73 | -17.39 | -4.51  | 8.50   | 21.25  | 32.63  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP51 | 46.07  | 55.67  | 63.58  | 69.56  | 73.43  | 75.07  |
| YBADJ | TTP51 | 74.42  | 71.89  | 0.00   | 59.77  | 50.32  | 39.65  |
| YBADJ | TTP51 | 27.77  | 15.05  | 1.87   | -11.36 | -24.25 | -35.68 |
| YBADJ | TTP51 | -46.07 | -55.67 | -63.58 | -69.56 | -73.43 | -75.07 |
| YBADJ | TTP51 | -74.42 | -71.89 | 0.00   | -59.77 | -50.32 | -39.65 |
| YBADJ | TTP51 | -27.77 | -15.05 | -1.87  | 11.36  | 24.25  | 35.68  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP52 | 49.14  | 58.56  | 66.20  | 71.83  | 75.28  | 76.44  |
| YBADJ | TTP52 | 75.28  | 72.21  | 0.00   | 58.99  | 49.01  | 37.86  |
| YBADJ | TTP52 | 25.56  | 12.48  | -0.98  | -14.41 | -27.41 | -38.84 |
| YBADJ | TTP52 | -49.14 | -58.56 | -66.20 | -71.83 | -75.28 | -76.44 |
| YBADJ | TTP52 | -75.28 | -72.21 | 0.00   | -58.99 | -49.01 | -37.86 |
| YBADJ | TTP52 | -25.56 | -12.48 | 0.98   | 14.41  | 27.41  | 38.84  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP53 | 52.12  | 61.38  | 68.78  | 74.08  | 77.14  | 77.85  |
| YBADJ | TTP53 | 76.20  | 72.61  | 0.00   | 58.33  | 47.85  | 36.22  |
| YBADJ | TTP53 | 23.50  | 10.06  | -3.69  | -17.32 | -30.43 | -41.89 |
| YBADJ | TTP53 | -52.12 | -61.38 | -68.78 | -74.08 | -77.14 | -77.85 |
| YBADJ | TTP53 | -76.20 | -72.61 | 0.00   | -58.33 | -47.85 | -36.22 |
| YBADJ | TTP53 | -23.50 | -10.06 | 3.69   | 17.32  | 30.43  | 41.89  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP54 | 55.02  | 64.17  | 71.37  | 76.40  | 79.12  | 79.42  |
| YBADJ | TTP54 | 77.32  | 73.24  | 0.00   | 57.95  | 46.97  | 34.88  |
| YBADJ | TTP54 | 21.72  | 7.90   | -6.15  | -20.02 | -33.29 | -44.81 |
| YBADJ | TTP54 | -55.02 | -64.17 | -71.37 | -76.40 | -79.12 | -79.42 |
| YBADJ | TTP54 | -77.32 | -73.24 | 0.00   | -57.95 | -46.97 | -34.88 |
| YBADJ | TTP54 | -21.72 | -7.90  | 6.15   | 20.02  | 33.29  | 44.81  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP55 | 57.95  | 66.90  | 73.82  | 78.50  | 80.79  | 80.62  |
| YBADJ | TTP55 | 78.01  | 73.41  | 0.00   | 57.06  | 45.58  | 33.03  |
| YBADJ | TTP55 | 19.48  | 5.34   | -8.97  | -23.01 | -36.34 | -47.85 |
| YBADJ | TTP55 | -57.95 | -66.90 | -73.82 | -78.50 | -80.79 | -80.62 |
| YBADJ | TTP55 | -78.01 | -73.41 | 0.00   | -57.06 | -45.58 | -33.03 |
| YBADJ | TTP55 | -19.48 | -5.34  | 8.97   | 23.01  | 36.34  | 47.85  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP56 | 60.81  | 69.61  | 76.30  | 80.66  | 82.58  | 81.98  |
| YBADJ | TTP56 | 78.90  | 73.80  | 0.00   | 56.43  | 44.47  | 31.47  |
| YBADJ | TTP56 | 17.51  | 3.01   | -11.57 | -25.80 | -39.25 | -50.78 |
| YBADJ | TTP56 | -60.81 | -69.61 | -76.30 | -80.66 | -82.58 | -81.98 |
| YBADJ | TTP56 | -78.90 | -73.80 | 0.00   | -56.43 | -44.47 | -31.47 |
| YBADJ | TTP56 | -17.51 | -3.01  | 11.57  | 25.80  | 39.25  | 50.78  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP57 | 63.81  | 72.47  | 78.93  | 82.99  | 84.53  | 83.50  |
| YBADJ | TTP57 | 79.94  | 74.32  | 0.00   | 55.90  | 43.43  | 29.95  |
| YBADJ | TTP57 | 15.55  | 0.69   | -14.20 | -28.66 | -42.24 | -53.82 |
| YBADJ | TTP57 | -63.81 | -72.47 | -78.93 | -82.99 | -84.53 | -83.50 |
| YBADJ | TTP57 | -79.94 | -74.32 | 0.00   | -55.90 | -43.43 | -29.95 |
| YBADJ | TTP57 | -15.55 | -0.69  | 14.20  | 28.66  | 42.24  | 53.82  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP58 | 66.89  | 75.37  | 81.55  | 85.27  | 86.39  | 84.88  |
| YBADJ | TTP58 | 80.80  | 74.64  | 0.00   | 55.12  | 42.12  | 28.15  |
| YBADJ | TTP58 | 13.33  | -1.90  | -17.07 | -31.72 | -45.41 | -56.99 |
| YBADJ | TTP58 | -66.89 | -75.37 | -81.55 | -85.27 | -86.39 | -84.88 |
| YBADJ | TTP58 | -80.80 | -74.64 | 0.00   | -55.12 | -42.12 | -28.15 |
| YBADJ | TTP58 | -13.33 | 1.90   | 17.07  | 31.72  | 45.41  | 56.99  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP59 | 69.86  | 78.18  | 84.12  | 87.51  | 88.24  | 86.29  |
| YBADJ | TTP59 | 81.72  | 75.04  | 0.00   | 54.46  | 40.96  | 26.52  |

|       |       |        |         |         |         |         |        |
|-------|-------|--------|---------|---------|---------|---------|--------|
| YBADJ | TTP59 | 11.28  | -4.31   | -19.77  | -34.62  | -48.42  | -60.03 |
| YBADJ | TTP59 | -69.86 | -78.18  | -84.12  | -87.51  | -88.24  | -86.29 |
| YBADJ | TTP59 | -81.72 | -75.04  | 0.00    | -54.46  | -40.96  | -26.52 |
| YBADJ | TTP59 | -11.28 | 4.31    | 19.77   | 34.62   | 48.42   | 60.03  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP60 | 72.76  | 80.97   | 86.72   | 89.83   | 90.22   | 87.86  |
| YBADJ | TTP60 | 82.84  | 75.67   | 0.00    | 54.08   | 40.08   | 25.17  |
| YBADJ | TTP60 | 9.50   | -6.46   | -22.23  | -37.32  | -51.28  | -62.95 |
| YBADJ | TTP60 | -72.76 | -80.97  | -86.72  | -89.83  | -90.22  | -87.86 |
| YBADJ | TTP60 | -82.84 | -75.67  | 0.00    | -54.08  | -40.08  | -25.17 |
| YBADJ | TTP60 | -9.50  | 6.46    | 22.23   | 37.32   | 51.28   | 62.95  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP61 | 76.02  | 84.10   | 89.63   | 92.43   | 92.42   | 89.61  |
| YBADJ | TTP61 | 84.07  | 0.00    | 0.00    | 53.63   | 39.07   | 23.63  |
| YBADJ | TTP61 | 7.48   | -8.91   | -25.02  | -40.37  | -54.50  | -66.24 |
| YBADJ | TTP61 | -76.02 | -84.10  | -89.63  | -92.43  | -92.42  | -89.61 |
| YBADJ | TTP61 | -84.07 | 0.00    | 0.00    | -53.63  | -39.07  | -23.63 |
| YBADJ | TTP61 | -7.48  | 8.91    | 25.02   | 40.37   | 54.50   | 66.24  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP62 | 78.88  | 86.81   | 92.10   | 94.60   | 94.22   | 90.97  |
| YBADJ | TTP62 | 84.96  | 0.00    | 0.00    | 53.00   | 37.95   | 22.06  |
| YBADJ | TTP62 | 5.50   | -11.23  | -27.62  | -43.16  | -57.40  | -69.17 |
| YBADJ | TTP62 | -78.88 | -86.81  | -92.10  | -94.60  | -94.22  | -90.97 |
| YBADJ | TTP62 | -84.96 | 0.00    | 0.00    | -53.00  | -37.95  | -22.06 |
| YBADJ | TTP62 | -5.50  | 11.23   | 27.62   | 43.16   | 57.40   | 69.17  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP63 | 81.88  | 89.67   | 94.74   | 96.93   | 96.17   | 92.49  |
| YBADJ | TTP63 | 86.00  | 0.00    | 0.00    | 52.47   | 36.91   | 20.54  |
| YBADJ | TTP63 | 3.55   | -13.56  | -30.25  | -46.02  | -60.40  | -72.21 |
| YBADJ | TTP63 | -81.88 | -89.67  | -94.74  | -96.93  | -96.17  | -92.49 |
| YBADJ | TTP63 | -86.00 | 0.00    | 0.00    | -52.47  | -36.91  | -20.54 |
| YBADJ | TTP63 | -3.55  | 13.56   | 30.25   | 46.02   | 60.40   | 72.21  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP64 | 84.95  | 92.56   | 97.36   | 99.19   | 98.02   | 93.86  |
| YBADJ | TTP64 | 86.85  | 0.00    | 0.00    | 51.68   | 35.60   | 18.74  |
| YBADJ | TTP64 | 1.32   | -16.15  | -33.12  | -49.09  | -63.56  | -75.38 |
| YBADJ | TTP64 | -84.95 | -92.56  | -97.36  | -99.19  | -98.02  | -93.86 |
| YBADJ | TTP64 | -86.85 | 0.00    | 0.00    | -51.68  | -35.60  | -18.74 |
| YBADJ | TTP64 | -1.32  | 16.15   | 33.12   | 49.09   | 63.56   | 75.38  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP65 | 87.93  | 95.38   | 99.93   | 101.44  | 99.88   | 95.28  |
| YBADJ | TTP65 | 87.78  | 0.00    | 0.00    | 51.03   | 34.44   | 17.12  |
| YBADJ | TTP65 | -0.73  | -18.55  | -35.81  | -51.98  | -66.58  | -78.42 |
| YBADJ | TTP65 | -87.93 | -95.38  | -99.93  | -101.44 | -99.88  | -95.28 |
| YBADJ | TTP65 | -87.78 | 0.00    | 0.00    | -51.03  | -34.44  | -17.12 |
| YBADJ | TTP65 | 0.73   | 18.55   | 35.81   | 51.98   | 66.58   | 78.42  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP66 | 90.82  | 98.16   | 102.52  | 103.76  | 101.85  | 96.84  |
| YBADJ | TTP66 | 88.89  | 0.00    | 0.00    | 50.64   | 33.56   | 15.76  |
| YBADJ | TTP66 | -2.51  | -20.71  | -38.28  | -54.69  | -69.43  | -81.34 |
| YBADJ | TTP66 | -90.82 | -98.16  | -102.52 | -103.76 | -101.85 | -96.84 |
| YBADJ | TTP66 | -88.89 | 0.00    | 0.00    | -50.64  | -33.56  | -15.76 |
| YBADJ | TTP66 | 2.51   | 20.71   | 38.28   | 54.69   | 69.43   | 81.34  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP67 | 93.79  | 100.95  | 105.04  | 105.94  | 103.62  | 98.16  |
| YBADJ | TTP67 | 89.71  | 0.00    | 0.00    | 49.88   | 32.29   | 14.03  |
| YBADJ | TTP67 | -4.66  | -23.20  | -41.04  | -57.63  | -72.48  | -84.39 |
| YBADJ | TTP67 | -93.79 | -100.95 | -105.04 | -105.94 | -103.62 | -98.16 |
| YBADJ | TTP67 | -89.71 | 0.00    | 0.00    | -49.88  | -32.29  | -14.03 |
| YBADJ | TTP67 | 4.66   | 23.20   | 41.04   | 57.63   | 72.48   | 84.39  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP68 | 96.64  | 103.65  | 107.51  | 108.10  | 105.41  | 99.51  |
| YBADJ | TTP68 | 90.60  | 0.00    | 0.00    | 49.25   | 31.18   | 12.46  |
| YBADJ | TTP68 | -6.63  | -25.52  | -43.63  | -60.42  | -75.37  | -87.31 |
| YBADJ | TTP68 | -96.64 | -103.65 | -107.51 | -108.10 | -105.41 | -99.51 |
| YBADJ | TTP68 | -90.60 | 0.00    | 0.00    | -49.25  | -31.18  | -12.46 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TTP68 | 6.63    | 25.52   | 43.63   | 60.42   | 75.37   | 87.31   |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP69 | 99.63   | 106.51  | 110.14  | 110.43  | 107.36  | 101.03  |
| YBADJ | TTP69 | 91.63   | 0.00    | 0.00    | 48.72   | 30.14   | 10.94   |
| YBADJ | TTP69 | -8.58   | -27.84  | -46.26  | -63.28  | -78.37  | -90.35  |
| YBADJ | TTP69 | -99.63  | -106.51 | -110.14 | -110.43 | -107.36 | -101.03 |
| YBADJ | TTP69 | -91.63  | 0.00    | 0.00    | -48.72  | -30.14  | -10.94  |
| YBADJ | TTP69 | 8.58    | 27.84   | 46.26   | 63.28   | 78.37   | 90.35   |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP70 | 102.71  | 109.40  | 112.76  | 112.70  | 109.21  | 102.40  |
| YBADJ | TTP70 | 92.48   | 0.00    | 0.00    | 47.93   | 28.82   | 9.14    |
| YBADJ | TTP70 | -10.81  | -30.43  | -49.13  | -66.34  | -81.53  | -93.52  |
| YBADJ | TTP70 | -102.71 | -109.40 | -112.76 | -112.70 | -109.21 | -102.40 |
| YBADJ | TTP70 | -92.48  | 0.00    | 0.00    | -47.93  | -28.82  | -9.14   |
| YBADJ | TTP70 | 10.81   | 30.43   | 49.13   | 66.34   | 81.53   | 93.52   |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP71 | 105.69  | 112.21  | 115.33  | 114.95  | 111.07  | 103.82  |
| YBADJ | TTP71 | 93.41   | 0.00    | 0.00    | 47.28   | 27.67   | 7.52    |
| YBADJ | TTP71 | -12.86  | -32.84  | -51.83  | -69.24  | -84.55  | -96.56  |
| YBADJ | TTP71 | -105.69 | -112.21 | -115.33 | -114.95 | -111.07 | -103.82 |
| YBADJ | TTP71 | -93.41  | 0.00    | 0.00    | -47.28  | -27.67  | -7.52   |
| YBADJ | TTP71 | 12.86   | 32.84   | 51.83   | 69.24   | 84.55   | 96.56   |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP72 | 108.59  | 115.01  | 117.93  | 117.27  | 113.05  | 105.39  |
| YBADJ | TTP72 | 94.53   | 0.00    | 0.00    | 46.89   | 26.78   | 6.16    |
| YBADJ | TTP72 | -14.65  | -35.01  | -54.30  | -71.95  | -87.41  | -99.49  |
| YBADJ | TTP72 | -108.59 | -115.01 | -117.93 | -117.27 | -113.05 | -105.39 |
| YBADJ | TTP72 | -94.53  | 0.00    | 0.00    | -46.89  | -26.78  | -6.16   |
| YBADJ | TTP72 | 14.65   | 35.01   | 54.30   | 71.95   | 87.41   | 99.49   |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP73 | 111.68  | 117.94  | 120.61  | 119.61  | 114.99  | 106.86  |
| YBADJ | TTP73 | 95.49   | 0.00    | 0.00    | 46.22   | 25.58   | 4.47    |
| YBADJ | TTP73 | -16.77  | -37.51  | -57.10  | -74.96  | -90.54  | -102.65 |
| YBADJ | TTP73 | -111.68 | -117.94 | -120.61 | -119.61 | -114.99 | -106.86 |
| YBADJ | TTP73 | -95.49  | 0.00    | 0.00    | -46.22  | -25.58  | -4.47   |
| YBADJ | TTP73 | 16.77   | 37.51   | 57.10   | 74.96   | 90.54   | 102.65  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP74 | 114.55  | 120.65  | 123.08  | 121.78  | 116.78  | 108.22  |
| YBADJ | TTP74 | 96.38   | 0.00    | 0.00    | 45.60   | 24.47   | 2.91    |
| YBADJ | TTP74 | -18.75  | -39.83  | -59.70  | -77.76  | -93.45  | -105.58 |
| YBADJ | TTP74 | -114.55 | -120.65 | -123.08 | -121.78 | -116.78 | -108.22 |
| YBADJ | TTP74 | -96.38  | 0.00    | 0.00    | -45.60  | -24.47  | -2.91   |
| YBADJ | TTP74 | 18.75   | 39.83   | 59.70   | 77.76   | 93.45   | 105.58  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP75 | 117.54  | 123.51  | 125.72  | 124.11  | 118.73  | 109.74  |
| YBADJ | TTP75 | 97.42   | 0.00    | 0.00    | 45.07   | 23.43   | 1.39    |
| YBADJ | TTP75 | -20.70  | -42.16  | -62.33  | -80.61  | -96.44  | -108.62 |
| YBADJ | TTP75 | -117.54 | -123.51 | -125.72 | -124.11 | -118.73 | -109.74 |
| YBADJ | TTP75 | -97.42  | 0.00    | 0.00    | -45.07  | -23.43  | -1.39   |
| YBADJ | TTP75 | 20.70   | 42.16   | 62.33   | 80.61   | 96.44   | 108.62  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP76 | 120.62  | 126.40  | 128.34  | 126.38  | 120.58  | 111.12  |
| YBADJ | TTP76 | 98.28   | 0.00    | 0.00    | 44.28   | 22.12   | -0.41   |
| YBADJ | TTP76 | -22.92  | -44.74  | -65.20  | -83.67  | -99.61  | -111.79 |
| YBADJ | TTP76 | -120.62 | -126.40 | -128.34 | -126.38 | -120.58 | -111.12 |
| YBADJ | TTP76 | -98.28  | 0.00    | 0.00    | -44.28  | -22.12  | 0.41    |
| YBADJ | TTP76 | 22.92   | 44.74   | 65.20   | 83.67   | 99.61   | 111.79  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP77 | 123.59  | 129.21  | 130.91  | 128.63  | 122.44  | 112.53  |
| YBADJ | TTP77 | 99.20   | 0.00    | 0.00    | 43.63   | 20.96   | -2.04   |
| YBADJ | TTP77 | -24.97  | -47.15  | -67.89  | -86.57  | -102.62 | -114.83 |
| YBADJ | TTP77 | -123.59 | -129.21 | -130.91 | -128.63 | -122.44 | -112.53 |
| YBADJ | TTP77 | -99.20  | 0.00    | 0.00    | -43.63  | -20.96  | 2.04    |
| YBADJ | TTP77 | 24.97   | 47.15   | 67.89   | 86.57   | 102.62  | 114.83  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP78 | 126.49  | 132.00  | 133.50  | 130.95  | 124.42  | 114.10  |



[illegible]

\*\* Auto-Generated Plotfiles  
PLOTFILE PERIOD ALL "15639 Ops HRA.AD\PE00GALL.PLT" 31  
SUMMFILE "15639 Ops HRA.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 133 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

|         |      |                                                          |    |
|---------|------|----------------------------------------------------------|----|
| SO W320 | 1417 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1418 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1419 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1420 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1421 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1422 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1423 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1424 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1425 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1426 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1427 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1428 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1429 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1430 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1431 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1432 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1433 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1434 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1435 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1436 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1437 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1438 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1439 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1440 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1441 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1442 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1443 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1444 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1445 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1446 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1447 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1448 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1449 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1450 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1451 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1452 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1453 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1454 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1455 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1456 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1457 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1458 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1459 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1460 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1461 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1462 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |

[illegible]

|         |      |                                                           |      |
|---------|------|-----------------------------------------------------------|------|
| SO W320 | 1575 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1576 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1577 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1578 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1579 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1580 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1581 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1582 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1583 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1584 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1585 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1586 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1587 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1588 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1589 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1590 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1591 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1634 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1635 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| ME W186 | 8704 | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50 |
| ME W187 | 8704 | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |      |

\*\*\*\*\*  
 \*\*\* SETUP Finishes Successfully \*\*\*  
 \*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 09:17:47

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 1003 Source(s),  
 for Total of 1 Urban Area(s):
- Urban Population = 62651.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* 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: DPM

\*\*Model Calculates PERIOD Averages Only

\*\*This Run Includes: 1003 Source(s); 1 Source Group(s); and 119 Receptor(s)

with: 177 POINT(s), including  
 0 POINTCAP(s) and 0 POINTHOR(s)



and: 826 VOLUME source(s)  
 and: 0 AREA type source(s)  
 and: 0 LINE source(s)  
 and: 0 RLINE/RLINEXT source(s)  
 and: 0 OPENPIT source(s)  
 and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
 and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 21112

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
 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) = 30.00 ; 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 = 6.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15639 Ops

HRA.err

\*\*File for Summary of Results: 15639 Ops

HRA.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT SOURCE DATA \*\*\*

| SOURCE | DIAMETER | ID       | STACK PART. | NUMBER EXISTS | EMISSION SOURCE | RATE HOR | BASE ELEV. | STACK HEIGHT | STACK TEMP. | STACK EXIT VEL. |       |
|--------|----------|----------|-------------|---------------|-----------------|----------|------------|--------------|-------------|-----------------|-------|
|        |          | (METERS) |             |               | (GRAMS/SEC)     | SCALAR   | (METERS)   | (METERS)     | (DEG.K)     | (M/SEC)         |       |
|        |          |          | CATS.       |               |                 | VARY BY  |            |              |             |                 |       |
| IDLE1  |          | 0        |             |               | 0.84776E-06     | 658435.2 | 4184223.5  | 13.3         | 3.84        | 366.00          | 51.71 |
| 0.10   | YES      |          | YES         | NO            |                 |          |            |              |             |                 |       |
| IDLE2  |          | 0        |             |               | 0.84776E-06     | 658439.2 | 4184223.7  | 13.3         | 3.84        | 366.00          | 51.71 |
| 0.10   | YES      |          | YES         | NO            |                 |          |            |              |             |                 |       |
| IDLE3  |          | 0        |             |               | 0.84776E-06     | 658443.0 | 4184223.7  | 13.3         | 3.84        | 366.00          | 51.71 |
| 0.10   | YES      |          | YES         | NO            |                 |          |            |              |             |                 |       |

|        |     |     |             |          |           |      |      |        |       |
|--------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| IDLE4  |     | 0   | 0.84776E-06 | 658447.0 | 4184223.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE5  |     | 0   | 0.84776E-06 | 658451.1 | 4184223.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE6  |     | 0   | 0.84776E-06 | 658458.9 | 4184224.1 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE7  |     | 0   | 0.84776E-06 | 658462.9 | 4184224.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE8  |     | 0   | 0.84776E-06 | 658466.7 | 4184224.4 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE9  |     | 0   | 0.84776E-06 | 658470.7 | 4184224.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE10 |     | 0   | 0.84776E-06 | 658474.8 | 4184224.6 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE11 |     | 0   | 0.84776E-06 | 658478.8 | 4184224.8 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE12 |     | 0   | 0.84776E-06 | 658482.7 | 4184224.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE13 |     | 0   | 0.84776E-06 | 658506.3 | 4184225.4 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE14 |     | 0   | 0.84776E-06 | 658510.3 | 4184225.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE15 |     | 0   | 0.84776E-06 | 658514.3 | 4184225.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE16 |     | 0   | 0.84776E-06 | 658490.4 | 4184224.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE17 |     | 0   | 0.84776E-06 | 658494.4 | 4184225.1 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE18 |     | 0   | 0.84776E-06 | 658498.2 | 4184225.2 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE19 |     | 0   | 0.84776E-06 | 658502.2 | 4184225.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE20 |     | 0   | 0.84776E-06 | 658538.1 | 4184226.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE21 |     | 0   | 0.84776E-06 | 658542.0 | 4184226.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE22 |     | 0   | 0.84776E-06 | 658546.0 | 4184226.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE23 |     | 0   | 0.84776E-06 | 658522.2 | 4184225.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE24 |     | 0   | 0.84776E-06 | 658526.2 | 4184226.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE25 |     | 0   | 0.84776E-06 | 658530.0 | 4184226.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE26 |     | 0   | 0.84776E-06 | 658534.0 | 4184226.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE27 |     | 0   | 0.84776E-06 | 658569.6 | 4184227.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE28 |     | 0   | 0.84776E-06 | 658573.5 | 4184227.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE29 |     | 0   | 0.84776E-06 | 658577.5 | 4184227.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE30 |     | 0   | 0.84776E-06 | 658553.6 | 4184226.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE31 |     | 0   | 0.84776E-06 | 658557.7 | 4184226.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE32 |     | 0   | 0.84776E-06 | 658561.5 | 4184226.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE33 |     | 0   | 0.84776E-06 | 658565.5 | 4184227.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE34 |     | 0   | 0.84776E-06 | 658601.3 | 4184227.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE35 |     | 0   | 0.84776E-06 | 658605.3 | 4184228.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE36 |     | 0   | 0.84776E-06 | 658609.3 | 4184228.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |

```

*** AERMOD - VERSION 23132 ***
Spreckels\15639 Ops HRA\1 ***
*** AERMET - VERSION 21112 ***
***
*** C:\Users\Michael Tirohn\Desktop\HRAs\15639
09/20/24
***

```

PAGE 3

| NUMBER EMISSION RATE |        |             |       |          |           | BASE     | STACK    | STACK   | STACK     |
|----------------------|--------|-------------|-------|----------|-----------|----------|----------|---------|-----------|
| SOURCE               | STACK  | BLDG        | URBAN | CAP/     | EMIS RATE |          |          |         |           |
|                      | PART.  | (GRAMS/SEC) | X     | Y        |           | ELEV.    | HEIGHT   | TEMP.   | EXIT VEL. |
| DIAMETER             | EXISTS | SOURCE      | HOR   | SCALAR   |           |          |          |         |           |
| ID                   | CATS.  |             |       | (METERS) | (METERS)  | (METERS) | (METERS) | (DEG.K) | (M/SEC)   |
| (METERS)             |        |             |       | VARY BY  |           |          |          |         |           |

|        |     |     |              |          |           |      |      |        |       |
|--------|-----|-----|--------------|----------|-----------|------|------|--------|-------|
| IDLE41 |     | 0   | 0.847776E-06 | 658633.0 | 4184228.7 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| IDLE42 |     | 0   | 0.847776E-06 | 658636.9 | 4184228.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| IDLE43 |     | 0   | 0.847776E-06 | 658617.0 | 4184228.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| IDLE44 |     | 0   | 0.847776E-06 | 658621.1 | 4184228.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| IDLE45 |     | 0   | 0.847776E-06 | 658624.9 | 4184228.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| IDLE46 |     | 0   | 0.847776E-06 | 658628.9 | 4184228.7 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO           |          |           |      |      |        |       |
| TRU1   |     | 0   | 0.36762E-04  | 658435.1 | 4184226.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU2   |     | 0   | 0.36762E-04  | 658439.1 | 4184226.2 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU3   |     | 0   | 0.36762E-04  | 658443.0 | 4184226.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU4   |     | 0   | 0.36762E-04  | 658446.9 | 4184226.4 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU5   |     | 0   | 0.36762E-04  | 658450.8 | 4184226.5 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU6   |     | 0   | 0.36762E-04  | 658458.8 | 4184226.8 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU7   |     | 0   | 0.36762E-04  | 658462.8 | 4184226.8 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU8   |     | 0   | 0.36762E-04  | 658466.7 | 4184226.9 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU9   |     | 0   | 0.36762E-04  | 658470.5 | 4184227.0 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU10  |     | 0   | 0.36762E-04  | 658474.5 | 4184227.1 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU11  |     | 0   | 0.36762E-04  | 658478.5 | 4184227.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU12  |     | 0   | 0.36762E-04  | 658482.6 | 4184227.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |
| TRU13  |     | 0   | 0.36762E-04  | 658490.3 | 4184227.7 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO           |          |           |      |      |        |       |

```
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:17:47
```

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT SOURCE DATA \*\*\*

|          |        |                      |             |          |          |           |          |         |           |
|----------|--------|----------------------|-------------|----------|----------|-----------|----------|---------|-----------|
|          |        | NUMBER EMISSION RATE |             |          |          | BASE      | STACK    | STACK   | STACK     |
|          |        | STACK                | BLDG        | URBAN    | CAP/     | EMIS RATE |          |         |           |
| SOURCE   |        | PART.                | (GRAMS/SEC) | X        | Y        | ELEV.     | HEIGHT   | TEMP.   | EXIT VEL. |
| DIAMETER | EXISTS | SOURCE               | HOR         | SCALAR   |          |           |          |         |           |
| ID       | CATS.  |                      |             | (METERS) | (METERS) | (METERS)  | (METERS) | (DEG.K) | (M/SEC)   |
| (METERS) |        |                      |             | VARY BY  |          |           |          |         |           |

|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| TRU35 |     | 0   | 0.36762E-04 | 658589.2 | 4184230.2 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU36 |     | 0   | 0.36762E-04 | 658593.1 | 4184230.3 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |

|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| TRU37 |     | 0   | 0.36762E-04 | 658597.0 | 4184230.4 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU38 |     | 0   | 0.36762E-04 | 658601.0 | 4184230.5 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU39 |     | 0   | 0.36762E-04 | 658605.0 | 4184230.7 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU40 |     | 0   | 0.36762E-04 | 658609.0 | 4184230.7 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU41 |     | 0   | 0.36762E-04 | 658616.8 | 4184231.1 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU42 |     | 0   | 0.36762E-04 | 658620.8 | 4184231.1 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU43 |     | 0   | 0.36762E-04 | 658624.7 | 4184231.2 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU44 |     | 0   | 0.36762E-04 | 658628.5 | 4184231.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU45 |     | 0   | 0.36762E-04 | 658632.5 | 4184231.4 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU46 |     | 0   | 0.36762E-04 | 658636.5 | 4184231.6 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TTP1  |     | 0   | 0.15661E-06 | 658419.2 | 4184197.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP2  |     | 0   | 0.15661E-06 | 658422.1 | 4184197.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP3  |     | 0   | 0.15661E-06 | 658425.2 | 4184197.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP4  |     | 0   | 0.15661E-06 | 658428.4 | 4184197.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP5  |     | 0   | 0.15661E-06 | 658431.4 | 4184197.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP6  |     | 0   | 0.15661E-06 | 658434.3 | 4184197.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP7  |     | 0   | 0.15661E-06 | 658437.2 | 4184197.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP8  |     | 0   | 0.15661E-06 | 658440.2 | 4184198.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP9  |     | 0   | 0.15661E-06 | 658443.2 | 4184198.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP10 |     | 0   | 0.15661E-06 | 658446.4 | 4184198.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP11 |     | 0   | 0.15661E-06 | 658449.4 | 4184198.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP12 |     | 0   | 0.15661E-06 | 658452.3 | 4184198.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP13 |     | 0   | 0.15661E-06 | 658455.6 | 4184198.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP14 |     | 0   | 0.15661E-06 | 658458.6 | 4184198.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP15 |     | 0   | 0.15661E-06 | 658461.6 | 4184198.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP16 |     | 0   | 0.15661E-06 | 658464.8 | 4184198.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP17 |     | 0   | 0.15661E-06 | 658467.8 | 4184198.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP18 |     | 0   | 0.15661E-06 | 658470.7 | 4184198.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP19 |     | 0   | 0.15661E-06 | 658474.0 | 4184199.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP20 |     | 0   | 0.15661E-06 | 658476.9 | 4184199.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP21 |     | 0   | 0.15661E-06 | 658480.0 | 4184199.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP22 |     | 0   | 0.15661E-06 | 658483.2 | 4184199.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP23 |     | 0   | 0.15661E-06 | 658486.2 | 4184199.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |



```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***

```

\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ   U\*

| NUMBER EMISSION RATE |             |                  |          |          | BASE      | STACK    | STACK    | STACK   |           |
|----------------------|-------------|------------------|----------|----------|-----------|----------|----------|---------|-----------|
| SOURCE               | STACK PART. | BLDG (GRAMS/SEC) | URBAN X  | CAP/ Y   | EMIS RATE | ELEV.    | HEIGHT   | TEMP.   | EXIT VEL. |
| DIAMETER             | EXISTS      | SOURCE HOR       | SCALAR   |          |           |          |          |         |           |
| ID                   | CATS.       |                  | (METERS) | (METERS) | (METERS)  | (METERS) | (METERS) | (DEG.K) | (M/SEC)   |
| (METERS)             |             |                  | VARY BY  |          |           |          |          |         |           |

|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| TTP69 |     | 0   | 0.15661E-06 | 658625.9 | 4184202.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |

TTP70 0 0.15661E-06 658629.0 4184203.1 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP71 0 0.15661E-06 658632.1 4184203.3 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP72 0 0.15661E-06 658635.0 4184203.1 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP73 0 0.15661E-06 658638.2 4184203.3 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP74 0 0.15661E-06 658641.1 4184203.4 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP75 0 0.15661E-06 658644.1 4184203.4 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP76 0 0.15661E-06 658647.3 4184203.6 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP77 0 0.15661E-06 658650.4 4184203.7 13.3 3.84 366.00 51.71
0.10 YES YES NO
TTP78 0 0.15661E-06 658653.3 4184203.6 13.4 3.84 366.00 51.71
0.10 YES YES NO
TTP79 0 0.15661E-06 658656.1 4184203.7 13.4 3.84 366.00 51.71
0.10 YES YES NO
TTP80 0 0.15661E-06 658659.0 4184203.9 13.4 3.84 366.00 51.71
0.10 YES YES NO
TTP81 0 0.15661E-06 658662.0 4184203.9 13.4 3.84 366.00 51.71
0.10 YES YES NO
TTP82 0 0.15661E-06 658665.2 4184204.1 13.4 3.84 366.00 51.71
0.10 YES YES NO
TTP83 0 0.15661E-06 658668.3 4184204.2 13.4 3.84 366.00 51.71
0.10 YES YES NO
STCK1 0 0.10710E-01 658699.8 4184281.4 13.6 3.55 728.55 54.78
0.13 YES YES NO HRDOW7
STCK2 0 0.10710E-01 658700.2 4184271.3 13.6 3.84 798.16 160.56
0.17 YES YES NO HRDOW7
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24
\*\*\* AERMET - VERSION 21112 \*\*\*
\*\*\* 09:17:47

PAGE 7
\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*
\*\*\* VOLUME SOURCE DATA \*\*\*
SOURCE URBAN EMISSION RATE AIRCRAFT BASE RELEASE INIT. INIT.
SOURCE PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
SOURCE SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS) BY
L0000001 0 0.21280E-05 658420.1 4184210.0 13.2 3.49 4.00 3.25
YES NO
L0000002 0 0.21280E-05 658428.7 4184210.2 13.3 3.49 4.00 3.25
YES NO
L0000003 0 0.21280E-05 658437.3 4184210.4 13.3 3.49 4.00 3.25
YES NO
L0000004 0 0.21280E-05 658445.9 4184210.6 13.3 3.49 4.00 3.25
YES NO
L0000005 0 0.21280E-05 658454.5 4184210.7 13.3 3.49 4.00 3.25
YES NO
L0000006 0 0.21280E-05 658463.0 4184210.9 13.3 3.49 4.00 3.25
YES NO
L0000007 0 0.21280E-05 658471.6 4184211.1 13.3 3.49 4.00 3.25
YES NO



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000008 | 0 | 0.21280E-05 | 658480.2 | 4184211.2 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000009 | 0 | 0.21280E-05 | 658488.8 | 4184211.4 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000010 | 0 | 0.21280E-05 | 658497.4 | 4184211.6 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000011 | 0 | 0.21280E-05 | 658506.0 | 4184211.8 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000012 | 0 | 0.21280E-05 | 658514.6 | 4184211.9 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000013 | 0 | 0.21280E-05 | 658523.2 | 4184212.1 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000014 | 0 | 0.21280E-05 | 658531.8 | 4184212.3 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000015 | 0 | 0.21280E-05 | 658540.3 | 4184212.4 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000016 | 0 | 0.21280E-05 | 658548.9 | 4184212.6 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000017 | 0 | 0.21280E-05 | 658557.5 | 4184212.8 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000018 | 0 | 0.21280E-05 | 658566.1 | 4184213.0 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000019 | 0 | 0.21280E-05 | 658574.7 | 4184213.1 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000020 | 0 | 0.21280E-05 | 658583.3 | 4184213.3 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000021 | 0 | 0.21280E-05 | 658591.9 | 4184213.5 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000022 | 0 | 0.21280E-05 | 658600.5 | 4184213.7 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000023 | 0 | 0.21280E-05 | 658609.0 | 4184213.9 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000024 | 0 | 0.21280E-05 | 658617.6 | 4184214.1 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000025 | 0 | 0.21280E-05 | 658626.2 | 4184214.4 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000026 | 0 | 0.21280E-05 | 658634.8 | 4184214.6 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000027 | 0 | 0.21280E-05 | 658643.4 | 4184214.9 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000028 | 0 | 0.21280E-05 | 658652.0 | 4184215.1 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000029 | 0 | 0.21280E-05 | 658660.6 | 4184215.3 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000030 | 0 | 0.21280E-05 | 658669.2 | 4184215.6 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000031 | 0 | 0.21280E-05 | 658677.7 | 4184215.8 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000032 | 0 | 0.21280E-05 | 658686.3 | 4184216.1 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000033 | 0 | 0.21280E-05 | 658694.9 | 4184216.6 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000034 | 0 | 0.21280E-05 | 658703.5 | 4184217.1 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000035 | 0 | 0.21280E-05 | 658712.1 | 4184217.3 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000036 | 0 | 0.21280E-05 | 658720.6 | 4184217.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000037 | 0 | 0.21280E-05 | 658729.2 | 4184218.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000038 | 0 | 0.21280E-05 | 658737.7 | 4184219.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000039 | 0 | 0.21280E-05 | 658746.1 | 4184221.5 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000040 | 0 | 0.21280E-05 | 658754.5 | 4184223.2 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | SCALAR<br>VARY<br>CATS. | NUMBER      | EMISSION RATE | AIRCRAFT  |          | BASE     | RELEASE  | INIT.    | INIT. |
|------------------------------------|-------------------------|-------------|---------------|-----------|----------|----------|----------|----------|-------|
|                                    |                         | URBAN       | EMISSION RATE | X         | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
|                                    |                         | PART.       | (GRAMS/SEC)   |           |          |          |          |          |       |
|                                    |                         | BY          |               | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |       |
| L0000041                           | 0                       | 0.57900E-06 | 658774.4      | 4184216.3 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000042                           | 0                       | 0.57900E-06 | 658776.5      | 4184202.5 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000043                           | 0                       | 0.57900E-06 | 658777.6      | 4184188.5 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000044                           | 0                       | 0.57900E-06 | 658777.6      | 4184174.5 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000045                           | 0                       | 0.57900E-06 | 658777.6      | 4184160.5 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000046                           | 0                       | 0.57900E-06 | 658777.2      | 4184146.6 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000047                           | 0                       | 0.57900E-06 | 658776.1      | 4184132.6 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000048                           | 0                       | 0.57900E-06 | 658775.1      | 4184118.6 | 13.1     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000049                           | 0                       | 0.57900E-06 | 658774.1      | 4184104.7 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000050                           | 0                       | 0.57900E-06 | 658771.3      | 4184091.0 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000051                           | 0                       | 0.57900E-06 | 658767.6      | 4184077.5 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000052                           | 0                       | 0.57900E-06 | 658764.0      | 4184064.0 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000053                           | 0                       | 0.57900E-06 | 658760.4      | 4184050.4 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000054                           | 0                       | 0.57900E-06 | 658756.8      | 4184036.9 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000055                           | 0                       | 0.57900E-06 | 658752.3      | 4184023.7 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000056                           | 0                       | 0.57900E-06 | 658747.6      | 4184010.5 | 12.8     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000057                           | 0                       | 0.57900E-06 | 658742.8      | 4183997.3 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000058                           | 0                       | 0.57900E-06 | 658736.8      | 4183984.7 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000059                           | 0                       | 0.57900E-06 | 658730.8      | 4183972.0 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000060                           | 0                       | 0.57900E-06 | 658724.8      | 4183959.4 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000061                           | 0                       | 0.57900E-06 | 658717.8      | 4183947.3 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000062                           | 0                       | 0.57900E-06 | 658710.0      | 4183935.7 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |
| L0000063                           | 0                       | 0.57900E-06 | 658702.2      | 4183924.1 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES                                |                         | NO          |               |           |          |          |          |          |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000064 | 0 | 0.57900E-06 | 658694.4 | 4183912.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000065 | 0 | 0.57900E-06 | 658686.6 | 4183900.8 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000066 | 0 | 0.57900E-06 | 658678.8 | 4183889.1 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000067 | 0 | 0.57900E-06 | 658671.0 | 4183877.5 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000068 | 0 | 0.57900E-06 | 658663.3 | 4183865.9 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000069 | 0 | 0.57900E-06 | 658655.5 | 4183854.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000070 | 0 | 0.57900E-06 | 658647.7 | 4183842.6 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000071 | 0 | 0.57900E-06 | 658639.9 | 4183831.0 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000072 | 0 | 0.57900E-06 | 658632.1 | 4183819.4 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000073 | 0 | 0.57900E-06 | 658624.1 | 4183807.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000074 | 0 | 0.57900E-06 | 658616.0 | 4183796.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000075 | 0 | 0.57900E-06 | 658608.0 | 4183784.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000076 | 0 | 0.57900E-06 | 658600.0 | 4183773.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000077 | 0 | 0.57900E-06 | 658592.0 | 4183762.0 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000078 | 0 | 0.57900E-06 | 658584.0 | 4183750.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000079 | 0 | 0.57900E-06 | 658575.9 | 4183739.0 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000080 | 0 | 0.57900E-06 | 658567.9 | 4183727.6 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:17:47

PAGE 9

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|-------------|----------|-----------|----------|----------|----------|-------|
| SOURCE   | URBAN  | EMISSION    | RATE     | AIRCRAFT  |          |          |          |       |
| ID       | PART.  | (GRAMS/SEC) |          | X         | ELEV.    | HEIGHT   | SY       | SZ    |
| (METERS) | SCALAR | VARY        |          | Y         | (METERS) | (METERS) | (METERS) |       |
|          | CATS.  | BY          |          | (METERS)  | (METERS) | (METERS) | (METERS) |       |
| L0000081 | 0      | 0.57900E-06 | 658559.7 | 4183716.2 | 12.5     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |
| L0000082 | 0      | 0.57900E-06 | 658551.6 | 4183704.8 | 12.2     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |
| L0000083 | 0      | 0.57900E-06 | 658543.4 | 4183693.5 | 12.2     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |
| L0000084 | 0      | 0.57900E-06 | 658535.2 | 4183682.1 | 12.3     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |
| L0000085 | 0      | 0.57900E-06 | 658527.1 | 4183670.7 | 12.1     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |
| L0000086 | 0      | 0.57900E-06 | 658518.9 | 4183659.3 | 12.1     | 3.49     | 6.51     | 3.25  |
| YES      |        | NO          |          |           |          |          |          |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000087 | 0 | 0.57900E-06 | 658510.7 | 4183648.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000088 | 0 | 0.57900E-06 | 658502.6 | 4183636.6 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000089 | 0 | 0.57900E-06 | 658494.4 | 4183625.2 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000090 | 0 | 0.57900E-06 | 658486.3 | 4183613.8 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000091 | 0 | 0.30730E-06 | 658475.8 | 4183597.1 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000092 | 0 | 0.30730E-06 | 658468.0 | 4183585.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000093 | 0 | 0.30730E-06 | 658460.1 | 4183573.9 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000094 | 0 | 0.30730E-06 | 658452.3 | 4183562.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000095 | 0 | 0.30730E-06 | 658444.5 | 4183550.6 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000096 | 0 | 0.30730E-06 | 658435.6 | 4183539.9 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000097 | 0 | 0.30730E-06 | 658425.9 | 4183529.8 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000098 | 0 | 0.30730E-06 | 658416.2 | 4183519.7 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000099 | 0 | 0.30730E-06 | 658406.4 | 4183509.7 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000100 | 0 | 0.30730E-06 | 658394.9 | 4183501.8 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000101 | 0 | 0.30730E-06 | 658383.1 | 4183494.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000102 | 0 | 0.30730E-06 | 658371.3 | 4183486.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000103 | 0 | 0.30730E-06 | 658359.4 | 4183479.3 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000104 | 0 | 0.30730E-06 | 658347.5 | 4183472.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000105 | 0 | 0.30730E-06 | 658334.4 | 4183467.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000106 | 0 | 0.30730E-06 | 658321.3 | 4183462.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000107 | 0 | 0.30730E-06 | 658308.0 | 4183457.8 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000108 | 0 | 0.30730E-06 | 658294.4 | 4183454.5 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000109 | 0 | 0.30730E-06 | 658280.8 | 4183451.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000110 | 0 | 0.30730E-06 | 658267.1 | 4183449.1 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000111 | 0 | 0.30730E-06 | 658253.1 | 4183448.7 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000112 | 0 | 0.30730E-06 | 658239.1 | 4183448.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000113 | 0 | 0.30730E-06 | 658225.1 | 4183447.8 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000114 | 0 | 0.30730E-06 | 658211.1 | 4183447.4 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000115 | 0 | 0.30730E-06 | 658197.1 | 4183447.0 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000116 | 0 | 0.30730E-06 | 658183.1 | 4183446.6 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000117 | 0 | 0.30730E-06 | 658169.1 | 4183446.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000118 | 0 | 0.30730E-06 | 658155.1 | 4183445.8 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000119 | 0 | 0.30730E-06 | 658141.1 | 4183445.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000143 | 0 | 0.30730E-06 | 657814.6 | 4183490.6 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000144 | 0 | 0.30730E-06 | 657801.9 | 4183496.6 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000145 | 0 | 0.30730E-06 | 657789.2 | 4183502.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000146 | 0 | 0.30730E-06 | 657776.5 | 4183508.5 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000147 | 0 | 0.30730E-06 | 657763.9 | 4183514.4 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000148 | 0 | 0.30730E-06 | 657751.2 | 4183520.3 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000149 | 0 | 0.30730E-06 | 657738.5 | 4183526.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000150 | 0 | 0.30730E-06 | 657725.8 | 4183532.2 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000151 | 0 | 0.30730E-06 | 657713.2 | 4183538.1 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000152 | 0 | 0.30730E-06 | 657700.5 | 4183544.1 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000153 | 0 | 0.30730E-06 | 657687.8 | 4183550.0 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000154 | 0 | 0.30730E-06 | 657675.1 | 4183556.0 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000155 | 0 | 0.30730E-06 | 657662.6 | 4183562.2 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000156 | 0 | 0.30730E-06 | 657650.0 | 4183568.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000157 | 0 | 0.30730E-06 | 657637.4 | 4183574.5 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000158 | 0 | 0.30730E-06 | 657624.8 | 4183580.6 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000159 | 0 | 0.30730E-06 | 657612.3 | 4183586.7 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000160 | 0 | 0.30730E-06 | 657599.7 | 4183592.9 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |



\*\*\* AERMOD - VERSION 23132 \*\*\*  
Spreckels\15639 Ops HRA\1 \*\*\*  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
09/20/24

\*\*\*09:17:47

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   |   | NUMBER      | EMISSION RATE | BASE      |          | RELEASE  | INIT.    | INIT.    |
|----------|---|-------------|---------------|-----------|----------|----------|----------|----------|
| SOURCE   |   | URBAN       | EMISSION RATE | AIRCRAFT  |          | HEIGHT   |          |          |
| ID       |   | PART.       | (GRAMS/SEC)   | X         | Y        | (METERS) | SY       | SZ       |
| (METERS) |   | SCALAR VARY |               | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          |   | CATS.       | BY            |           |          |          |          |          |
| -----    |   |             |               |           |          |          |          |          |
| -----    |   |             |               |           |          |          |          |          |
| L0000161 | 0 | 0.30730E-06 | 657587.1      | 4183599.0 | 11.5     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000162 | 0 | 0.30730E-06 | 657574.5      | 4183605.2 | 11.5     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000163 | 0 | 0.30730E-06 | 657561.9      | 4183611.3 | 11.4     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000164 | 0 | 0.30730E-06 | 657549.4      | 4183617.5 | 11.5     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000165 | 0 | 0.30730E-06 | 657536.8      | 4183623.6 | 11.5     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000166 | 0 | 0.30730E-06 | 657524.2 | 4183629.8 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000167 | 0 | 0.30730E-06 | 657511.6 | 4183635.9 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000168 | 0 | 0.30730E-06 | 657499.0 | 4183642.1 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000169 | 0 | 0.30730E-06 | 657486.5 | 4183648.2 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000170 | 0 | 0.30730E-06 | 657473.9 | 4183654.4 | 11.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000171 | 0 | 0.30730E-06 | 657461.3 | 4183660.5 | 11.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000172 | 0 | 0.30730E-06 | 657448.7 | 4183666.6 | 11.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000173 | 0 | 0.30730E-06 | 657436.2 | 4183672.8 | 11.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000174 | 0 | 0.30730E-06 | 657423.6 | 4183678.9 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000175 | 0 | 0.30730E-06 | 657411.0 | 4183685.1 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000176 | 0 | 0.30730E-06 | 657398.4 | 4183691.2 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000177 | 0 | 0.30730E-06 | 657385.8 | 4183697.4 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000178 | 0 | 0.30730E-06 | 657373.3 | 4183703.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000179 | 0 | 0.30730E-06 | 657360.6 | 4183709.4 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000180 | 0 | 0.30730E-06 | 657347.8 | 4183715.1 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000181 | 0 | 0.30730E-06 | 657335.0 | 4183720.9 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000182 | 0 | 0.30730E-06 | 657322.2 | 4183726.6 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000183 | 0 | 0.30730E-06 | 657309.5 | 4183732.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000184 | 0 | 0.30730E-06 | 657296.9 | 4183738.6 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000185 | 0 | 0.30730E-06 | 657283.3 | 4183741.6 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000186 | 0 | 0.30730E-06 | 657269.6 | 4183744.6 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000187 | 0 | 0.30730E-06 | 657255.9 | 4183747.7 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000188 | 0 | 0.30730E-06 | 657242.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000189 | 0 | 0.30730E-06 | 657228.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000190 | 0 | 0.30730E-06 | 657214.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000191 | 0 | 0.30730E-06 | 657200.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000192 | 0 | 0.30730E-06 | 657186.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000193 | 0 | 0.30730E-06 | 657172.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000194 | 0 | 0.30730E-06 | 657158.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000195 | 0 | 0.30730E-06 | 657144.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000196 | 0 | 0.30730E-06 | 657130.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000197 | 0 | 0.30730E-06 | 657116.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000198 | 0 | 0.30730E-06 | 657102.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

PAGE 12

\*\*\* VOLUME SOURCE DATA \*\*\*

-----

- - - - -



```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ   U\*

[illegible]

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000241 | 0 | 0.30730E-06 | 657110.2 | 4183159.9 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000242 | 0 | 0.30730E-06 | 657110.7 | 4183145.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000243 | 0 | 0.30730E-06 | 657111.2 | 4183131.9 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000244 | 0 | 0.30730E-06 | 657111.7 | 4183117.9 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000245 | 0 | 0.30730E-06 | 657112.1 | 4183103.9 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000246 | 0 | 0.30730E-06 | 657112.6 | 4183089.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000247 | 0 | 0.30730E-06 | 657113.1 | 4183076.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000248 | 0 | 0.30730E-06 | 657113.6 | 4183062.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000249 | 0 | 0.74930E-07 | 658467.9 | 4183601.9 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000250 | 0 | 0.74930E-07 | 658456.6 | 4183610.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000251 | 0 | 0.74930E-07 | 658445.3 | 4183618.4 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000252 | 0 | 0.74930E-07 | 658434.0 | 4183626.6 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000253 | 0 | 0.74930E-07 | 658422.6 | 4183634.9 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000254 | 0 | 0.74930E-07 | 658411.3 | 4183643.1 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000255 | 0 | 0.74930E-07 | 658400.0 | 4183651.4 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000256 | 0 | 0.74930E-07 | 658388.7 | 4183659.6 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000257 | 0 | 0.74930E-07 | 658377.4 | 4183667.9 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000258 | 0 | 0.74930E-07 | 658366.1 | 4183676.1 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000259 | 0 | 0.74930E-07 | 658354.7 | 4183684.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000260 | 0 | 0.74930E-07 | 658343.4 | 4183692.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000261 | 0 | 0.74930E-07 | 658332.1 | 4183700.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000262 | 0 | 0.74930E-07 | 658320.8 | 4183709.1 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000263 | 0 | 0.74930E-07 | 658309.5 | 4183717.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000264 | 0 | 0.74930E-07 | 658298.2 | 4183725.6 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000265 | 0 | 0.74930E-07 | 658286.9 | 4183733.8 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000266 | 0 | 0.74930E-07 | 658275.5 | 4183742.0 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000267 | 0 | 0.74930E-07 | 658264.2 | 4183750.3 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000268 | 0 | 0.74930E-07 | 658252.9 | 4183758.5 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000269 | 0 | 0.74930E-07 | 658241.6 | 4183766.8 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000270 | 0 | 0.74930E-07 | 658230.3 | 4183775.0 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000271 | 0 | 0.74930E-07 | 658219.0 | 4183783.3 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000272 | 0 | 0.74930E-07 | 658207.6 | 4183791.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000273 | 0 | 0.74930E-07 | 658196.3 | 4183799.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000274 | 0 | 0.74930E-07 | 658185.0 | 4183808.0 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000275 | 0 | 0.74930E-07 | 658173.7 | 4183816.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000276 | 0 | 0.74930E-07 | 658162.4 | 4183824.5 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000277 | 0 | 0.74930E-07 | 658151.1 | 4183832.7 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000278 | 0 | 0.74930E-07 | 658139.8 | 4183841.0 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000279 | 0 | 0.74930E-07 | 658128.5 | 4183849.2 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000280 | 0 | 0.74930E-07 | 658117.1 | 4183857.5 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:17:47

PAGE 14

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR VARY<br>CATS. | EMISSION<br>EMISSION<br>(GRAMS/SEC)<br>BY | EMISSION RATE |           | AIRCRAFT<br>X                  Y | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ |  |  |  |  |  |
|------------------------------------|--------------------------------------------------|-------------------------------------------|---------------|-----------|----------------------------------|---------------------------|-------------------------------|-------------------------|-------------|--|--|--|--|--|
|                                    |                                                  |                                           |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
|                                    |                                                  |                                           |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
|                                    |                                                  |                                           |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000281                           | 0                                                | 0.74930E-07                               | 658105.8      | 4183865.7 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000282                           | 0                                                | 0.74930E-07                               | 658094.5      | 4183874.0 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000283                           | 0                                                | 0.74930E-07                               | 658083.2      | 4183882.2 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000284                           | 0                                                | 0.74930E-07                               | 658071.9      | 4183890.5 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000285                           | 0                                                | 0.74930E-07                               | 658060.6      | 4183898.7 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000286                           | 0                                                | 0.74930E-07                               | 658049.2      | 4183906.9 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000287                           | 0                                                | 0.74930E-07                               | 658037.9      | 4183915.1 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000288                           | 0                                                | 0.74930E-07                               | 658026.5      | 4183923.3 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000289                           | 0                                                | 0.74930E-07                               | 658015.1      | 4183931.4 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000290                           | 0                                                | 0.74930E-07                               | 658003.8      | 4183939.6 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000291                           | 0                                                | 0.74930E-07                               | 657992.4      | 4183947.8 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000292                           | 0                                                | 0.74930E-07                               | 657981.0      | 4183956.0 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000293                           | 0                                                | 0.74930E-07                               | 657969.7      | 4183964.1 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000294                           | 0                                                | 0.74930E-07                               | 657958.3      | 4183972.3 |                                  | 11.4                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000295                           | 0                                                | 0.74930E-07                               | 657947.8      | 4183981.6 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000296                           | 0                                                | 0.74930E-07                               | 657937.4      | 4183990.9 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000297                           | 0                                                | 0.74930E-07                               | 657926.9      | 4184000.2 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000298                           | 0                                                | 0.74930E-07                               | 657916.8      | 4184009.9 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000299                           | 0                                                | 0.74930E-07                               | 657907.8      | 4184020.6 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |
| L0000300                           | 0                                                | 0.74930E-07                               | 657898.8      | 4184031.3 |                                  | 11.5                      | 3.49                          | 6.51                    | 3.25        |  |  |  |  |  |
| YES                                |                                                  | NO                                        |               |           |                                  |                           |                               |                         |             |  |  |  |  |  |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000301 | 0 | 0.74930E-07 | 657889.8 | 4184042.0 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000302 | 0 | 0.74930E-07 | 657880.2 | 4184052.3 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000303 | 0 | 0.74930E-07 | 657870.7 | 4184062.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000304 | 0 | 0.74930E-07 | 657861.1 | 4184072.7 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000305 | 0 | 0.74930E-07 | 657850.3 | 4184081.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000306 | 0 | 0.74930E-07 | 657839.2 | 4184090.0 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000307 | 0 | 0.74930E-07 | 657828.0 | 4184098.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000308 | 0 | 0.74930E-07 | 657816.9 | 4184107.0 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000309 | 0 | 0.74930E-07 | 657805.7 | 4184115.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000310 | 0 | 0.74930E-07 | 657794.2 | 4184123.4 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000311 | 0 | 0.74930E-07 | 657782.7 | 4184131.4 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000312 | 0 | 0.74930E-07 | 657771.2 | 4184139.4 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000313 | 0 | 0.74930E-07 | 657759.8 | 4184147.4 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000314 | 0 | 0.74930E-07 | 657748.3 | 4184155.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000315 | 0 | 0.74930E-07 | 657736.8 | 4184163.5 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000316 | 0 | 0.74930E-07 | 657725.3 | 4184171.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000317 | 0 | 0.74930E-07 | 657713.9 | 4184179.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000318 | 0 | 0.74930E-07 | 657702.4 | 4184187.6 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000319 | 0 | 0.74930E-07 | 657690.9 | 4184195.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000320 | 0 | 0.74930E-07 | 657679.5 | 4184203.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1 \*\*\*

09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

09:17:47

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   |   | NUMBER      | EMISSION RATE | BASE      |          | RELEASE  | INIT.    | INIT.    |
|----------|---|-------------|---------------|-----------|----------|----------|----------|----------|
| SOURCE   |   | URBAN       | EMISSION RATE | AIRCRAFT  |          | HEIGHT   | SY       | SZ       |
| ID       |   | PART.       | (GRAMS/SEC)   | X         | Y        | ELEV.    | (METERS) | (METERS) |
| (METERS) |   | SCALAR VARY | CATS.         | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          |   | BY          |               |           |          |          |          |          |
| -----    |   |             |               |           |          |          |          |          |
| -----    |   |             |               |           |          |          |          |          |
| L0000321 | 0 | 0.74930E-07 | 657668.0      | 4184211.6 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000322 | 0 | 0.74930E-07 | 657656.5      | 4184219.7 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |
| L0000323 | 0 | 0.74930E-07 | 657645.0      | 4184227.7 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES      |   | NO          |               |           |          |          |          |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000324 | 0 | 0.74930E-07 | 657633.6 | 4184235.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000325 | 0 | 0.74930E-07 | 657622.1 | 4184243.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000326 | 0 | 0.74930E-07 | 657610.6 | 4184251.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000327 | 0 | 0.74930E-07 | 657599.2 | 4184259.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000328 | 0 | 0.74930E-07 | 657587.7 | 4184267.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000329 | 0 | 0.74930E-07 | 657576.3 | 4184276.0 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000330 | 0 | 0.74930E-07 | 657564.9 | 4184284.1 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000331 | 0 | 0.74930E-07 | 657553.5 | 4184292.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000332 | 0 | 0.74930E-07 | 657542.1 | 4184300.3 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000333 | 0 | 0.74930E-07 | 657530.6 | 4184308.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000334 | 0 | 0.74930E-07 | 657519.2 | 4184316.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000335 | 0 | 0.74930E-07 | 657507.8 | 4184324.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000336 | 0 | 0.74930E-07 | 657496.4 | 4184332.7 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000337 | 0 | 0.74930E-07 | 657485.0 | 4184340.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000338 | 0 | 0.74930E-07 | 657473.6 | 4184348.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000339 | 0 | 0.74930E-07 | 657462.2 | 4184357.0 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000340 | 0 | 0.74930E-07 | 657450.7 | 4184365.1 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000341 | 0 | 0.74930E-07 | 657439.3 | 4184373.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000342 | 0 | 0.74930E-07 | 657427.9 | 4184381.3 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000343 | 0 | 0.74930E-07 | 657416.5 | 4184389.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000344 | 0 | 0.74930E-07 | 657405.1 | 4184397.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000345 | 0 | 0.74930E-07 | 657393.7 | 4184405.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000346 | 0 | 0.74930E-07 | 657382.2 | 4184413.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000347 | 0 | 0.74930E-07 | 657370.8 | 4184421.9 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000348 | 0 | 0.74930E-07 | 657359.4 | 4184430.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000349 | 0 | 0.74930E-07 | 657348.0 | 4184438.1 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000350 | 0 | 0.74930E-07 | 657336.6 | 4184446.2 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000351 | 0 | 0.74930E-07 | 657325.2 | 4184454.3 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000352 | 0 | 0.74930E-07 | 657313.8 | 4184462.4 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000353 | 0 | 0.74930E-07 | 657302.5 | 4184470.7 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000354 | 0 | 0.74930E-07 | 657291.2 | 4184478.9 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000355 | 0 | 0.74930E-07 | 657279.9 | 4184487.2 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000356 | 0 | 0.74930E-07 | 657268.6 | 4184495.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000357 | 0 | 0.74930E-07 | 657257.3 | 4184503.7 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000358 | 0 | 0.74930E-07 | 657246.0 | 4184512.0 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000359 | 0 | 0.74930E-07 | 657234.7 | 4184520.2 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000360 | 0 | 0.74930E-07 | 657223.4 | 4184528.5 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*      \*\*\*      09:17:47

PAGE 16

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

| *** VOLUME SOURCE DATA ***         |                                                  |                                                |          |           |                           |                               |                         |             |
|------------------------------------|--------------------------------------------------|------------------------------------------------|----------|-----------|---------------------------|-------------------------------|-------------------------|-------------|
| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR VARY<br>CATS. | EMISSION<br>EMISSION RATE<br>(GRAMS/SEC)<br>BY | AIRCRAFT |           | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ |
|                                    |                                                  |                                                | X        | Y         |                           |                               |                         |             |
|                                    |                                                  |                                                | (METERS) | (METERS)  |                           |                               |                         |             |
|                                    |                                                  |                                                |          |           |                           |                               |                         |             |
| L0000361                           | 0                                                | 0.74930E-07                                    | 657212.1 | 4184536.8 | 11.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000362                           | 0                                                | 0.74930E-07                                    | 657200.7 | 4184545.0 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000363                           | 0                                                | 0.74930E-07                                    | 657189.4 | 4184553.3 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000364                           | 0                                                | 0.74930E-07                                    | 657178.1 | 4184561.5 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000365                           | 0                                                | 0.74930E-07                                    | 657166.8 | 4184569.8 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000366                           | 0                                                | 0.74930E-07                                    | 657155.5 | 4184578.1 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000367                           | 0                                                | 0.74930E-07                                    | 657144.2 | 4184586.3 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000368                           | 0                                                | 0.74930E-07                                    | 657132.9 | 4184594.6 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000369                           | 0                                                | 0.74930E-07                                    | 657121.6 | 4184602.8 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000370                           | 0                                                | 0.74930E-07                                    | 657110.1 | 4184610.9 | 11.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000371                           | 0                                                | 0.74930E-07                                    | 657098.7 | 4184618.9 | 11.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000372                           | 0                                                | 0.74930E-07                                    | 657087.2 | 4184626.9 | 11.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000373                           | 0                                                | 0.74930E-07                                    | 657074.4 | 4184632.5 | 11.0                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000374                           | 0                                                | 0.74930E-07                                    | 657061.6 | 4184638.2 | 11.0                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000375                           | 0                                                | 0.19370E-06                                    | 658485.0 | 4183591.0 | 12.6                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000376                           | 0                                                | 0.19370E-06                                    | 658496.4 | 4183582.9 | 12.7                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000377                           | 0                                                | 0.19370E-06                                    | 658507.9 | 4183574.9 | 12.8                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000378                           | 0                                                | 0.19370E-06                                    | 658519.3 | 4183566.8 | 12.8                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |
| L0000379                           | 0                                                | 0.19370E-06                                    | 658530.7 | 4183558.7 | 12.9                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                             |          |           |                           |                               |                         |             |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000380 | 0 | 0.19370E-06 | 658542.2 | 4183550.6 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000381 | 0 | 0.19370E-06 | 658553.6 | 4183542.5 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000382 | 0 | 0.19370E-06 | 658565.0 | 4183534.5 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000383 | 0 | 0.19370E-06 | 658576.5 | 4183526.4 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000384 | 0 | 0.19370E-06 | 658587.9 | 4183518.3 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000385 | 0 | 0.19370E-06 | 658599.3 | 4183510.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000386 | 0 | 0.19370E-06 | 658610.8 | 4183502.1 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000387 | 0 | 0.19370E-06 | 658622.2 | 4183494.0 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000388 | 0 | 0.19370E-06 | 658633.5 | 4183485.8 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000389 | 0 | 0.19370E-06 | 658644.9 | 4183477.6 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000390 | 0 | 0.19370E-06 | 658656.2 | 4183469.5 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000391 | 0 | 0.19370E-06 | 658667.6 | 4183461.3 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000392 | 0 | 0.19370E-06 | 658679.0 | 4183453.1 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000393 | 0 | 0.19370E-06 | 658690.3 | 4183444.9 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000394 | 0 | 0.19370E-06 | 658701.7 | 4183436.7 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000395 | 0 | 0.19370E-06 | 658713.0 | 4183428.5 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000396 | 0 | 0.19370E-06 | 658724.4 | 4183420.4 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000397 | 0 | 0.19370E-06 | 658735.7 | 4183412.1 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000398 | 0 | 0.19370E-06 | 658746.9 | 4183403.7 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000399 | 0 | 0.19370E-06 | 658758.1 | 4183395.3 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000400 | 0 | 0.19370E-06 | 658768.8 | 4183386.3 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

09:17:47

PAGE 17

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | SCALAR | NUMBER |      | EMISSION RATE |  | AIRCRAFT |          | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|--------|------|---------------|--|----------|----------|----------|----------|----------|-------|
|          |        | URBAN  |      | EMISSION RATE |  | X        |          | ELEV.    | HEIGHT   | SY       | SZ    |
|          |        | PART.  | VARY | (GRAMS/SEC)   |  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |
| ID       |        | CATS.  |      | BY            |  |          |          |          |          |          |       |
| (METERS) |        |        |      |               |  |          |          |          |          |          |       |
| -----    |        |        |      |               |  |          |          |          |          |          |       |
| -----    |        |        |      |               |  |          |          |          |          |          |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000401 | 0 | 0.19370E-06 | 658779.5 | 4183377.2 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000402 | 0 | 0.19370E-06 | 658790.1 | 4183368.1 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|                 |   |                   |          |           |      |      |      |      |
|-----------------|---|-------------------|----------|-----------|------|------|------|------|
| L0000403<br>YES | 0 | 0.19370E-06<br>NO | 658800.7 | 4183359.0 | 13.7 | 3.49 | 6.51 | 3.25 |
| L0000404<br>YES | 0 | 0.19370E-06<br>NO | 658811.3 | 4183349.9 | 13.8 | 3.49 | 6.51 | 3.25 |
| L0000405<br>YES | 0 | 0.19370E-06<br>NO | 658822.3 | 4183341.1 | 13.7 | 3.49 | 6.51 | 3.25 |
| L0000406<br>YES | 0 | 0.19370E-06<br>NO | 658833.3 | 4183332.6 | 13.8 | 3.49 | 6.51 | 3.25 |
| L0000407<br>YES | 0 | 0.19370E-06<br>NO | 658844.4 | 4183324.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| L0000408<br>YES | 0 | 0.19370E-06<br>NO | 658855.5 | 4183315.4 | 14.0 | 3.49 | 6.51 | 3.25 |
| L0000409<br>YES | 0 | 0.19370E-06<br>NO | 658866.6 | 4183306.9 | 14.0 | 3.49 | 6.51 | 3.25 |
| L0000410<br>YES | 0 | 0.19370E-06<br>NO | 658877.6 | 4183298.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| L0000411<br>YES | 0 | 0.19370E-06<br>NO | 658888.7 | 4183289.7 | 14.5 | 3.49 | 6.51 | 3.25 |
| L0000412<br>YES | 0 | 0.19370E-06<br>NO | 658899.8 | 4183281.2 | 15.2 | 3.49 | 6.51 | 3.25 |
| L0000413<br>YES | 0 | 0.19370E-06<br>NO | 658910.9 | 4183272.6 | 15.2 | 3.49 | 6.51 | 3.25 |
| L0000414<br>YES | 0 | 0.19370E-06<br>NO | 658922.0 | 4183264.1 | 15.2 | 3.49 | 6.51 | 3.25 |
| L0000415<br>YES | 0 | 0.19370E-06<br>NO | 658933.0 | 4183255.5 | 15.5 | 3.49 | 6.51 | 3.25 |
| L0000416<br>YES | 0 | 0.19370E-06<br>NO | 658944.1 | 4183246.9 | 15.4 | 3.49 | 6.51 | 3.25 |
| L0000417<br>YES | 0 | 0.19370E-06<br>NO | 658955.2 | 4183238.4 | 14.8 | 3.49 | 6.51 | 3.25 |
| L0000418<br>YES | 0 | 0.19370E-06<br>NO | 658966.3 | 4183229.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000419<br>YES | 0 | 0.19370E-06<br>NO | 658977.6 | 4183221.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000420<br>YES | 0 | 0.19370E-06<br>NO | 658989.0 | 4183213.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000421<br>YES | 0 | 0.19370E-06<br>NO | 659000.5 | 4183205.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000422<br>YES | 0 | 0.19370E-06<br>NO | 659012.0 | 4183197.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000423<br>YES | 0 | 0.19370E-06<br>NO | 659023.4 | 4183189.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000424<br>YES | 0 | 0.19370E-06<br>NO | 659034.9 | 4183181.4 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000425<br>YES | 0 | 0.19370E-06<br>NO | 659046.4 | 4183173.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000426<br>YES | 0 | 0.19370E-06<br>NO | 659057.8 | 4183165.3 | 14.1 | 3.49 | 6.51 | 3.25 |
| L0000427<br>YES | 0 | 0.19370E-06<br>NO | 659069.3 | 4183157.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000428<br>YES | 0 | 0.19370E-06<br>NO | 659080.7 | 4183149.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000429<br>YES | 0 | 0.19370E-06<br>NO | 659092.2 | 4183141.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000430<br>YES | 0 | 0.19370E-06<br>NO | 659103.7 | 4183133.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000431<br>YES | 0 | 0.19370E-06<br>NO | 659115.1 | 4183125.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| L0000432<br>YES | 0 | 0.19370E-06<br>NO | 659126.6 | 4183117.1 | 14.3 | 3.49 | 6.51 | 3.25 |
| L0000433<br>YES | 0 | 0.19370E-06<br>NO | 659138.1 | 4183109.1 | 14.3 | 3.49 | 6.51 | 3.25 |
| L0000434<br>YES | 0 | 0.19370E-06<br>NO | 659149.5 | 4183101.0 | 14.3 | 3.49 | 6.51 | 3.25 |
| L0000435<br>YES | 0 | 0.19370E-06<br>NO | 659161.0 | 4183093.0 | 14.3 | 3.49 | 6.51 | 3.25 |



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000436 | 0 | 0.19370E-06 | 659172.5 | 4183085.0 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000437 | 0 | 0.19370E-06 | 659183.9 | 4183076.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000438 | 0 | 0.19370E-06 | 659195.4 | 4183068.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000439 | 0 | 0.19370E-06 | 659206.9 | 4183060.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000440 | 0 | 0.19370E-06 | 659218.3 | 4183052.8 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*      09:17:47

PAGE 18

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   |   | NUMBER      | EMISSION    | RATE      | BASE     |          | RELEASE  | INIT.    | INIT.    |
|----------|---|-------------|-------------|-----------|----------|----------|----------|----------|----------|
| SOURCE   |   | URBAN       | EMISSION    | RATE      | AIRCRAFT |          |          |          |          |
| ID       |   | PART.       | (GRAMS/SEC) |           | X        | Y        | ELEV.    | HEIGHT   | SY       |
| (METERS) |   | SCALAR      | VARY        |           | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
|          |   | CATS.       | BY          |           |          |          |          |          |          |
| -----    |   |             |             |           |          |          |          |          |          |
| L0000441 | 0 | 0.19370E-06 | 659229.8    | 4183044.8 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000442 | 0 | 0.19370E-06 | 659241.2    | 4183036.7 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000443 | 0 | 0.19370E-06 | 659252.6    | 4183028.6 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000444 | 0 | 0.19370E-06 | 659264.0    | 4183020.4 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000445 | 0 | 0.19370E-06 | 659275.4    | 4183012.3 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000446 | 0 | 0.19370E-06 | 659286.8    | 4183004.2 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000447 | 0 | 0.19370E-06 | 659298.2    | 4182996.1 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000448 | 0 | 0.19370E-06 | 659309.6    | 4182987.9 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000449 | 0 | 0.19370E-06 | 659321.0    | 4182979.8 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000450 | 0 | 0.19370E-06 | 659332.4    | 4182971.7 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000451 | 0 | 0.19370E-06 | 659343.8    | 4182963.5 | 14.7     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000452 | 0 | 0.19370E-06 | 659355.2    | 4182955.4 | 14.7     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000453 | 0 | 0.19370E-06 | 659366.6    | 4182947.3 | 14.8     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000454 | 0 | 0.19370E-06 | 659378.0    | 4182939.2 | 14.9     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000455 | 0 | 0.19370E-06 | 659389.4    | 4182931.0 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000456 | 0 | 0.19370E-06 | 659400.8    | 4182922.9 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000457 | 0 | 0.19370E-06 | 659412.2    | 4182914.8 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000458 | 0 | 0.19370E-06 | 659423.6    | 4182906.7 | 15.2     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000459 | 0 | 0.19370E-06 | 659435.0 | 4182898.5 | 15.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000460 | 0 | 0.19370E-06 | 659446.4 | 4182890.4 | 15.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000461 | 0 | 0.19370E-06 | 659457.8 | 4182882.3 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000462 | 0 | 0.19370E-06 | 659469.2 | 4182874.1 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000463 | 0 | 0.19370E-06 | 659480.6 | 4182866.0 | 15.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000464 | 0 | 0.19370E-06 | 659492.0 | 4182857.9 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000465 | 0 | 0.19370E-06 | 659503.4 | 4182849.8 | 15.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000466 | 0 | 0.19370E-06 | 659514.8 | 4182841.6 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000467 | 0 | 0.19370E-06 | 659526.2 | 4182833.5 | 15.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000468 | 0 | 0.19370E-06 | 659537.6 | 4182825.4 | 14.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000469 | 0 | 0.19370E-06 | 659549.0 | 4182817.3 | 14.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000470 | 0 | 0.19370E-06 | 659560.4 | 4182809.1 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000471 | 0 | 0.19370E-06 | 659571.8 | 4182801.0 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000472 | 0 | 0.19370E-06 | 659583.2 | 4182792.9 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000473 | 0 | 0.19370E-06 | 659594.6 | 4182784.7 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000474 | 0 | 0.19370E-06 | 659606.0 | 4182776.6 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000475 | 0 | 0.19370E-06 | 659617.4 | 4182768.5 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000476 | 0 | 0.19370E-06 | 659628.8 | 4182760.4 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000477 | 0 | 0.19370E-06 | 659640.2 | 4182752.2 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000478 | 0 | 0.19370E-06 | 659651.6 | 4182744.1 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000479 | 0 | 0.19370E-06 | 659663.0 | 4182736.0 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000480 | 0 | 0.19370E-06 | 659674.4 | 4182727.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 19

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

|          |             | NUMBER      | EMISSION RATE |          |          | BASE     | RELEASE  | INIT. | INIT. |
|----------|-------------|-------------|---------------|----------|----------|----------|----------|-------|-------|
|          |             | URBAN       | EMISSION RATE | AIRCRAFT |          |          |          |       |       |
| SOURCE   | PART.       | (GRAMS/SEC) | X             | Y        | ELEV.    | HEIGHT   | SY       | SZ    |       |
| SOURCE   | SCALAR VARY |             |               |          |          |          |          |       |       |
| ID       | CATS.       |             | (METERS)      | (METERS) | (METERS) | (METERS) | (METERS) |       |       |
| (METERS) |             | BY          |               |          |          |          |          |       |       |
| ---      | ---         | ---         | ---           | ---      | ---      | ---      | ---      | ---   | ---   |
| ---      | ---         | ---         | ---           | ---      | ---      | ---      | ---      | ---   | ---   |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000481 | 0 | 0.19370E-06 | 659685.8 | 4182719.7 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000482 | 0 | 0.19370E-06 | 659697.2 | 4182711.6 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000483 | 0 | 0.19370E-06 | 659708.6 | 4182703.5 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000484 | 0 | 0.19370E-06 | 659720.0 | 4182695.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000485 | 0 | 0.19370E-06 | 659731.4 | 4182687.2 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000486 | 0 | 0.19370E-06 | 659742.8 | 4182679.1 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000487 | 0 | 0.19370E-06 | 659754.2 | 4182671.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000488 | 0 | 0.19370E-06 | 659765.6 | 4182662.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000489 | 0 | 0.19370E-06 | 659777.0 | 4182654.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000490 | 0 | 0.19370E-06 | 659788.4 | 4182646.6 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000491 | 0 | 0.19370E-06 | 659799.8 | 4182638.4 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000492 | 0 | 0.19370E-06 | 659811.2 | 4182630.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000493 | 0 | 0.19370E-06 | 659822.6 | 4182622.2 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000494 | 0 | 0.19370E-06 | 659834.0 | 4182614.1 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000495 | 0 | 0.19370E-06 | 659845.4 | 4182605.9 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000496 | 0 | 0.19370E-06 | 659856.8 | 4182597.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000497 | 0 | 0.19370E-06 | 659868.2 | 4182589.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000498 | 0 | 0.19370E-06 | 659879.6 | 4182581.5 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000499 | 0 | 0.19370E-06 | 659891.0 | 4182573.4 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000500 | 0 | 0.19370E-06 | 659902.4 | 4182565.3 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000501 | 0 | 0.19370E-06 | 659913.8 | 4182557.2 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000502 | 0 | 0.19370E-06 | 659925.2 | 4182549.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000503 | 0 | 0.19370E-06 | 659936.6 | 4182540.9 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000504 | 0 | 0.19370E-06 | 659948.0 | 4182532.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000505 | 0 | 0.19370E-06 | 659959.4 | 4182524.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000506 | 0 | 0.19370E-06 | 659970.8 | 4182516.5 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000507 | 0 | 0.19370E-06 | 659982.2 | 4182508.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000508 | 0 | 0.19370E-06 | 659993.6 | 4182500.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000509 | 0 | 0.19370E-06 | 660005.0 | 4182492.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000510 | 0 | 0.19370E-06 | 660016.4 | 4182484.0 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000511 | 0 | 0.19370E-06 | 660027.8 | 4182475.9 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000512 | 0 | 0.19370E-06 | 660039.2 | 4182467.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000513 | 0 | 0.19370E-06 | 660050.6 | 4182459.6 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000514 | 0 | 0.19370E-06 | 660062.0 | 4182451.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000515 | 0 | 0.19370E-06 | 660073.4 | 4182443.4 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000516 | 0 | 0.19370E-06 | 660084.8 | 4182435.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000517 | 0 | 0.19370E-06 | 660096.2 | 4182427.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000518 | 0 | 0.19370E-06 | 660107.6 | 4182419.0 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000519 | 0 | 0.19370E-06 | 660119.0 | 4182410.9 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000520 | 0 | 0.19370E-06 | 660130.4 | 4182402.7 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:17:47

PAGE 20  
\*\*\* MODELOPTs:      RegDFAULT   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR VARY<br>CATS. | EMISSION RATE<br>EMISSION RATE<br>(GRAMS/SEC)<br>BY | AIRCRAFT<br>X                      Y |           | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ |
|------------------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------|-----------|---------------------------|-------------------------------|-------------------------|-------------|
|                                    |                                                  |                                                     |                                      |           |                           |                               |                         |             |
|                                    |                                                  |                                                     |                                      |           |                           |                               |                         |             |
|                                    |                                                  |                                                     |                                      |           |                           |                               |                         |             |
| L0000521                           | 0                                                | 0.19370E-06                                         | 660141.8                             | 4182394.6 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000522                           | 0                                                | 0.19370E-06                                         | 660153.1                             | 4182386.5 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000523                           | 0                                                | 0.19370E-06                                         | 660164.5                             | 4182378.4 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000524                           | 0                                                | 0.19370E-06                                         | 660175.9                             | 4182370.2 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000525                           | 0                                                | 0.19370E-06                                         | 660187.3                             | 4182362.1 | 14.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000526                           | 0                                                | 0.19370E-06                                         | 660198.7                             | 4182354.0 | 14.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000527                           | 0                                                | 0.19370E-06                                         | 660210.1                             | 4182345.8 | 14.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000528                           | 0                                                | 0.19370E-06                                         | 660221.5                             | 4182337.7 | 14.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000529                           | 0                                                | 0.19370E-06                                         | 660232.9                             | 4182329.6 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000530                           | 0                                                | 0.19370E-06                                         | 660244.3                             | 4182321.5 | 14.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000531                           | 0                                                | 0.19370E-06                                         | 660255.7                             | 4182313.3 | 14.2                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000532                           | 0                                                | 0.19370E-06                                         | 660267.1                             | 4182305.2 | 14.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000533                           | 0                                                | 0.19370E-06                                         | 660278.5                             | 4182297.1 | 14.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000534                           | 0                                                | 0.19370E-06                                         | 660289.9                             | 4182289.0 | 14.0                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000535                           | 0                                                | 0.19370E-06                                         | 660301.3                             | 4182280.8 | 14.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000536                           | 0                                                | 0.19370E-06                                         | 660312.7                             | 4182272.7 | 14.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |
| L0000537                           | 0                                                | 0.19370E-06                                         | 660324.1                             | 4182264.6 | 14.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                                  |                                      |           |                           |                               |                         |             |

[illegible]

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000561 | 0 | 0.19370E-06 | 660342.5 | 4182550.6 | 14.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000562 | 0 | 0.19370E-06 | 660342.1 | 4182564.6 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000563 | 0 | 0.19370E-06 | 660341.8 | 4182578.6 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000564 | 0 | 0.19370E-06 | 660341.4 | 4182592.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000565 | 0 | 0.19370E-06 | 660341.1 | 4182606.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000566 | 0 | 0.19370E-06 | 660340.8 | 4182620.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000567 | 0 | 0.19370E-06 | 660340.4 | 4182634.5 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000568 | 0 | 0.19370E-06 | 660340.1 | 4182648.5 | 14.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000569 | 0 | 0.19370E-06 | 660339.7 | 4182662.5 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000570 | 0 | 0.23450E-06 | 658771.8 | 4184232.5 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000571 | 0 | 0.23450E-06 | 658770.3 | 4184246.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000572 | 0 | 0.23450E-06 | 658768.7 | 4184260.3 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000573 | 0 | 0.23450E-06 | 658765.0 | 4184273.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000574 | 0 | 0.23450E-06 | 658761.4 | 4184287.4 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000575 | 0 | 0.23450E-06 | 658757.7 | 4184300.9 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000576 | 0 | 0.23450E-06 | 658754.1 | 4184314.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000577 | 0 | 0.23450E-06 | 658748.7 | 4184327.3 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000578 | 0 | 0.23450E-06 | 658743.0 | 4184340.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000579 | 0 | 0.23450E-06 | 658737.4 | 4184352.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000580 | 0 | 0.23450E-06 | 658731.7 | 4184365.7 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000581 | 0 | 0.23450E-06 | 658726.0 | 4184378.5 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000582 | 0 | 0.23450E-06 | 658720.4 | 4184391.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000583 | 0 | 0.23450E-06 | 658714.6 | 4184404.0 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000584 | 0 | 0.23450E-06 | 658708.4 | 4184416.6 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000585 | 0 | 0.23450E-06 | 658702.2 | 4184429.2 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000586 | 0 | 0.23450E-06 | 658696.1 | 4184441.7 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000587 | 0 | 0.23450E-06 | 658689.9 | 4184454.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000588 | 0 | 0.23450E-06 | 658685.6 | 4184467.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000589 | 0 | 0.23450E-06 | 658681.4 | 4184481.0 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000590 | 0 | 0.23450E-06 | 658677.2 | 4184494.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000591 | 0 | 0.23450E-06 | 658673.1 | 4184507.7 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000592 | 0 | 0.23450E-06 | 658669.7 | 4184521.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000593 | 0 | 0.23450E-06 | 658666.8 | 4184535.0 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000594 | 0 | 0.23450E-06 | 658663.8 | 4184548.7 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000595 | 0 | 0.23450E-06 | 658660.8 | 4184562.3 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000596 | 0 | 0.23450E-06 | 658659.3 | 4184576.3 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000597 | 0 | 0.23450E-06 | 658658.0 | 4184590.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000598 | 0 | 0.23450E-06 | 658657.1 | 4184604.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000599 | 0 | 0.23450E-06 | 658656.2 | 4184618.1 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000600 | 0 | 0.23450E-06 | 658655.4 | 4184632.1 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      09:17:47

PAGE 22

\*\*\* MODELOPTs:      RegDFAULT   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR<br>CATS. | EMISSION RATE<br>EMISSION RATE<br>(GRAMS/SEC)<br>VARY<br>BY | AIRCRAFT<br>X                      Y |           | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ |
|------------------------------------|---------------------------------------------|-------------------------------------------------------------|--------------------------------------|-----------|---------------------------|-------------------------------|-------------------------|-------------|
|                                    |                                             |                                                             |                                      |           |                           |                               |                         |             |
|                                    |                                             |                                                             |                                      |           |                           |                               |                         |             |
|                                    |                                             |                                                             |                                      |           |                           |                               |                         |             |
| L0000601                           | 0                                           | 0.23450E-06                                                 | 658654.5                             | 4184646.1 | 12.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000602                           | 0                                           | 0.23450E-06                                                 | 658653.6                             | 4184660.1 | 12.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000603                           | 0                                           | 0.23450E-06                                                 | 658652.8                             | 4184674.0 | 12.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000604                           | 0                                           | 0.23450E-06                                                 | 658651.9                             | 4184688.0 | 12.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000605                           | 0                                           | 0.23450E-06                                                 | 658651.1                             | 4184702.0 | 12.3                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000606                           | 0                                           | 0.23450E-06                                                 | 658650.2                             | 4184715.9 | 12.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000607                           | 0                                           | 0.23450E-06                                                 | 658649.2                             | 4184729.9 | 12.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000608                           | 0                                           | 0.23450E-06                                                 | 658648.2                             | 4184743.9 | 12.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000609                           | 0                                           | 0.23450E-06                                                 | 658647.2                             | 4184757.8 | 12.6                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000610                           | 0                                           | 0.23450E-06                                                 | 658646.1                             | 4184771.8 | 12.7                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000611                           | 0                                           | 0.23450E-06                                                 | 658645.1                             | 4184785.8 | 12.7                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000612                           | 0                                           | 0.23450E-06                                                 | 658644.1                             | 4184799.7 | 12.7                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000613                           | 0                                           | 0.23450E-06                                                 | 658643.0                             | 4184813.7 | 12.8                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000614                           | 0                                           | 0.23450E-06                                                 | 658642.0                             | 4184827.7 | 13.0                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000615                           | 0                                           | 0.23450E-06                                                 | 658641.0                             | 4184841.6 | 13.0                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |
| L0000616                           | 0                                           | 0.23450E-06                                                 | 658640.0                             | 4184855.6 | 13.1                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                             | NO                                                          |                                      |           |                           |                               |                         |             |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000617 | 0 | 0.27440E-07 | 658632.6 | 4184871.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000618 | 0 | 0.27440E-07 | 658618.6 | 4184871.5 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000619 | 0 | 0.27440E-07 | 658604.6 | 4184871.1 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000620 | 0 | 0.27440E-07 | 658590.6 | 4184870.7 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000621 | 0 | 0.27440E-07 | 658576.6 | 4184870.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000622 | 0 | 0.27440E-07 | 658562.6 | 4184869.9 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000623 | 0 | 0.27440E-07 | 658548.6 | 4184869.5 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000624 | 0 | 0.27440E-07 | 658534.6 | 4184869.1 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000625 | 0 | 0.27440E-07 | 658520.6 | 4184868.7 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000626 | 0 | 0.27440E-07 | 658506.6 | 4184868.3 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000627 | 0 | 0.27440E-07 | 658492.6 | 4184867.9 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000628 | 0 | 0.27440E-07 | 658478.6 | 4184867.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000629 | 0 | 0.27440E-07 | 658464.6 | 4184867.1 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000630 | 0 | 0.27440E-07 | 658450.7 | 4184866.7 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000631 | 0 | 0.27440E-07 | 658436.7 | 4184866.3 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000632 | 0 | 0.27440E-07 | 658422.7 | 4184865.9 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000633 | 0 | 0.27440E-07 | 658408.7 | 4184865.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000634 | 0 | 0.27440E-07 | 658394.7 | 4184865.1 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000635 | 0 | 0.27440E-07 | 658380.7 | 4184864.7 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000636 | 0 | 0.27440E-07 | 658366.7 | 4184864.3 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000637 | 0 | 0.27440E-07 | 658352.7 | 4184863.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000638 | 0 | 0.27440E-07 | 658338.7 | 4184863.4 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000639 | 0 | 0.27440E-07 | 658324.7 | 4184863.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000640 | 0 | 0.27440E-07 | 658310.7 | 4184862.6 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 23

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| NUMBER   |             | EMISSION RATE |          | BASE     |          | RELEASE  | INIT.    | INIT. |
|----------|-------------|---------------|----------|----------|----------|----------|----------|-------|
| URBAN    |             | EMISSION RATE |          | AIRCRAFT |          |          |          |       |
| SOURCE   | PART.       | (GRAMS/SEC)   | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
| SOURCE   | SCALAR VARY |               |          |          |          |          |          |       |
| ID       | CATS.       |               | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |
| (METERS) |             | BY            |          |          |          |          |          |       |



- - - - -

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000641 | 0 | 0.27440E-07 | 658296.7 | 4184862.2 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000642 | 0 | 0.27440E-07 | 658282.7 | 4184861.8 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000643 | 0 | 0.27440E-07 | 658268.7 | 4184861.4 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000644 | 0 | 0.27440E-07 | 658254.7 | 4184861.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000645 | 0 | 0.27440E-07 | 658240.7 | 4184860.6 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000646 | 0 | 0.27440E-07 | 658226.7 | 4184860.2 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000647 | 0 | 0.27440E-07 | 658212.8 | 4184859.8 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000648 | 0 | 0.27440E-07 | 658198.8 | 4184859.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000649 | 0 | 0.27440E-07 | 658184.8 | 4184859.1 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000650 | 0 | 0.27440E-07 | 658170.8 | 4184858.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000651 | 0 | 0.27440E-07 | 658156.8 | 4184858.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000652 | 0 | 0.27440E-07 | 658142.8 | 4184858.1 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000653 | 0 | 0.27440E-07 | 658128.8 | 4184857.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000654 | 0 | 0.27440E-07 | 658114.8 | 4184857.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000655 | 0 | 0.27440E-07 | 658100.8 | 4184857.2 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000656 | 0 | 0.27440E-07 | 658086.8 | 4184856.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000657 | 0 | 0.27440E-07 | 658072.8 | 4184856.7 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000658 | 0 | 0.27440E-07 | 658058.8 | 4184856.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000659 | 0 | 0.27440E-07 | 658044.8 | 4184856.1 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000660 | 0 | 0.27440E-07 | 658030.8 | 4184855.9 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000661 | 0 | 0.27440E-07 | 658016.8 | 4184855.6 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000662 | 0 | 0.27440E-07 | 658002.8 | 4184855.3 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000663 | 0 | 0.27440E-07 | 657988.8 | 4184855.1 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000664 | 0 | 0.27440E-07 | 657974.8 | 4184854.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000665 | 0 | 0.27440E-07 | 657960.8 | 4184854.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000666 | 0 | 0.27440E-07 | 657946.8 | 4184854.3 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000667 | 0 | 0.27440E-07 | 657932.8 | 4184854.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000668 | 0 | 0.27440E-07 | 657918.8 | 4184853.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000669 | 0 | 0.27440E-07 | 657904.8 | 4184853.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000670 | 0 | 0.27440E-07 | 657890.8 | 4184853.2 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000671 | 0 | 0.27440E-07 | 657876.8 | 4184853.0 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000672 | 0 | 0.27440E-07 | 657862.8 | 4184852.7 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000673 | 0 | 0.27440E-07 | 657848.8 | 4184852.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000674 | 0 | 0.27440E-07 | 657834.8 | 4184852.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000675 | 0 | 0.27440E-07 | 657820.8 | 4184851.9 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000676 | 0 | 0.27440E-07 | 657806.8 | 4184851.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000677 | 0 | 0.27440E-07 | 657792.8 | 4184851.4 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000678 | 0 | 0.27440E-07 | 657778.8 | 4184851.1 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000679 | 0 | 0.27440E-07 | 657764.8 | 4184850.9 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000680 | 0 | 0.27440E-07 | 657750.8 | 4184850.6 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

Spreckels\15639 Ops HRA\1 \*\*\*

09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 24

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

| *** VOLUME SOURCE DATA *** |   |             |             |           |                   |      |          |          |
|----------------------------|---|-------------|-------------|-----------|-------------------|------|----------|----------|
| SOURCE                     |   | NUMBER      | EMISSION    | RATE      | BASE              |      | RELEASE  | INIT.    |
| SOURCE                     |   | URBAN       | EMISSION    | RATE      | AIRCRAFT          |      | HEIGHT   | INIT.    |
| ID                         |   | PART.       | (GRAMS/SEC) |           | X Y               |      | SY       | SZ       |
| SCALAR VARY                |   |             |             |           |                   |      |          |          |
| CATS.                      |   |             |             |           |                   |      |          |          |
| (METERS)                   |   |             |             |           | (METERS) (METERS) |      | (METERS) | (METERS) |
|                            |   |             |             |           |                   |      |          |          |
| L0000681                   | 0 | 0.27440E-07 | 657736.8    | 4184850.3 | 11.7              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000682                   | 0 | 0.27440E-07 | 657722.8    | 4184850.1 | 11.8              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000683                   | 0 | 0.27440E-07 | 657708.9    | 4184849.8 | 11.9              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000684                   | 0 | 0.27440E-07 | 657694.9    | 4184849.5 | 12.0              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000685                   | 0 | 0.27440E-07 | 657680.9    | 4184849.3 | 12.1              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000686                   | 0 | 0.27440E-07 | 657666.9    | 4184849.0 | 12.3              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000687                   | 0 | 0.27440E-07 | 657652.9    | 4184848.7 | 12.4              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000688                   | 0 | 0.27440E-07 | 657638.9    | 4184848.5 | 12.5              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000689                   | 0 | 0.27440E-07 | 657624.9    | 4184848.2 | 12.6              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000690                   | 0 | 0.27440E-07 | 657610.9    | 4184848.0 | 12.7              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000691                   | 0 | 0.27440E-07 | 657596.9    | 4184847.7 | 12.7              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000692                   | 0 | 0.27440E-07 | 657582.9    | 4184847.4 | 12.7              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000693                   | 0 | 0.27440E-07 | 657568.9    | 4184847.2 | 12.6              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000694                   | 0 | 0.27440E-07 | 657554.9    | 4184846.9 | 12.5              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |
| L0000695                   | 0 | 0.27440E-07 | 657540.9    | 4184846.6 | 12.5              | 3.49 | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |                   |      |          |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000696 | 0 | 0.27440E-07 | 657526.9 | 4184846.4 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000697 | 0 | 0.27440E-07 | 657512.9 | 4184846.1 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000698 | 0 | 0.27440E-07 | 657498.9 | 4184845.8 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000699 | 0 | 0.27440E-07 | 657484.9 | 4184845.6 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000700 | 0 | 0.27440E-07 | 657470.9 | 4184845.3 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000701 | 0 | 0.27440E-07 | 657456.9 | 4184845.0 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000702 | 0 | 0.27440E-07 | 657442.9 | 4184844.8 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000703 | 0 | 0.27440E-07 | 657428.9 | 4184844.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000704 | 0 | 0.27440E-07 | 657414.9 | 4184844.1 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000705 | 0 | 0.27440E-07 | 657400.9 | 4184843.8 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000706 | 0 | 0.27440E-07 | 657386.9 | 4184843.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000707 | 0 | 0.27440E-07 | 657372.9 | 4184843.2 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000708 | 0 | 0.27440E-07 | 657358.9 | 4184842.9 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000709 | 0 | 0.27440E-07 | 657344.9 | 4184842.5 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000710 | 0 | 0.27440E-07 | 657330.9 | 4184842.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000711 | 0 | 0.27440E-07 | 657316.9 | 4184841.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000712 | 0 | 0.27440E-07 | 657302.9 | 4184841.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000713 | 0 | 0.27440E-07 | 657288.9 | 4184841.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000714 | 0 | 0.27440E-07 | 657274.9 | 4184840.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000715 | 0 | 0.27440E-07 | 657260.9 | 4184840.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000716 | 0 | 0.27440E-07 | 657247.0 | 4184840.3 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000717 | 0 | 0.27440E-07 | 657233.0 | 4184839.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000718 | 0 | 0.27440E-07 | 657219.0 | 4184839.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000719 | 0 | 0.27440E-07 | 657205.0 | 4184839.3 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000720 | 0 | 0.27440E-07 | 657191.0 | 4184839.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
Spreckels\15639 Ops HRA\1 \*\*\*  
\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
09/20/24

\*\*\* 09:17:47

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE | NUMBER | EMISSION    | RATE |          | BASE     | RELEASE  | INIT.    | INIT.    |    |
|--------|--------|-------------|------|----------|----------|----------|----------|----------|----|
| SOURCE | URBAN  | EMISSION    | RATE | AIRCRAFT |          |          |          |          |    |
| ID     | PART.  | (GRAMS/SEC) |      | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ |
|        | SCALAR | VARY        |      |          |          |          |          |          |    |
|        | CATS.  |             |      | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |    |

| (METERS) |   | BY          |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
|          |   |             |          |           |      |      |      |      |
|          |   |             |          |           |      |      |      |      |
| L0000721 | 0 | 0.27440E-07 | 657177.0 | 4184838.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000722 | 0 | 0.27440E-07 | 657163.0 | 4184838.3 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000723 | 0 | 0.27440E-07 | 657149.0 | 4184838.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000724 | 0 | 0.27440E-07 | 657135.0 | 4184837.7 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000725 | 0 | 0.27440E-07 | 657121.0 | 4184837.4 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000726 | 0 | 0.27440E-07 | 657107.0 | 4184837.0 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000727 | 0 | 0.27440E-07 | 657093.0 | 4184836.5 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000728 | 0 | 0.27440E-07 | 657079.0 | 4184836.0 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000729 | 0 | 0.27440E-07 | 657065.0 | 4184835.6 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000730 | 0 | 0.27440E-07 | 657051.0 | 4184835.1 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000731 | 0 | 0.27440E-07 | 657037.0 | 4184834.6 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000732 | 0 | 0.19700E-06 | 658651.1 | 4184872.3 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000733 | 0 | 0.19700E-06 | 658665.1 | 4184872.6 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000734 | 0 | 0.19700E-06 | 658679.1 | 4184872.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000735 | 0 | 0.19700E-06 | 658693.1 | 4184873.1 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000736 | 0 | 0.19700E-06 | 658707.1 | 4184873.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000737 | 0 | 0.19700E-06 | 658721.1 | 4184873.7 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000738 | 0 | 0.19700E-06 | 658735.1 | 4184874.0 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000739 | 0 | 0.19700E-06 | 658749.1 | 4184874.3 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000740 | 0 | 0.19700E-06 | 658763.1 | 4184874.6 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000741 | 0 | 0.19700E-06 | 658777.1 | 4184874.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000742 | 0 | 0.19700E-06 | 658791.1 | 4184875.2 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000743 | 0 | 0.19700E-06 | 658805.1 | 4184875.5 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000744 | 0 | 0.19700E-06 | 658819.1 | 4184875.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000745 | 0 | 0.19700E-06 | 658833.1 | 4184876.1 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000746 | 0 | 0.19700E-06 | 658847.1 | 4184876.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000747 | 0 | 0.19700E-06 | 658861.1 | 4184876.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000748 | 0 | 0.19700E-06 | 658875.1 | 4184876.9 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000749 | 0 | 0.19700E-06 | 658889.1 | 4184877.2 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000750 | 0 | 0.19700E-06 | 658903.1 | 4184877.5 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000751 | 0 | 0.19700E-06 | 658917.1 | 4184877.8 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

```
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*
```

| NUMBER   |        | EMISSION RATE |  | BASE     |          | RELEASE  |          | INIT.    |  | INIT. |  |
|----------|--------|---------------|--|----------|----------|----------|----------|----------|--|-------|--|
| URBAN    |        | EMISSION RATE |  | AIRCRAFT |          |          |          |          |  |       |  |
| SOURCE   | PART.  | (GRAMS/SEC)   |  | X        | Y        | ELEV.    | HEIGHT   | SY       |  | SZ    |  |
| SOURCE   | SCALAR | VARY          |  |          |          |          |          |          |  |       |  |
| ID       | CATS.  |               |  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |  |       |  |
| (METERS) |        | BY            |  |          |          |          |          |          |  |       |  |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000761 | 0 | 0.19700E-06 | 659057.0 | 4184880.7 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000762 | 0 | 0.19700E-06 | 659071.0 | 4184881.5 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000763 | 0 | 0.19700E-06 | 659085.0 | 4184882.3 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000764 | 0 | 0.19700E-06 | 659099.0 | 4184883.1 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000765 | 0 | 0.19700E-06 | 659113.0 | 4184883.9 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000766 | 0 | 0.19700E-06 | 659126.9 | 4184884.6 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000767 | 0 | 0.19700E-06 | 659140.9 | 4184885.4 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000768 | 0 | 0.19700E-06 | 659154.9 | 4184886.2 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000769 | 0 | 0.19700E-06 | 659168.9 | 4184887.0 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000770 | 0 | 0.19700E-06 | 659182.8 | 4184887.8 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000771 | 0 | 0.19700E-06 | 659196.8 | 4184888.5 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000772 | 0 | 0.19700E-06 | 659210.8 | 4184889.3 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000773 | 0 | 0.19700E-06 | 659224.8 | 4184890.1 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000774 | 0 | 0.19700E-06 | 659238.8 | 4184890.9 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```
FF *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
*** ***
```

\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ   U\*

| SOURCE | NUMBER | EMISSION RATE |          |   | BASE  | RELEASE | INIT. | INIT. |
|--------|--------|---------------|----------|---|-------|---------|-------|-------|
|        | URBAN  | EMISSION RATE | AIRCRAFT |   |       |         |       |       |
|        | PART.  | (GRAMS/SEC)   | X        | Y | ELEV. | HEIGHT  | SY    | SZ    |

| SOURCE<br>ID<br>(METERS) | SCALAR<br>CATS. | VARY<br>BY  | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|--------------------------|-----------------|-------------|----------|-----------|----------|----------|----------|----------|
| -----                    |                 |             |          |           |          |          |          |          |
| L0000801                 | 0               | 0.62610E-08 | 658626.1 | 4185055.1 | 12.7     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000802                 | 0               | 0.62610E-08 | 658625.4 | 4185063.7 | 12.7     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000803                 | 0               | 0.62610E-08 | 658624.9 | 4185072.3 | 12.7     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000804                 | 0               | 0.62610E-08 | 658624.3 | 4185080.9 | 12.7     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000805                 | 0               | 0.62610E-08 | 658623.7 | 4185089.4 | 12.7     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000806                 | 0               | 0.62610E-08 | 658623.1 | 4185098.0 | 12.8     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000807                 | 0               | 0.62610E-08 | 658622.5 | 4185106.6 | 12.8     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000808                 | 0               | 0.62610E-08 | 658621.9 | 4185115.1 | 12.8     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000809                 | 0               | 0.62610E-08 | 658621.3 | 4185123.7 | 12.8     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000810                 | 0               | 0.62610E-08 | 658620.7 | 4185132.3 | 12.8     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000811                 | 0               | 0.62610E-08 | 658620.1 | 4185140.8 | 12.9     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000812                 | 0               | 0.62610E-08 | 658619.5 | 4185149.4 | 12.9     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000813                 | 0               | 0.62610E-08 | 658618.9 | 4185158.0 | 12.9     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000814                 | 0               | 0.62610E-08 | 658618.4 | 4185166.6 | 12.9     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000815                 | 0               | 0.62610E-08 | 658617.9 | 4185175.1 | 13.0     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000816                 | 0               | 0.62610E-08 | 658617.4 | 4185183.7 | 13.0     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000817                 | 0               | 0.62610E-08 | 658616.9 | 4185192.3 | 13.0     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000818                 | 0               | 0.62610E-08 | 658616.5 | 4185200.9 | 13.0     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000819                 | 0               | 0.62610E-08 | 658616.0 | 4185209.4 | 13.0     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000820                 | 0               | 0.62610E-08 | 658615.5 | 4185218.0 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000821                 | 0               | 0.62610E-08 | 658615.0 | 4185226.6 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000822                 | 0               | 0.62610E-08 | 658614.6 | 4185235.2 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000823                 | 0               | 0.62610E-08 | 658614.1 | 4185243.7 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000824                 | 0               | 0.62610E-08 | 658613.6 | 4185252.3 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000825                 | 0               | 0.62610E-08 | 658613.1 | 4185260.9 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |
| L0000826                 | 0               | 0.62610E-08 | 658612.6 | 4185269.5 | 13.1     | 3.49     | 4.00     | 3.25     |
| YES                      |                 | NO          |          |           |          |          |          |          |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

|       |         |        |        |        |        |        |  |
|-------|---------|--------|--------|--------|--------|--------|--|
| ALL   | IDLE1   | IDLE2  | IDLE3  | IDLE4  | IDLE5  | IDLE6  |  |
| IDLE7 | , IDLE8 | ,      |        |        |        |        |  |
|       | IDLE9   | IDLE10 | IDLE11 | IDLE12 | IDLE13 | IDLE14 |  |
|       | IDLE15  | IDLE16 |        |        |        |        |  |
|       | IDLE17  | IDLE18 | IDLE19 | IDLE20 | IDLE21 | IDLE22 |  |
|       | IDLE23  | IDLE24 |        |        |        |        |  |
|       | IDLE25  | IDLE26 | IDLE27 | IDLE28 | IDLE29 | IDLE30 |  |
|       | IDLE31  | IDLE32 |        |        |        |        |  |
|       | IDLE33  | IDLE34 | IDLE35 | IDLE36 | IDLE37 | IDLE38 |  |
|       | IDLE39  | IDLE40 |        |        |        |        |  |
|       | IDLE41  | IDLE42 | IDLE43 | IDLE44 | IDLE45 | IDLE46 |  |
|       | TRU1    | TRU2   |        |        |        |        |  |
|       | TRU3    | TRU4   | TRU5   | TRU6   | TRU7   | TRU8   |  |
|       | TRU9    | TRU10  |        |        |        |        |  |
|       | TRU11   | TRU12  | TRU13  | TRU14  | TRU15  | TRU16  |  |
|       | TRU17   | TRU18  |        |        |        |        |  |
|       | TRU19   | TRU20  | TRU21  | TRU22  | TRU23  | TRU24  |  |
|       | TRU25   | TRU26  |        |        |        |        |  |
|       | TRU27   | TRU28  | TRU29  | TRU30  | TRU31  | TRU32  |  |
|       | TRU33   | TRU34  |        |        |        |        |  |
|       | TRU35   | TRU36  | TRU37  | TRU38  | TRU39  | TRU40  |  |
|       | TRU41   | TRU42  |        |        |        |        |  |
|       | TRU43   | TRU44  | TRU45  | TRU46  | TTP1   | TTP2   |  |
|       | TTP3    | TTP4   |        |        |        |        |  |
|       | TTP5    | TTP6   | TTP7   | TTP8   | TTP9   | TTP10  |  |
|       | TTP11   | TTP12  |        |        |        |        |  |
|       | TTP13   | TTP14  | TTP15  | TTP16  | TTP17  | TTP18  |  |
|       | TTP19   | TTP20  |        |        |        |        |  |
|       | TTP21   | TTP22  | TTP23  | TTP24  | TTP25  | TTP26  |  |
|       | TTP27   | TTP28  |        |        |        |        |  |
|       | TTP29   | TTP30  | TTP31  | TTP32  | TTP33  | TTP34  |  |
|       | TTP35   | TTP36  |        |        |        |        |  |
|       | TTP37   | TTP38  | TTP39  | TTP40  | TTP41  | TTP42  |  |
|       | TTP43   | TTP44  |        |        |        |        |  |
|       | TTP45   | TTP46  | TTP47  | TTP48  | TTP49  | TTP50  |  |
|       | TTP51   | TTP52  |        |        |        |        |  |
|       | TTP53   | TTP54  | TTP55  | TTP56  | TTP57  | TTP58  |  |
|       | TTP59   | TTP60  |        |        |        |        |  |
|       | TTP61   | TTP62  | TTP63  | TTP64  | TTP65  | TTP66  |  |
|       | TTP67   | TTP68  |        |        |        |        |  |



PAGE 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

| SRCGROUP ID | SOURCE IDs |          |   |          |   |          |
|-------------|------------|----------|---|----------|---|----------|
| -----       | -----      |          |   |          |   |          |
| TTP69       | ,          | TTP70    | , | TTP71    | , | TTP72    |
| TTP75       | ,          | TTP76    | , |          |   |          |
| TTP77       | ,          | TTP78    | , | TTP79    | , | TTP80    |
| TTP83       | ,          | L0000001 | , |          |   |          |
| L0000002    | ,          | L0000003 | , | L0000004 | , | L0000005 |
| L0000008    | ,          | L0000009 | , |          |   |          |
| L0000010    | ,          | L0000011 | , | L0000012 | , | L0000013 |
| L0000016    | ,          | L0000017 | , |          |   |          |
| L0000018    | ,          | L0000019 | , | L0000020 | , | L0000021 |
| L0000024    | ,          | L0000025 | , |          |   |          |
| L0000026    | ,          | L0000027 | , | L0000028 | , | L0000029 |
| L0000032    | ,          | L0000033 | , |          |   |          |
| L0000034    | ,          | L0000035 | , | L0000036 | , | L0000037 |
| L0000040    | ,          | STCK1    | , |          |   |          |
| STCK2       | ,          | L0000041 | , | L0000042 | , | L0000043 |
| L0000046    | ,          | L0000047 | , |          |   |          |
| L0000048    | ,          | L0000049 | , | L0000050 | , | L0000051 |
| L0000054    | ,          | L0000055 | , |          |   |          |
| L0000056    | ,          | L0000057 | , | L0000058 | , | L0000059 |
| L0000062    | ,          | L0000063 | , |          |   |          |
| L0000064    | ,          | L0000065 | , | L0000066 | , | L0000067 |
| L0000070    | ,          | L0000071 | , |          |   |          |
| L0000072    | ,          | L0000073 | , | L0000074 | , | L0000075 |
| L0000078    | ,          | L0000079 | , |          |   |          |
| L0000080    | ,          | L0000081 | , | L0000082 | , | L0000083 |
| L0000086    | ,          | L0000087 | , |          |   |          |
| L0000088    | ,          | L0000089 | , | L0000090 | , | L0000091 |
| L0000094    | ,          | L0000095 | , |          |   |          |
| L0000096    | ,          | L0000097 | , | L0000098 | , | L0000099 |
| L0000102    | ,          | L0000103 | , |          |   |          |
| L0000104    | ,          | L0000105 | , | L0000106 | , | L0000107 |
| L0000110    | ,          | L0000111 | , |          |   |          |
| L0000112    | ,          | L0000113 | , | L0000114 | , | L0000115 |
| L0000118    | ,          | L0000119 | , |          |   |          |

L0000120 , L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,  
L0000126 , L0000127 ,  
  
L0000128 , L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,  
L0000134 , L0000135 ,  
  
L0000136 , L0000137 , L0000138 , L0000139 , L0000140 , L0000141 ,  
L0000142 , L0000143 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

L0000144 , L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,  
L0000150 , L0000151 ,  
  
L0000152 , L0000153 , L0000154 , L0000155 , L0000156 , L0000157 ,  
L0000158 , L0000159 ,  
  
L0000160 , L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,  
L0000166 , L0000167 ,  
  
L0000168 , L0000169 , L0000170 , L0000171 , L0000172 , L0000173 ,  
L0000174 , L0000175 ,  
  
L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 ,  
L0000182 , L0000183 ,  
  
L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 ,  
L0000190 , L0000191 ,  
  
L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 ,  
L0000198 , L0000199 ,  
  
L0000200 , L0000201 , L0000202 , L0000203 , L0000204 , L0000205 ,  
L0000206 , L0000207 ,  
  
L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 ,  
L0000214 , L0000215 ,  
  
L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 ,  
L0000222 , L0000223 ,  
  
L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 ,  
L0000230 , L0000231 ,  
  
L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 ,  
L0000238 , L0000239 ,  
  
L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 ,  
L0000246 , L0000247 ,  
  
L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 ,  
L0000254 , L0000255 ,  
  
L0000256 , L0000257 , L0000258 , L0000259 , L0000260 , L0000261 ,

```
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 ***      09/20/24  
*** AERMET - VERSION 21112 ***  
***                               ***      09:17:47
```

```
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*
```

SOURCE IDs  
-----

|                      |                          |                 |            |            |            |   |
|----------------------|--------------------------|-----------------|------------|------------|------------|---|
| L0000304<br>L0000310 | , L0000305<br>, L0000311 | , L0000306<br>, | , L0000307 | , L0000308 | , L0000309 | , |
| L0000312<br>L0000318 | , L0000313<br>, L0000319 | , L0000314<br>, | , L0000315 | , L0000316 | , L0000317 | , |
| L0000320<br>L0000326 | , L0000321<br>, L0000327 | , L0000322<br>, | , L0000323 | , L0000324 | , L0000325 | , |
| L0000328<br>L0000334 | , L0000329<br>, L0000335 | , L0000330<br>, | , L0000331 | , L0000332 | , L0000333 | , |
| L0000336<br>L0000342 | , L0000337<br>, L0000343 | , L0000338<br>, | , L0000339 | , L0000340 | , L0000341 | , |
| L0000344<br>L0000350 | , L0000345<br>, L0000351 | , L0000346<br>, | , L0000347 | , L0000348 | , L0000349 | , |
| L0000352<br>L0000358 | , L0000353<br>, L0000359 | , L0000354<br>, | , L0000355 | , L0000356 | , L0000357 | , |
| L0000360<br>L0000366 | , L0000361<br>, L0000367 | , L0000362<br>, | , L0000363 | , L0000364 | , L0000365 | , |
| L0000368<br>L0000374 | , L0000369<br>, L0000375 | , L0000370<br>, | , L0000371 | , L0000372 | , L0000373 | , |
| L0000376<br>L0000382 | , L0000377<br>, L0000383 | , L0000378<br>, | , L0000379 | , L0000380 | , L0000381 | , |
| L0000384<br>L0000390 | , L0000385<br>, L0000391 | , L0000386<br>, | , L0000387 | , L0000388 | , L0000389 | , |
| L0000392<br>L0000398 | , L0000393<br>, L0000399 | , L0000394<br>, | , L0000395 | , L0000396 | , L0000397 | , |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000400 | , | L0000401 | , | L0000402 | , | L0000403 | , | L0000404 | , | L0000405 | , |
| L0000406 | , | L0000407 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000408 | , | L0000409 | , | L0000410 | , | L0000411 | , | L0000412 | , | L0000413 | , |
| L0000414 | , | L0000415 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000416 | , | L0000417 | , | L0000418 | , | L0000419 | , | L0000420 | , | L0000421 | , |
| L0000422 | , | L0000423 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000424 | , | L0000425 | , | L0000426 | , | L0000427 | , | L0000428 | , | L0000429 | , |
| L0000430 | , | L0000431 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000432 | , | L0000433 | , | L0000434 | , | L0000435 | , | L0000436 | , | L0000437 | , |
| L0000438 | , | L0000439 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000440 | , | L0000441 | , | L0000442 | , | L0000443 | , | L0000444 | , | L0000445 | , |
| L0000446 | , | L0000447 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000448 | , | L0000449 | , | L0000450 | , | L0000451 | , | L0000452 | , | L0000453 | , |
| L0000454 | , | L0000455 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000456 | , | L0000457 | , | L0000458 | , | L0000459 | , | L0000460 | , | L0000461 | , |
| L0000462 | , | L0000463 | , |          |   |          |   |          |   |          |   |

|                                |                                                |
|--------------------------------|------------------------------------------------|
| *** AERMOD - VERSION 23132 *** | *** C:\Users\Michael Tirohn\Desktop\HRAs\15639 |
| Spreckels\15639 Ops HRA\1 ***  | 09/20/24                                       |
| *** AERMET - VERSION 21112 *** |                                                |
| ***                            | *** 09:17:47                                   |

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000464 | , | L0000465 | , | L0000466 | , | L0000467 | , | L0000468 | , | L0000469 | , |
| L0000470 | , | L0000471 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000472 | , | L0000473 | , | L0000474 | , | L0000475 | , | L0000476 | , | L0000477 | , |
| L0000478 | , | L0000479 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000480 | , | L0000481 | , | L0000482 | , | L0000483 | , | L0000484 | , | L0000485 | , |
| L0000486 | , | L0000487 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000488 | , | L0000489 | , | L0000490 | , | L0000491 | , | L0000492 | , | L0000493 | , |
| L0000494 | , | L0000495 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000496 | , | L0000497 | , | L0000498 | , | L0000499 | , | L0000500 | , | L0000501 | , |
| L0000502 | , | L0000503 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000504 | , | L0000505 | , | L0000506 | , | L0000507 | , | L0000508 | , | L0000509 | , |
| L0000510 | , | L0000511 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000512 | , | L0000513 | , | L0000514 | , | L0000515 | , | L0000516 | , | L0000517 | , |
| L0000518 | , | L0000519 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000520 | , | L0000521 | , | L0000522 | , | L0000523 | , | L0000524 | , | L0000525 | , |
| L0000526 | , | L0000527 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000528 | , | L0000529 | , | L0000530 | , | L0000531 | , | L0000532 | , | L0000533 | , |
| L0000534 | , | L0000535 | , |          |   |          |   |          |   |          |   |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000536 | , | L0000537 | , | L0000538 | , | L0000539 | , | L0000540 | , | L0000541 | , |
| L0000542 | , | L0000543 | , |          |   |          |   |          |   |          |   |
| L0000544 | , | L0000545 | , | L0000546 | , | L0000547 | , | L0000548 | , | L0000549 | , |
| L0000550 | , | L0000551 | , |          |   |          |   |          |   |          |   |
| L0000552 | , | L0000553 | , | L0000554 | , | L0000555 | , | L0000556 | , | L0000557 | , |
| L0000558 | , | L0000559 | , |          |   |          |   |          |   |          |   |
| L0000560 | , | L0000561 | , | L0000562 | , | L0000563 | , | L0000564 | , | L0000565 | , |
| L0000566 | , | L0000567 | , |          |   |          |   |          |   |          |   |
| L0000568 | , | L0000569 | , | L0000570 | , | L0000571 | , | L0000572 | , | L0000573 | , |
| L0000574 | , | L0000575 | , |          |   |          |   |          |   |          |   |
| L0000576 | , | L0000577 | , | L0000578 | , | L0000579 | , | L0000580 | , | L0000581 | , |
| L0000582 | , | L0000583 | , |          |   |          |   |          |   |          |   |
| L0000584 | , | L0000585 | , | L0000586 | , | L0000587 | , | L0000588 | , | L0000589 | , |
| L0000590 | , | L0000591 | , |          |   |          |   |          |   |          |   |
| L0000592 | , | L0000593 | , | L0000594 | , | L0000595 | , | L0000596 | , | L0000597 | , |
| L0000598 | , | L0000599 | , |          |   |          |   |          |   |          |   |
| L0000600 | , | L0000601 | , | L0000602 | , | L0000603 | , | L0000604 | , | L0000605 | , |
| L0000606 | , | L0000607 | , |          |   |          |   |          |   |          |   |
| L0000608 | , | L0000609 | , | L0000610 | , | L0000611 | , | L0000612 | , | L0000613 | , |
| L0000614 | , | L0000615 | , |          |   |          |   |          |   |          |   |
| L0000616 | , | L0000617 | , | L0000618 | , | L0000619 | , | L0000620 | , | L0000621 | , |
| L0000622 | , | L0000623 | , |          |   |          |   |          |   |          |   |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
 Spreckels\15639 Ops HRA\1 \*\*\*  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 09/20/24  
 \*\*\* 09:17:47

PAGE 33

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000624 | , | L0000625 | , | L0000626 | , | L0000627 | , | L0000628 | , | L0000629 | , |
| L0000630 | , | L0000631 | , |          |   |          |   |          |   |          |   |
| L0000632 | , | L0000633 | , | L0000634 | , | L0000635 | , | L0000636 | , | L0000637 | , |
| L0000638 | , | L0000639 | , |          |   |          |   |          |   |          |   |
| L0000640 | , | L0000641 | , | L0000642 | , | L0000643 | , | L0000644 | , | L0000645 | , |
| L0000646 | , | L0000647 | , |          |   |          |   |          |   |          |   |
| L0000648 | , | L0000649 | , | L0000650 | , | L0000651 | , | L0000652 | , | L0000653 | , |
| L0000654 | , | L0000655 | , |          |   |          |   |          |   |          |   |
| L0000656 | , | L0000657 | , | L0000658 | , | L0000659 | , | L0000660 | , | L0000661 | , |
| L0000662 | , | L0000663 | , |          |   |          |   |          |   |          |   |
| L0000664 | , | L0000665 | , | L0000666 | , | L0000667 | , | L0000668 | , | L0000669 | , |
| L0000670 | , | L0000671 | , |          |   |          |   |          |   |          |   |
| L0000672 | , | L0000673 | , | L0000674 | , | L0000675 | , | L0000676 | , | L0000677 | , |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     *** 09:17:47

```

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

SOURCE IDs

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000784 | , | L0000785 | , | L0000786 | , | L0000787 | , | L0000788 | , | L0000789 | , |
| L0000790 | , | L0000791 | , |          |   |          |   |          |   |          |   |
| L0000792 | , | L0000793 | , | L0000794 | , | L0000795 | , | L0000796 | , | L0000797 | , |
| L0000798 | , | L0000799 | , |          |   |          |   |          |   |          |   |
| L0000800 | , | L0000801 | , | L0000802 | , | L0000803 | , | L0000804 | , | L0000805 | , |
| L0000806 | , | L0000807 | , |          |   |          |   |          |   |          |   |
| L0000808 | , | L0000809 | , | L0000810 | , | L0000811 | , | L0000812 | , | L0000813 | , |
| L0000814 | , | L0000815 | , |          |   |          |   |          |   |          |   |

L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 ,  
L0000822 , L0000823 ,

L0000824 , L0000825 , L0000826 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 35

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP                                             | SOURCE IDs                              |
|----------|-------------------------------------------------------|-----------------------------------------|
| -----    | -----                                                 | -----                                   |
|          | 62651.                                                | IDLE1 , IDLE2 , IDLE3 , IDLE4 , IDLE5 , |
|          | IDLE6 , IDLE7 ,                                       |                                         |
| IDLE8 ,  |                                                       |                                         |
|          | IDLE9 , IDLE10 , IDLE11 , IDLE12 , IDLE13 , IDLE14 ,  |                                         |
|          | IDLE15 , IDLE16 ,                                     |                                         |
|          | IDLE17 , IDLE18 , IDLE19 , IDLE20 , IDLE21 , IDLE22 , |                                         |
|          | IDLE23 , IDLE24 ,                                     |                                         |
|          | IDLE25 , IDLE26 , IDLE27 , IDLE28 , IDLE29 , IDLE30 , |                                         |
|          | IDLE31 , IDLE32 ,                                     |                                         |
|          | IDLE33 , IDLE34 , IDLE35 , IDLE36 , IDLE37 , IDLE38 , |                                         |
|          | IDLE39 , IDLE40 ,                                     |                                         |
|          | IDLE41 , IDLE42 , IDLE43 , IDLE44 , IDLE45 , IDLE46 , |                                         |
|          | TRU1 , TRU2 ,                                         |                                         |
|          | TRU3 , TRU4 , TRU5 , TRU6 , TRU7 , TRU8 ,             |                                         |
|          | TRU9 , TRU10 ,                                        |                                         |
|          | TRU11 , TRU12 , TRU13 , TRU14 , TRU15 , TRU16 ,       |                                         |
|          | TRU17 , TRU18 ,                                       |                                         |
|          | TRU19 , TRU20 , TRU21 , TRU22 , TRU23 , TRU24 ,       |                                         |
|          | TRU25 , TRU26 ,                                       |                                         |
|          | TRU27 , TRU28 , TRU29 , TRU30 , TRU31 , TRU32 ,       |                                         |
|          | TRU33 , TRU34 ,                                       |                                         |
|          | TRU35 , TRU36 , TRU37 , TRU38 , TRU39 , TRU40 ,       |                                         |
|          | TRU41 , TRU42 ,                                       |                                         |
|          | TRU43 , TRU44 , TRU45 , TRU46 , TTP1 , TTP2 ,         |                                         |
|          | TTP3 , TTP4 ,                                         |                                         |
|          | TTP5 , TTP6 , TTP7 , TTP8 , TTP9 , TTP10 ,            |                                         |
|          | TTP11 , TTP12 ,                                       |                                         |
|          | TTP13 , TTP14 , TTP15 , TTP16 , TTP17 , TTP18 ,       |                                         |
|          | TTP19 , TTP20 ,                                       |                                         |
|          | TTP21 , TTP22 , TTP23 , TTP24 , TTP25 , TTP26 ,       |                                         |
|          | TTP27 , TTP28 ,                                       |                                         |

|       |   |       |   |       |   |       |   |       |   |       |   |
|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| TTP29 | , | TTP30 | , | TTP31 | , | TTP32 | , | TTP33 | , | TTP34 | , |
| TTP35 | , | TTP36 | , |       |   |       |   |       |   |       |   |
|       |   |       |   |       |   |       |   |       |   |       |   |
| TTP37 | , | TTP38 | , | TTP39 | , | TTP40 | , | TTP41 | , | TTP42 | , |
| TTP43 | , | TTP44 | , |       |   |       |   |       |   |       |   |
|       |   |       |   |       |   |       |   |       |   |       |   |
| TTP45 | , | TTP46 | , | TTP47 | , | TTP48 | , | TTP49 | , | TTP50 | , |
| TTP51 | , | TTP52 | , |       |   |       |   |       |   |       |   |
|       |   |       |   |       |   |       |   |       |   |       |   |
| TTP53 | , | TTP54 | , | TTP55 | , | TTP56 | , | TTP57 | , | TTP58 | , |
| TTP59 | , | TTP60 | , |       |   |       |   |       |   |       |   |
|       |   |       |   |       |   |       |   |       |   |       |   |
| TTP61 | , | TTP62 | , | TTP63 | , | TTP64 | , | TTP65 | , | TTP66 | , |
| TTP67 | , | TTP68 | , |       |   |       |   |       |   |       |   |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***      09:17:47

```

PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs |   |          |   |          |   |          |   |          |   |
|----------|-----------|------------|---|----------|---|----------|---|----------|---|----------|---|
| -----    | -----     | -----      |   |          |   |          |   |          |   |          |   |
| TTP69    | ,         | TTP70      | , | TTP71    | , | TTP72    | , | TTP73    | , | TTP74    | , |
| TTP75    | ,         | TTP76      | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| TTP77    | ,         | TTP78      | , | TTP79    | , | TTP80    | , | TTP81    | , | TTP82    | , |
| TTP83    | ,         | L0000001   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000002 | ,         | L0000003   | , | L0000004 | , | L0000005 | , | L0000006 | , | L0000007 | , |
| L0000008 | ,         | L0000009   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000010 | ,         | L0000011   | , | L0000012 | , | L0000013 | , | L0000014 | , | L0000015 | , |
| L0000016 | ,         | L0000017   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000018 | ,         | L0000019   | , | L0000020 | , | L0000021 | , | L0000022 | , | L0000023 | , |
| L0000024 | ,         | L0000025   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000026 | ,         | L0000027   | , | L0000028 | , | L0000029 | , | L0000030 | , | L0000031 | , |
| L0000032 | ,         | L0000033   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000034 | ,         | L0000035   | , | L0000036 | , | L0000037 | , | L0000038 | , | L0000039 | , |
| L0000040 | ,         | STCK1      | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| STCK2    | ,         | L0000041   | , | L0000042 | , | L0000043 | , | L0000044 | , | L0000045 | , |
| L0000046 | ,         | L0000047   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000048 | ,         | L0000049   | , | L0000050 | , | L0000051 | , | L0000052 | , | L0000053 | , |
| L0000054 | ,         | L0000055   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000056 | ,         | L0000057   | , | L0000058 | , | L0000059 | , | L0000060 | , | L0000061 | , |
| L0000062 | ,         | L0000063   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000064 | ,         | L0000065   | , | L0000066 | , | L0000067 | , | L0000068 | , | L0000069 | , |
| L0000070 | ,         | L0000071   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000072 | ,         | L0000073   | , | L0000074 | , | L0000075 | , | L0000076 | , | L0000077 | , |
| L0000078 | ,         | L0000079   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000080 | ,         | L0000081   | , | L0000082 | , | L0000083 | , | L0000084 | , | L0000085 | , |



```

L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 ,
L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,
L0000102 , L0000103 ,
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
L0000110 , L0000111 ,
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
L0000118 , L0000119 ,
L0000120 , L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
L0000126 , L0000127 ,
L0000128 , L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,
L0000134 , L0000135 ,
L0000136 , L0000137 , L0000138 , L0000139 , L0000140 , L0000141 ,
L0000142 , L0000143 ,

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24

```

```

*** AERMET - VERSION 21112 ***
***

```

```

*** 09:17:47

```

```

PAGE 37

```

```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```

```

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

```

| URBAN ID | URBAN POP | SOURCE IDs                                  |
|----------|-----------|---------------------------------------------|
| -----    | -----     | -----                                       |
| L0000144 | L0000145  | L0000146 , L0000147 , L0000148 , L0000149 , |
| L0000150 | L0000151  |                                             |
| L0000152 | L0000153  | L0000154 , L0000155 , L0000156 , L0000157 , |
| L0000158 | L0000159  |                                             |
| L0000160 | L0000161  | L0000162 , L0000163 , L0000164 , L0000165 , |
| L0000166 | L0000167  |                                             |
| L0000168 | L0000169  | L0000170 , L0000171 , L0000172 , L0000173 , |
| L0000174 | L0000175  |                                             |
| L0000176 | L0000177  | L0000178 , L0000179 , L0000180 , L0000181 , |
| L0000182 | L0000183  |                                             |
| L0000184 | L0000185  | L0000186 , L0000187 , L0000188 , L0000189 , |
| L0000190 | L0000191  |                                             |
| L0000192 | L0000193  | L0000194 , L0000195 , L0000196 , L0000197 , |
| L0000198 | L0000199  |                                             |
| L0000200 | L0000201  | L0000202 , L0000203 , L0000204 , L0000205 , |
| L0000206 | L0000207  |                                             |
| L0000208 | L0000209  | L0000210 , L0000211 , L0000212 , L0000213 , |
| L0000214 | L0000215  |                                             |
| L0000216 | L0000217  | L0000218 , L0000219 , L0000220 , L0000221 , |
| L0000222 | L0000223  |                                             |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

PAGE 38

```
*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*
```

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

| URBAN ID | URBAN POP |            | SOURCE IDs |            |            |            |            |  |
|----------|-----------|------------|------------|------------|------------|------------|------------|--|
| -----    | -----     |            |            |            |            |            |            |  |
|          | L0000304  | , L0000305 | , L0000306 | , L0000307 | , L0000308 | , L0000309 | , L0000310 |  |
|          | L0000310  | , L0000311 | , L0000312 | , L0000313 | , L0000314 | , L0000315 | , L0000316 |  |
|          | L0000312  | , L0000313 | , L0000314 | , L0000315 | , L0000316 | , L0000317 | , L0000318 |  |
|          | L0000318  | , L0000319 | , L0000320 | , L0000321 | , L0000322 | , L0000323 | , L0000324 |  |
|          | L0000320  | , L0000321 | , L0000322 | , L0000323 | , L0000324 | , L0000325 | , L0000326 |  |
|          | L0000326  | , L0000327 | , L0000328 | , L0000329 | , L0000330 | , L0000331 | , L0000332 |  |
|          | L0000328  | , L0000329 | , L0000330 | , L0000331 | , L0000332 | , L0000333 | , L0000334 |  |
|          | L0000334  | , L0000335 | , L0000336 | , L0000337 | , L0000338 | , L0000339 | , L0000340 |  |
|          | L0000336  | , L0000337 | , L0000338 | , L0000339 | , L0000340 | , L0000341 | , L0000342 |  |
|          | L0000342  | , L0000343 | , L0000344 | , L0000345 | , L0000346 | , L0000347 | , L0000348 |  |
|          | L0000344  | , L0000345 | , L0000346 | , L0000347 | , L0000348 | , L0000349 | , L0000350 |  |
|          | L0000350  | , L0000351 | , L0000352 | , L0000353 | , L0000354 | , L0000355 | , L0000356 |  |
|          | L0000352  | , L0000353 | , L0000354 | , L0000355 | , L0000356 | , L0000357 | , L0000358 |  |
|          | L0000358  | , L0000359 | , L0000360 | , L0000361 | , L0000362 | , L0000363 | , L0000364 |  |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000360 | , | L0000361 | , | L0000362 | , | L0000363 | , | L0000364 | , | L0000365 | , |
| L0000366 | , | L0000367 | , |          |   |          |   |          |   |          |   |
| L0000368 | , | L0000369 | , | L0000370 | , | L0000371 | , | L0000372 | , | L0000373 | , |
| L0000374 | , | L0000375 | , |          |   |          |   |          |   |          |   |
| L0000376 | , | L0000377 | , | L0000378 | , | L0000379 | , | L0000380 | , | L0000381 | , |
| L0000382 | , | L0000383 | , |          |   |          |   |          |   |          |   |
| L0000384 | , | L0000385 | , | L0000386 | , | L0000387 | , | L0000388 | , | L0000389 | , |
| L0000390 | , | L0000391 | , |          |   |          |   |          |   |          |   |
| L0000392 | , | L0000393 | , | L0000394 | , | L0000395 | , | L0000396 | , | L0000397 | , |
| L0000398 | , | L0000399 | , |          |   |          |   |          |   |          |   |
| L0000400 | , | L0000401 | , | L0000402 | , | L0000403 | , | L0000404 | , | L0000405 | , |
| L0000406 | , | L0000407 | , |          |   |          |   |          |   |          |   |
| L0000408 | , | L0000409 | , | L0000410 | , | L0000411 | , | L0000412 | , | L0000413 | , |
| L0000414 | , | L0000415 | , |          |   |          |   |          |   |          |   |
| L0000416 | , | L0000417 | , | L0000418 | , | L0000419 | , | L0000420 | , | L0000421 | , |
| L0000422 | , | L0000423 | , |          |   |          |   |          |   |          |   |
| L0000424 | , | L0000425 | , | L0000426 | , | L0000427 | , | L0000428 | , | L0000429 | , |
| L0000430 | , | L0000431 | , |          |   |          |   |          |   |          |   |
| L0000432 | , | L0000433 | , | L0000434 | , | L0000435 | , | L0000436 | , | L0000437 | , |
| L0000438 | , | L0000439 | , |          |   |          |   |          |   |          |   |
| L0000440 | , | L0000441 | , | L0000442 | , | L0000443 | , | L0000444 | , | L0000445 | , |
| L0000446 | , | L0000447 | , |          |   |          |   |          |   |          |   |
| L0000448 | , | L0000449 | , | L0000450 | , | L0000451 | , | L0000452 | , | L0000453 | , |
| L0000454 | , | L0000455 | , |          |   |          |   |          |   |          |   |
| L0000456 | , | L0000457 | , | L0000458 | , | L0000459 | , | L0000460 | , | L0000461 | , |
| L0000462 | , | L0000463 | , |          |   |          |   |          |   |          |   |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
 Spreckels\15639 Ops HRA\1 \*\*\*  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 09/20/24  
 \*\*\* 09:17:47

PAGE 39

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs |   |          |   |          |   |          |   |          |   |
|----------|-----------|------------|---|----------|---|----------|---|----------|---|----------|---|
| -----    | -----     | -----      |   |          |   |          |   |          |   |          |   |
| L0000464 | ,         | L0000465   | , | L0000466 | , | L0000467 | , | L0000468 | , | L0000469 | , |
| L0000470 | ,         | L0000471   | , |          |   |          |   |          |   |          |   |
| L0000472 | ,         | L0000473   | , | L0000474 | , | L0000475 | , | L0000476 | , | L0000477 | , |
| L0000478 | ,         | L0000479   | , |          |   |          |   |          |   |          |   |
| L0000480 | ,         | L0000481   | , | L0000482 | , | L0000483 | , | L0000484 | , | L0000485 | , |
| L0000486 | ,         | L0000487   | , |          |   |          |   |          |   |          |   |
| L0000488 | ,         | L0000489   | , | L0000490 | , | L0000491 | , | L0000492 | , | L0000493 | , |
| L0000494 | ,         | L0000495   | , |          |   |          |   |          |   |          |   |
| L0000496 | ,         | L0000497   | , | L0000498 | , | L0000499 | , | L0000500 | , | L0000501 | , |

|          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|
| L0000502 | , | L0000503 | , |          |   |          |   |
| L0000504 | , | L0000505 | , | L0000506 | , | L0000507 | , |
| L0000510 | , | L0000511 | , |          |   |          |   |
| L0000512 | , | L0000513 | , | L0000514 | , | L0000515 | , |
| L0000518 | , | L0000519 | , |          |   |          |   |
| L0000520 | , | L0000521 | , | L0000522 | , | L0000523 | , |
| L0000526 | , | L0000527 | , |          |   |          |   |
| L0000528 | , | L0000529 | , | L0000530 | , | L0000531 | , |
| L0000534 | , | L0000535 | , |          |   |          |   |
| L0000536 | , | L0000537 | , | L0000538 | , | L0000539 | , |
| L0000542 | , | L0000543 | , |          |   |          |   |
| L0000544 | , | L0000545 | , | L0000546 | , | L0000547 | , |
| L0000550 | , | L0000551 | , |          |   |          |   |
| L0000552 | , | L0000553 | , | L0000554 | , | L0000555 | , |
| L0000558 | , | L0000559 | , |          |   |          |   |
| L0000560 | , | L0000561 | , | L0000562 | , | L0000563 | , |
| L0000566 | , | L0000567 | , |          |   |          |   |
| L0000568 | , | L0000569 | , | L0000570 | , | L0000571 | , |
| L0000574 | , | L0000575 | , |          |   |          |   |
| L0000576 | , | L0000577 | , | L0000578 | , | L0000579 | , |
| L0000582 | , | L0000583 | , |          |   |          |   |
| L0000584 | , | L0000585 | , | L0000586 | , | L0000587 | , |
| L0000590 | , | L0000591 | , |          |   |          |   |
| L0000592 | , | L0000593 | , | L0000594 | , | L0000595 | , |
| L0000598 | , | L0000599 | , |          |   |          |   |
| L0000600 | , | L0000601 | , | L0000602 | , | L0000603 | , |
| L0000606 | , | L0000607 | , |          |   |          |   |
| L0000608 | , | L0000609 | , | L0000610 | , | L0000611 | , |
| L0000614 | , | L0000615 | , |          |   |          |   |
| L0000616 | , | L0000617 | , | L0000618 | , | L0000619 | , |
| L0000622 | , | L0000623 | , |          |   |          |   |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
 Spreckels\15639 Ops HRA\1 \*\*\*  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 09/20/24  
 \*\*\* 09:17:47

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs |
|----------|-----------|------------|
| -----    | -----     | -----      |
| L0000624 | ,         | L0000625   |
| L0000630 | ,         | L0000631   |
|          | ,         |            |
| L0000632 | ,         | L0000633   |
| L0000638 | ,         | L0000639   |
|          | ,         |            |
| L0000626 | ,         | L0000627   |
|          | ,         | L0000628   |
|          | ,         | L0000629   |
|          | ,         |            |
| L0000634 | ,         | L0000635   |
|          | ,         | L0000636   |
|          | ,         | L0000637   |
|          | ,         |            |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000640 | , | L0000641 | , | L0000642 | , | L0000643 | , | L0000644 | , | L0000645 | , |
| L0000646 | , | L0000647 | , |          |   |          |   |          |   |          |   |
| L0000648 | , | L0000649 | , | L0000650 | , | L0000651 | , | L0000652 | , | L0000653 | , |
| L0000654 | , | L0000655 | , |          |   |          |   |          |   |          |   |
| L0000656 | , | L0000657 | , | L0000658 | , | L0000659 | , | L0000660 | , | L0000661 | , |
| L0000662 | , | L0000663 | , |          |   |          |   |          |   |          |   |
| L0000664 | , | L0000665 | , | L0000666 | , | L0000667 | , | L0000668 | , | L0000669 | , |
| L0000670 | , | L0000671 | , |          |   |          |   |          |   |          |   |
| L0000672 | , | L0000673 | , | L0000674 | , | L0000675 | , | L0000676 | , | L0000677 | , |
| L0000678 | , | L0000679 | , |          |   |          |   |          |   |          |   |
| L0000680 | , | L0000681 | , | L0000682 | , | L0000683 | , | L0000684 | , | L0000685 | , |
| L0000686 | , | L0000687 | , |          |   |          |   |          |   |          |   |
| L0000688 | , | L0000689 | , | L0000690 | , | L0000691 | , | L0000692 | , | L0000693 | , |
| L0000694 | , | L0000695 | , |          |   |          |   |          |   |          |   |
| L0000696 | , | L0000697 | , | L0000698 | , | L0000699 | , | L0000700 | , | L0000701 | , |
| L0000702 | , | L0000703 | , |          |   |          |   |          |   |          |   |
| L0000704 | , | L0000705 | , | L0000706 | , | L0000707 | , | L0000708 | , | L0000709 | , |
| L0000710 | , | L0000711 | , |          |   |          |   |          |   |          |   |
| L0000712 | , | L0000713 | , | L0000714 | , | L0000715 | , | L0000716 | , | L0000717 | , |
| L0000718 | , | L0000719 | , |          |   |          |   |          |   |          |   |
| L0000720 | , | L0000721 | , | L0000722 | , | L0000723 | , | L0000724 | , | L0000725 | , |
| L0000726 | , | L0000727 | , |          |   |          |   |          |   |          |   |
| L0000728 | , | L0000729 | , | L0000730 | , | L0000731 | , | L0000732 | , | L0000733 | , |
| L0000734 | , | L0000735 | , |          |   |          |   |          |   |          |   |
| L0000736 | , | L0000737 | , | L0000738 | , | L0000739 | , | L0000740 | , | L0000741 | , |
| L0000742 | , | L0000743 | , |          |   |          |   |          |   |          |   |
| L0000744 | , | L0000745 | , | L0000746 | , | L0000747 | , | L0000748 | , | L0000749 | , |
| L0000750 | , | L0000751 | , |          |   |          |   |          |   |          |   |
| L0000752 | , | L0000753 | , | L0000754 | , | L0000755 | , | L0000756 | , | L0000757 | , |
| L0000758 | , | L0000759 | , |          |   |          |   |          |   |          |   |
| L0000760 | , | L0000761 | , | L0000762 | , | L0000763 | , | L0000764 | , | L0000765 | , |
| L0000766 | , | L0000767 | , |          |   |          |   |          |   |          |   |
| L0000768 | , | L0000769 | , | L0000770 | , | L0000771 | , | L0000772 | , | L0000773 | , |
| L0000774 | , | L0000775 | , |          |   |          |   |          |   |          |   |
| L0000776 | , | L0000777 | , | L0000778 | , | L0000779 | , | L0000780 | , | L0000781 | , |
| L0000782 | , | L0000783 | , |          |   |          |   |          |   |          |   |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

URBAN ID URBAN POP

SOURCE IDs

```

L0000784 , L0000785 , L0000786 , L0000787 , L0000788 , L0000789 ,
L0000790 , L0000791 ,

L0000792 , L0000793 , L0000794 , L0000795 , L0000796 , L0000797 ,
L0000798 , L0000799 ,

L0000800 , L0000801 , L0000802 , L0000803 , L0000804 , L0000805 ,
L0000806 , L0000807 ,

L0000808 , L0000809 , L0000810 , L0000811 , L0000812 , L0000813 ,
L0000814 , L0000815 ,

L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 ,
L0000822 , L0000823 ,

```

```

L0000824 , L0000825 , L0000826 ,

```

```

FF *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24

```

```

*** AERMET - VERSION 21112 ***
***

```

```

*** 09:17:47

```

```

PAGE 42

```

```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```

```

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

```

```

SOURCE ID: IDLE1

```

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -15.5,  | -91.7,  | 2   | 13.7, | 340.1, | 204.2, | -26.1,  | -79.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -35.9,  | -65.3,  | 4   | 13.7, | 306.8, | 285.7, | -44.6,  | -48.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -52.0,  | -31.0,  | 6   | 13.7, | 236.4, | 332.7, | -57.8,  | -12.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -61.8,  | 7.1,    | 8   | 13.7, | 138.4, | 339.6, | -63.9,  | 26.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -66.5,  | 46.3,   | 10  | 13.7, | 154.2, | 341.4, | -79.0,  | 61.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -90.3,  | 76.0,   | 12  | 13.7, | 248.8, | 328.4, | -98.9,  | 88.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -104.5, | 98.2,   | 14  | 13.7, | 314.0, | 275.8, | -106.9, | 105.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -106.1, | 108.6,  | 16  | 13.7, | 341.3, | 189.9, | -102.0, | 108.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -95.6,  | 105.8,  | 18  | 13.7, | 333.6, | 101.5, | -97.0,  | 100.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -138.6, | 91.7,   | 20  | 13.7, | 340.1, | 204.2, | -178.1, | 79.7,   |
| 21  | 13.7, | 328.4, | 248.8, | -212.8, | 65.3,   | 22  | 13.7, | 306.8, | 285.7, | -241.1, | 48.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -262.0, | 31.0,   | 24  | 13.7, | 236.4, | 332.7, | -274.9, | 12.1,   |
| 25  | 13.7, | 189.9, | 341.3, | -279.5, | -7.1,   | 26  | 13.7, | 138.4, | 339.6, | -275.6, | -26.4,  |
| 27  | 13.7, | 101.5, | 333.6, | -267.1, | -46.3,  | 28  | 13.7, | 154.2, | 341.4, | -262.4, | -61.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -249.8, | -76.0,  | 30  | 13.7, | 248.8, | 328.4, | -229.5, | -88.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -202.3, | -98.2,  | 32  | 13.7, | 314.0, | 275.8, | -168.9, | -105.0, |
| 33  | 13.7, | 332.7, | 236.4, | -130.4, | -108.6, | 34  | 13.7, | 341.3, | 189.9, | -87.9,  | -108.9, |
| 35  | 13.7, | 339.6, | 138.4, | -42.7,  | -105.8, | 36  | 13.7, | 333.6, | 101.5, | -4.5,   | -100.3, |

```

SOURCE ID: IDLE2

```

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -16.4,  | -87.8, | 2   | 13.7, | 340.1, | 204.2, | -27.7,  | -76.0, |
| 3   | 13.7, | 328.4, | 248.8, | -38.1,  | -61.9, | 4   | 13.7, | 306.8, | 285.7, | -47.4,  | -45.9, |
| 5   | 13.7, | 275.8, | 314.0, | -55.2,  | -28.6, | 6   | 13.7, | 236.4, | 332.7, | -61.4,  | -10.3, |
| 7   | 13.7, | 189.9, | 341.3, | -65.7,  | 8.2,   | 8   | 13.7, | 138.4, | 339.6, | -68.0,  | 26.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -70.5,  | 46.1,  | 10  | 13.7, | 154.2, | 341.4, | -82.9,  | 60.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -94.0,  | 74.4,  | 12  | 13.7, | 248.8, | 328.4, | -102.3, | 86.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -107.4, | 95.5,  | 14  | 13.7, | 314.0, | 275.8, | -109.3, | 101.8, |
| 15  | 13.7, | 332.7, | 236.4, | -107.9, | 105.0, | 16  | 13.7, | 341.3, | 189.9, | -103.2, | 105.0, |
| 17  | 13.7, | 339.6, | 138.4, | -96.1,  | 101.8, | 18  | 13.7, | 333.6, | 101.5, | -96.8,  | 96.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -137.7, | 87.8,  | 20  | 13.7, | 340.1, | 204.2, | -176.5, | 76.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -210.6, | 61.9,  | 22  | 13.7, | 306.8, | 285.7, | -238.3, | 45.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -258.7, | 28.6,  | 24  | 13.7, | 236.4, | 332.7, | -271.3, | 10.3,  |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 25 | 13.7, | 189.9, | 341.3, | -275.7, | -8.2,   | 26 | 13.7, | 138.4, | 339.6, | -271.6, | -26.9,  |
| 27 | 13.7, | 101.5, | 333.6, | -263.1, | -46.1,  | 28 | 13.7, | 154.2, | 341.4, | -258.5, | -60.6,  |
| 29 | 13.7, | 204.2, | 340.1, | -246.0, | -74.4,  | 30 | 13.7, | 248.8, | 328.4, | -226.1, | -86.2,  |
| 31 | 13.7, | 285.7, | 306.8, | -199.3, | -95.5,  | 32 | 13.7, | 314.0, | 275.8, | -166.4, | -101.8, |
| 33 | 13.7, | 332.7, | 236.4, | -128.5, | -105.0, | 34 | 13.7, | 341.3, | 189.9, | -86.7,  | -105.0, |
| 35 | 13.7, | 339.6, | 138.4, | -42.2,  | -101.8, | 36 | 13.7, | 333.6, | 101.5, | -4.7,   | -96.3,  |

SOURCE ID: IDLE3

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -17.2,  | -84.0,  | 2   | 13.7, | 340.1, | 204.2, | -29.1,  | -72.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -40.1,  | -58.6,  | 4   | 13.7, | 306.8, | 285.7, | -49.9,  | -43.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -58.2,  | -26.1,  | 6   | 13.7, | 236.4, | 332.7, | -64.7,  | -8.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -69.2,  | 9.5,    | 8   | 13.7, | 138.4, | 339.6, | -71.7,  | 27.5,   |
| 9   | 13.7, | 101.5, | 333.6, | -74.3,  | 46.0,   | 10  | 13.7, | 154.2, | 341.4, | -86.6,  | 59.9,   |
| 11  | 13.7, | 204.2, | 340.1, | -97.6,  | 73.1,   | 12  | 13.7, | 248.8, | 328.4, | -105.6, | 84.3,   |
| 13  | 13.7, | 285.7, | 306.8, | -110.3, | 93.0,   | 14  | 13.7, | 314.0, | 275.8, | -111.7, | 98.8,   |
| 15  | 13.7, | 332.7, | 236.4, | -109.8, | 101.6,  | 16  | 13.7, | 341.3, | 189.9, | -104.5, | 101.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -96.7,  | 98.1,   | 18  | 13.7, | 333.6, | 101.5, | -96.7,  | 92.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -137.0, | 84.0,   | 20  | 13.7, | 340.1, | 204.2, | -175.2, | 72.4,   |
| 21  | 13.7, | 328.4, | 248.8, | -208.7, | 58.6,   | 22  | 13.7, | 306.8, | 285.7, | -235.8, | 43.0,   |
| 23  | 13.7, | 275.8, | 314.0, | -255.8, | 26.1,   | 24  | 13.7, | 236.4, | 332.7, | -268.0, | 8.5,    |
| 25  | 13.7, | 189.9, | 341.3, | -272.1, | -9.5,   | 26  | 13.7, | 138.4, | 339.6, | -267.9, | -27.5,  |
| 27  | 13.7, | 101.5, | 333.6, | -259.3, | -46.0,  | 28  | 13.7, | 154.2, | 341.4, | -254.8, | -59.9,  |
| 29  | 13.7, | 204.2, | 340.1, | -242.5, | -73.1,  | 30  | 13.7, | 248.8, | 328.4, | -222.8, | -84.3,  |
| 31  | 13.7, | 285.7, | 306.8, | -196.4, | -93.0,  | 32  | 13.7, | 314.0, | 275.8, | -164.0, | -98.8,  |
| 33  | 13.7, | 332.7, | 236.4, | -126.7, | -101.6, | 34  | 13.7, | 341.3, | 189.9, | -85.5,  | -101.4, |
| 35  | 13.7, | 339.6, | 138.4, | -41.6,  | -98.1,  | 36  | 13.7, | 333.6, | 101.5, | -4.7,   | -92.5,  |

SOURCE ID: IDLE4

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.0,  | -80.1, | 2   | 13.7, | 340.1, | 204.2, | -30.6,  | -68.7, |
| 3   | 13.7, | 328.4, | 248.8, | -42.2,  | -55.2, | 4   | 13.7, | 306.8, | 285.7, | -52.6,  | -40.1, |
| 5   | 13.7, | 275.8, | 314.0, | -61.3,  | -23.7, | 6   | 13.7, | 236.4, | 332.7, | -68.2,  | -6.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -73.0,  | 10.7,  | 8   | 13.7, | 138.4, | 339.6, | -75.7,  | 28.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -78.3,  | 45.9,  | 10  | 13.7, | 154.2, | 341.4, | -90.6,  | 59.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -101.3, | 71.6,  | 12  | 13.7, | 248.8, | 328.4, | -109.0, | 82.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -113.3, | 90.3,  | 14  | 13.7, | 314.0, | 275.8, | -114.2, | 95.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -111.6, | 98.1,  | 16  | 13.7, | 341.3, | 189.9, | -105.7, | 97.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -97.3,  | 94.1,  | 18  | 13.7, | 333.6, | 101.5, | -96.6,  | 88.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -136.2, | 80.1,  | 20  | 13.7, | 340.1, | 204.2, | -173.7, | 68.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -206.6, | 55.2,  | 22  | 13.7, | 306.8, | 285.7, | -233.2, | 40.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -252.7, | 23.7,  | 24  | 13.7, | 236.4, | 332.7, | -264.5, | 6.6,   |
| 25  | 13.7, | 189.9, | 341.3, | -268.3, | -10.7, | 26  | 13.7, | 138.4, | 339.6, | -263.9, | -28.1, |
| 27  | 13.7, | 101.5, | 333.6, | -255.3, | -45.9, | 28  | 13.7, | 154.2, | 341.4, | -250.9, | -59.1, |
| 29  | 13.7, | 204.2, | 340.1, | -238.8, | -71.6, | 30  | 13.7, | 248.8, | 328.4, | -219.5, | -82.2, |
| 31  | 13.7, | 285.7, | 306.8, | -193.5, | -90.3, | 32  | 13.7, | 314.0, | 275.8, | -161.6, | -95.7, |
| 33  | 13.7, | 332.7, | 236.4, | -124.8, | -98.1, | 34  | 13.7, | 341.3, | 189.9, | -84.2,  | -97.6, |
| 35  | 13.7, | 339.6, | 138.4, | -41.1,  | -94.1, | 36  | 13.7, | 333.6, | 101.5, | -4.9,   | -88.5, |



\*\*\* AERMOD - VERSION 23132 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1 \*\*\*

09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 43

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE5

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.7, | -76.1, | 2   | 13.7, | 340.1, | 204.2, | -32.0, | -64.9, |
| 3   | 13.7, | 328.4, | 248.8, | -44.3, | -51.7, | 4   | 13.7, | 306.8, | 285.7, | -55.2, | -37.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 5  | 13.7, | 275.8, | 314.0, | -64.5,  | -21.1, | 6  | 13.7, | 236.4, | 332.7, | -71.8,  | -4.6,  |
| 7  | 13.7, | 189.9, | 341.3, | -76.9,  | 12.1,  | 8  | 13.7, | 138.4, | 339.6, | -79.7,  | 28.8,  |
| 9  | 13.7, | 101.5, | 333.6, | -82.4,  | 45.8,  | 10 | 13.7, | 154.2, | 341.4, | -94.6,  | 58.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -105.1, | 70.1,  | 12 | 13.7, | 248.8, | 328.4, | -112.5, | 80.1,  |
| 13 | 13.7, | 285.7, | 306.8, | -116.4, | 87.6,  | 14 | 13.7, | 314.0, | 275.8, | -116.8, | 92.5,  |
| 15 | 13.7, | 332.7, | 236.4, | -113.6, | 94.6,  | 16 | 13.7, | 341.3, | 189.9, | -107.0, | 93.8,  |
| 17 | 13.7, | 339.6, | 138.4, | -97.9,  | 90.1,  | 18 | 13.7, | 333.6, | 101.5, | -96.5,  | 84.4,  |
| 19 | 13.7, | 341.4, | 154.2, | -135.4, | 76.1,  | 20 | 13.7, | 340.1, | 204.2, | -172.3, | 64.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -204.5, | 51.7,  | 22 | 13.7, | 306.8, | 285.7, | -230.5, | 37.0,  |
| 23 | 13.7, | 275.8, | 314.0, | -249.5, | 21.1,  | 24 | 13.7, | 236.4, | 332.7, | -260.9, | 4.6,   |
| 25 | 13.7, | 189.9, | 341.3, | -264.4, | -12.1, | 26 | 13.7, | 138.4, | 339.6, | -259.9, | -28.8, |
| 27 | 13.7, | 101.5, | 333.6, | -251.2, | -45.8, | 28 | 13.7, | 154.2, | 341.4, | -246.8, | -58.3, |
| 29 | 13.7, | 204.2, | 340.1, | -235.0, | -70.1, | 30 | 13.7, | 248.8, | 328.4, | -215.9, | -80.1, |
| 31 | 13.7, | 285.7, | 306.8, | -190.3, | -87.6, | 32 | 13.7, | 314.0, | 275.8, | -159.0, | -92.5, |
| 33 | 13.7, | 332.7, | 236.4, | -122.8, | -94.6, | 34 | 13.7, | 341.3, | 189.9, | -82.9,  | -93.8, |
| 35 | 13.7, | 339.6, | 138.4, | -40.4,  | -90.1, | 36 | 13.7, | 333.6, | 101.5, | -4.9,   | -84.4, |

SOURCE ID: IDLE6

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -20.3,  | -68.5, | 2   | 13.7, | 340.1, | 204.2, | -34.8,  | -57.7, |
| 3   | 13.7, | 328.4, | 248.8, | -48.3,  | -45.1, | 4   | 13.7, | 306.8, | 285.7, | -60.4,  | -31.1, |
| 5   | 13.7, | 275.8, | 314.0, | -70.6,  | -16.2, | 6   | 13.7, | 236.4, | 332.7, | -78.6,  | -0.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -84.3,  | 14.6,  | 8   | 13.7, | 138.4, | 339.6, | -87.4,  | 29.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -90.2,  | 45.6,  | 10  | 13.7, | 154.2, | 341.4, | -102.2, | 56.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -112.4, | 67.3,  | 12  | 13.7, | 248.8, | 328.4, | -119.1, | 76.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -122.2, | 82.5,  | 14  | 13.7, | 314.0, | 275.8, | -121.6, | 86.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -117.4, | 87.7,  | 16  | 13.7, | 341.3, | 189.9, | -109.5, | 86.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.1,  | 82.4,  | 18  | 13.7, | 333.6, | 101.5, | -96.3,  | 76.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.9, | 68.5,  | 20  | 13.7, | 340.1, | 204.2, | -169.4, | 57.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -200.4, | 45.1,  | 22  | 13.7, | 306.8, | 285.7, | -225.3, | 31.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -243.4, | 16.2,  | 24  | 13.7, | 236.4, | 332.7, | -254.1, | 0.9,   |
| 25  | 13.7, | 189.9, | 341.3, | -257.0, | -14.6, | 26  | 13.7, | 138.4, | 339.6, | -252.2, | -29.9, |
| 27  | 13.7, | 101.5, | 333.6, | -243.4, | -45.6, | 28  | 13.7, | 154.2, | 341.4, | -239.2, | -56.8, |
| 29  | 13.7, | 204.2, | 340.1, | -227.7, | -67.3, | 30  | 13.7, | 248.8, | 328.4, | -209.3, | -76.0, |
| 31  | 13.7, | 285.7, | 306.8, | -184.5, | -82.5, | 32  | 13.7, | 314.0, | 275.8, | -154.1, | -86.4, |
| 33  | 13.7, | 332.7, | 236.4, | -119.1, | -87.7, | 34  | 13.7, | 341.3, | 189.9, | -80.4,  | -86.4, |
| 35  | 13.7, | 339.6, | 138.4, | -39.3,  | -82.4, | 36  | 13.7, | 333.6, | 101.5, | -5.1,   | -76.6, |

SOURCE ID: IDLE7

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.2,  | -64.6, | 2   | 13.7, | 340.1, | 204.2, | -36.4,  | -53.9, |
| 3   | 13.7, | 328.4, | 248.8, | -50.5,  | -41.7, | 4   | 13.7, | 306.8, | 285.7, | -63.1,  | -28.2, |
| 5   | 13.7, | 275.8, | 314.0, | -73.8,  | -13.8, | 6   | 13.7, | 236.4, | 332.7, | -82.2,  | 1.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -88.1,  | 15.8,  | 8   | 13.7, | 138.4, | 339.6, | -91.4,  | 30.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -94.2,  | 45.4,  | 10  | 13.7, | 154.2, | 341.4, | -106.1, | 55.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -116.1, | 65.7,  | 12  | 13.7, | 248.8, | 328.4, | -122.5, | 73.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -125.2, | 79.7,  | 14  | 13.7, | 314.0, | 275.8, | -124.1, | 83.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -119.2, | 84.1,  | 16  | 13.7, | 341.3, | 189.9, | -110.7, | 82.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.6,  | 78.4,  | 18  | 13.7, | 333.6, | 101.5, | -96.1,  | 72.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.0, | 64.6,  | 20  | 13.7, | 340.1, | 204.2, | -167.8, | 53.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -198.2, | 41.7,  | 22  | 13.7, | 306.8, | 285.7, | -222.6, | 28.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -240.2, | 13.8,  | 24  | 13.7, | 236.4, | 332.7, | -250.5, | -1.0,  |
| 25  | 13.7, | 189.9, | 341.3, | -253.2, | -15.8, | 26  | 13.7, | 138.4, | 339.6, | -248.2, | -30.4, |
| 27  | 13.7, | 101.5, | 333.6, | -239.4, | -45.4, | 28  | 13.7, | 154.2, | 341.4, | -235.3, | -55.9, |
| 29  | 13.7, | 204.2, | 340.1, | -224.0, | -65.7, | 30  | 13.7, | 248.8, | 328.4, | -205.9, | -73.8, |
| 31  | 13.7, | 285.7, | 306.8, | -181.6, | -79.7, | 32  | 13.7, | 314.0, | 275.8, | -151.7, | -83.2, |
| 33  | 13.7, | 332.7, | 236.4, | -117.2, | -84.1, | 34  | 13.7, | 341.3, | 189.9, | -79.2,  | -82.5, |
| 35  | 13.7, | 339.6, | 138.4, | -38.8,  | -78.4, | 36  | 13.7, | 333.6, | 101.5, | -5.3,   | -72.6, |

SOURCE ID: IDLE8

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.9, | -60.8, | 2   | 13.7, | 340.1, | 204.2, | -37.8, | -50.4, |
| 3   | 13.7, | 328.4, | 248.8, | -52.5, | -38.4, | 4   | 13.7, | 306.8, | 285.7, | -65.6, | -25.3, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 5  | 13.7, | 275.8, | 314.0, | -76.7,  | -11.4, | 6  | 13.7, | 236.4, | 332.7, | -85.5,  | 2.8,   |
| 7  | 13.7, | 189.9, | 341.3, | -91.7,  | 17.0,  | 8  | 13.7, | 138.4, | 339.6, | -95.2,  | 31.0,  |
| 9  | 13.7, | 101.5, | 333.6, | -98.0,  | 45.4,  | 10 | 13.7, | 154.2, | 341.4, | -109.9, | 55.2,  |
| 11 | 13.7, | 204.2, | 340.1, | -119.6, | 64.4,  | 12 | 13.7, | 248.8, | 328.4, | -125.8, | 71.9,  |
| 13 | 13.7, | 285.7, | 306.8, | -128.1, | 77.2,  | 14 | 13.7, | 314.0, | 275.8, | -126.5, | 80.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -121.1, | 80.8,  | 16 | 13.7, | 341.3, | 189.9, | -112.0, | 78.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -100.2, | 74.6,  | 18 | 13.7, | 333.6, | 101.5, | -96.1,  | 68.8,  |
| 19 | 13.7, | 341.4, | 154.2, | -132.3, | 60.8,  | 20 | 13.7, | 340.1, | 204.2, | -166.5, | 50.4,  |
| 21 | 13.7, | 328.4, | 248.8, | -196.3, | 38.4,  | 22 | 13.7, | 306.8, | 285.7, | -220.1, | 25.3,  |
| 23 | 13.7, | 275.8, | 314.0, | -237.2, | 11.4,  | 24 | 13.7, | 236.4, | 332.7, | -247.2, | -2.8,  |
| 25 | 13.7, | 189.9, | 341.3, | -249.6, | -17.0, | 26 | 13.7, | 138.4, | 339.6, | -244.4, | -31.0, |
| 27 | 13.7, | 101.5, | 333.6, | -235.6, | -45.4, | 28 | 13.7, | 154.2, | 341.4, | -231.5, | -55.2, |
| 29 | 13.7, | 204.2, | 340.1, | -220.4, | -64.4, | 30 | 13.7, | 248.8, | 328.4, | -202.6, | -71.9, |
| 31 | 13.7, | 285.7, | 306.8, | -178.7, | -77.2, | 32 | 13.7, | 314.0, | 275.8, | -149.3, | -80.2, |
| 33 | 13.7, | 332.7, | 236.4, | -115.4, | -80.8, | 34 | 13.7, | 341.3, | 189.9, | -78.0,  | -78.9, |
| 35 | 13.7, | 339.6, | 138.4, | -38.1,  | -74.6, | 36 | 13.7, | 333.6, | 101.5, | -5.4,   | -68.8, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE9

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.7,  | -56.9, | 2   | 13.7, | 340.1, | 204.2, | -39.3,  | -46.7, |
| 3   | 13.7, | 328.4, | 248.8, | -54.6,  | -35.0, | 4   | 13.7, | 306.8, | 285.7, | -68.3,  | -22.3, |
| 5   | 13.7, | 275.8, | 314.0, | -79.9,  | -8.9,  | 6   | 13.7, | 236.4, | 332.7, | -89.1,  | 4.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -95.5,  | 18.2,  | 8   | 13.7, | 138.4, | 339.6, | -99.1,  | 31.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -102.0, | 45.2,  | 10  | 13.7, | 154.2, | 341.4, | -113.8, | 54.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -123.3, | 62.9,  | 12  | 13.7, | 248.8, | 328.4, | -129.2, | 69.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -131.0, | 74.6,  | 14  | 13.7, | 314.0, | 275.8, | -129.0, | 77.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -122.9, | 77.3,  | 16  | 13.7, | 341.3, | 189.9, | -113.2, | 75.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -100.8, | 70.7,  | 18  | 13.7, | 333.6, | 101.5, | -96.0,  | 64.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -131.4, | 56.9,  | 20  | 13.7, | 340.1, | 204.2, | -165.0, | 46.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.2, | 35.0,  | 22  | 13.7, | 306.8, | 285.7, | -217.4, | 22.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -234.1, | 8.9,   | 24  | 13.7, | 236.4, | 332.7, | -243.6, | -4.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -245.8, | -18.2, | 26  | 13.7, | 138.4, | 339.6, | -240.5, | -31.6, |
| 27  | 13.7, | 101.5, | 333.6, | -231.6, | -45.2, | 28  | 13.7, | 154.2, | 341.4, | -227.6, | -54.3, |
| 29  | 13.7, | 204.2, | 340.1, | -216.7, | -62.9, | 30  | 13.7, | 248.8, | 328.4, | -199.2, | -69.8, |
| 31  | 13.7, | 285.7, | 306.8, | -175.7, | -74.6, | 32  | 13.7, | 314.0, | 275.8, | -146.8, | -77.1, |
| 33  | 13.7, | 332.7, | 236.4, | -113.5, | -77.3, | 34  | 13.7, | 341.3, | 189.9, | -76.7,  | -75.1, |
| 35  | 13.7, | 339.6, | 138.4, | -37.6,  | -70.7, | 36  | 13.7, | 333.6, | 101.5, | -5.5,   | -64.8, |

SOURCE ID: IDLE10

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.5,  | -52.9, | 2   | 13.7, | 340.1, | 204.2, | -40.7,  | -42.9, |
| 3   | 13.7, | 328.4, | 248.8, | -56.7,  | -31.5, | 4   | 13.7, | 306.8, | 285.7, | -70.9,  | -19.2, |
| 5   | 13.7, | 275.8, | 314.0, | -83.0,  | -6.3,  | 6   | 13.7, | 236.4, | 332.7, | -92.6,  | 6.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -99.4,  | 19.6,  | 8   | 13.7, | 138.4, | 339.6, | -103.1, | 32.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -106.1, | 45.2,  | 10  | 13.7, | 154.2, | 341.4, | -117.8, | 53.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -127.2, | 61.4,  | 12  | 13.7, | 248.8, | 328.4, | -132.7, | 67.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -134.2, | 71.9,  | 14  | 13.7, | 314.0, | 275.8, | -131.5, | 73.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -124.9, | 73.7,  | 16  | 13.7, | 341.3, | 189.9, | -114.5, | 71.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -101.4, | 66.6,  | 18  | 13.7, | 333.6, | 101.5, | -95.9,  | 60.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -130.7, | 52.9,  | 20  | 13.7, | 340.1, | 204.2, | -163.6, | 42.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.1, | 31.5,  | 22  | 13.7, | 306.8, | 285.7, | -214.8, | 19.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -230.9, | 6.3,   | 24  | 13.7, | 236.4, | 332.7, | -240.1, | -6.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -241.9, | -19.6, | 26  | 13.7, | 138.4, | 339.6, | -236.4, | -32.2, |
| 27  | 13.7, | 101.5, | 333.6, | -227.5, | -45.2, | 28  | 13.7, | 154.2, | 341.4, | -223.6, | -53.6, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 29 | 13.7, | 204.2, | 340.1, | -212.9, | -61.4, | 30 | 13.7, | 248.8, | 328.4, | -195.7, | -67.7, |
| 31 | 13.7, | 285.7, | 306.8, | -172.6, | -71.9, | 32 | 13.7, | 314.0, | 275.8, | -144.2, | -73.9, |
| 33 | 13.7, | 332.7, | 236.4, | -111.5, | -73.7, | 34 | 13.7, | 341.3, | 189.9, | -75.3,  | -71.3, |
| 35 | 13.7, | 339.6, | 138.4, | -36.9,  | -66.6, | 36 | 13.7, | 333.6, | 101.5, | -5.5,   | -60.7, |

SOURCE ID: IDLE11

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.3,  | -49.0, | 2   | 13.7, | 340.1, | 204.2, | -42.2,  | -39.2, |
| 3   | 13.7, | 328.4, | 248.8, | -58.8,  | -28.2, | 4   | 13.7, | 306.8, | 285.7, | -73.6,  | -16.3, |
| 5   | 13.7, | 275.8, | 314.0, | -86.2,  | -4.0,  | 6   | 13.7, | 236.4, | 332.7, | -96.1,  | 8.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -103.2, | 20.8,  | 8   | 13.7, | 138.4, | 339.6, | -107.1, | 32.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -110.0, | 45.0,  | 10  | 13.7, | 154.2, | 341.4, | -121.6, | 52.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -130.8, | 59.9,  | 12  | 13.7, | 248.8, | 328.4, | -136.0, | 65.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -137.0, | 69.2,  | 14  | 13.7, | 314.0, | 275.8, | -133.9, | 70.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.8, | 70.2,  | 16  | 13.7, | 341.3, | 189.9, | -115.7, | 67.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -101.9, | 62.7,  | 18  | 13.7, | 333.6, | 101.5, | -95.7,  | 56.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.8, | 49.0,  | 20  | 13.7, | 340.1, | 204.2, | -162.0, | 39.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -189.9, | 28.2,  | 22  | 13.7, | 306.8, | 285.7, | -212.1, | 16.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -227.8, | 4.0,   | 24  | 13.7, | 236.4, | 332.7, | -236.6, | -8.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -238.2, | -20.8, | 26  | 13.7, | 138.4, | 339.6, | -232.5, | -32.8, |
| 27  | 13.7, | 101.5, | 333.6, | -223.6, | -45.0, | 28  | 13.7, | 154.2, | 341.4, | -219.8, | -52.7, |
| 29  | 13.7, | 204.2, | 340.1, | -209.3, | -59.9, | 30  | 13.7, | 248.8, | 328.4, | -192.4, | -65.6, |
| 31  | 13.7, | 285.7, | 306.8, | -169.7, | -69.2, | 32  | 13.7, | 314.0, | 275.8, | -141.9, | -70.8, |
| 33  | 13.7, | 332.7, | 236.4, | -109.7, | -70.2, | 34  | 13.7, | 341.3, | 189.9, | -74.2,  | -67.5, |
| 35  | 13.7, | 339.6, | 138.4, | -36.4,  | -62.7, | 36  | 13.7, | 333.6, | 101.5, | -5.7,   | -56.8, |

SOURCE ID: IDLE12

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.1,  | -45.1, | 2   | 13.7, | 340.1, | 204.2, | -43.7,  | -35.5, |
| 3   | 13.7, | 328.4, | 248.8, | -60.9,  | -24.8, | 4   | 13.7, | 306.8, | 285.7, | -76.3,  | -13.3, |
| 5   | 13.7, | 275.8, | 314.0, | -89.3,  | -1.5,  | 6   | 13.7, | 236.4, | 332.7, | -99.6,  | 10.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -107.0, | 22.1,  | 8   | 13.7, | 138.4, | 339.6, | -111.0, | 33.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -114.0, | 44.9,  | 10  | 13.7, | 154.2, | 341.4, | -125.6, | 51.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -134.5, | 58.4,  | 12  | 13.7, | 248.8, | 328.4, | -139.4, | 63.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -140.1, | 66.6,  | 14  | 13.7, | 314.0, | 275.8, | -136.4, | 67.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -128.7, | 66.7,  | 16  | 13.7, | 341.3, | 189.9, | -117.0, | 63.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.5, | 58.8,  | 18  | 13.7, | 333.6, | 101.5, | -95.6,  | 52.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.0, | 45.1,  | 20  | 13.7, | 340.1, | 204.2, | -160.6, | 35.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -187.9, | 24.8,  | 22  | 13.7, | 306.8, | 285.7, | -209.4, | 13.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -224.7, | 1.5,   | 24  | 13.7, | 236.4, | 332.7, | -233.1, | -10.5, |
| 25  | 13.7, | 189.9, | 341.3, | -234.4, | -22.1, | 26  | 13.7, | 138.4, | 339.6, | -228.6, | -33.3, |
| 27  | 13.7, | 101.5, | 333.6, | -219.6, | -44.9, | 28  | 13.7, | 154.2, | 341.4, | -215.8, | -51.9, |
| 29  | 13.7, | 204.2, | 340.1, | -205.5, | -58.4, | 30  | 13.7, | 248.8, | 328.4, | -189.0, | -63.5, |
| 31  | 13.7, | 285.7, | 306.8, | -166.7, | -66.6, | 32  | 13.7, | 314.0, | 275.8, | -139.3, | -67.7, |
| 33  | 13.7, | 332.7, | 236.4, | -107.8, | -66.7, | 34  | 13.7, | 341.3, | 189.9, | -72.9,  | -63.7, |
| 35  | 13.7, | 339.6, | 138.4, | -35.8,  | -58.8, | 36  | 13.7, | 333.6, | 101.5, | -5.8,   | -52.8, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE13

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.7,  | -22.0, | 2   | 13.7, | 340.1, | 204.2, | -52.2,  | -13.5, |
| 3   | 13.7, | 328.4, | 248.8, | -73.1,  | -4.6,  | 4   | 13.7, | 306.8, | 285.7, | -91.8,  | 4.4,   |
| 5   | 13.7, | 275.8, | 314.0, | -107.7, | 13.3,  | 6   | 13.7, | 236.4, | 332.7, | -120.3, | 21.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -129.3, | 29.6,  | 8   | 13.7, | 138.4, | 339.6, | -134.3, | 36.9,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 9  | 13.7, | 101.5, | 333.6, | -137.6, | 44.4,  | 10 | 13.7, | 154.2, | 341.4, | -148.7, | 47.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -156.5, | 49.9,  | 12 | 13.7, | 248.8, | 328.4, | -159.6, | 51.2,  |
| 13 | 13.7, | 285.7, | 306.8, | -157.8, | 51.0,  | 14 | 13.7, | 314.0, | 275.8, | -151.2, | 49.3,  |
| 15 | 13.7, | 332.7, | 236.4, | -140.0, | 46.0,  | 16 | 13.7, | 341.3, | 189.9, | -124.6, | 41.4,  |
| 17 | 13.7, | 339.6, | 138.4, | -106.1, | 35.4,  | 18 | 13.7, | 333.6, | 101.5, | -95.1,  | 29.2,  |
| 19 | 13.7, | 341.4, | 154.2, | -124.4, | 22.0,  | 20 | 13.7, | 340.1, | 204.2, | -152.0, | 13.5,  |
| 21 | 13.7, | 328.4, | 248.8, | -175.6, | 4.6,   | 22 | 13.7, | 306.8, | 285.7, | -193.9, | -4.4,  |
| 23 | 13.7, | 275.8, | 314.0, | -206.3, | -13.3, | 24 | 13.7, | 236.4, | 332.7, | -212.4, | -21.8, |
| 25 | 13.7, | 189.9, | 341.3, | -212.0, | -29.6, | 26 | 13.7, | 138.4, | 339.6, | -205.2, | -36.9, |
| 27 | 13.7, | 101.5, | 333.6, | -196.0, | -44.4, | 28 | 13.7, | 154.2, | 341.4, | -192.7, | -47.3, |
| 29 | 13.7, | 204.2, | 340.1, | -183.6, | -49.9, | 30 | 13.7, | 248.8, | 328.4, | -168.8, | -51.2, |
| 31 | 13.7, | 285.7, | 306.8, | -149.0, | -51.0, | 32 | 13.7, | 314.0, | 275.8, | -124.6, | -49.3, |
| 33 | 13.7, | 332.7, | 236.4, | -96.4,  | -46.0, | 34 | 13.7, | 341.3, | 189.9, | -65.3,  | -41.4, |
| 35 | 13.7, | 339.6, | 138.4, | -32.2,  | -35.4, | 36 | 13.7, | 333.6, | 101.5, | -6.3,   | -29.2, |

SOURCE ID: IDLE14

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -30.6,  | -18.2, | 2   | 13.7, | 340.1, | 204.2, | -53.8,  | -9.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -75.3,  | -1.3,  | 4   | 13.7, | 306.8, | 285.7, | -94.5,  | 7.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -110.8, | 15.7,  | 6   | 13.7, | 236.4, | 332.7, | -123.8, | 23.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -133.1, | 30.8,  | 8   | 13.7, | 138.4, | 339.6, | -138.2, | 37.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -141.5, | 44.2,  | 10  | 13.7, | 154.2, | 341.4, | -152.6, | 46.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -160.2, | 48.4,  | 12  | 13.7, | 248.8, | 328.4, | -162.9, | 49.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -160.7, | 48.4,  | 14  | 13.7, | 314.0, | 275.8, | -153.6, | 46.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -141.8, | 42.5,  | 16  | 13.7, | 341.3, | 189.9, | -125.7, | 37.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -106.6, | 31.5,  | 18  | 13.7, | 333.6, | 101.5, | -94.9,  | 25.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -123.5, | 18.2,  | 20  | 13.7, | 340.1, | 204.2, | -150.5, | 9.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -173.5, | 1.3,   | 22  | 13.7, | 306.8, | 285.7, | -191.2, | -7.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -203.1, | -15.7, | 24  | 13.7, | 236.4, | 332.7, | -208.9, | -23.6, |
| 25  | 13.7, | 189.9, | 341.3, | -208.3, | -30.8, | 26  | 13.7, | 138.4, | 339.6, | -201.3, | -37.4, |
| 27  | 13.7, | 101.5, | 333.6, | -192.1, | -44.2, | 28  | 13.7, | 154.2, | 341.4, | -188.9, | -46.5, |
| 29  | 13.7, | 204.2, | 340.1, | -179.9, | -48.4, | 30  | 13.7, | 248.8, | 328.4, | -165.5, | -49.1, |
| 31  | 13.7, | 285.7, | 306.8, | -146.1, | -48.4, | 32  | 13.7, | 314.0, | 275.8, | -122.2, | -46.1, |
| 33  | 13.7, | 332.7, | 236.4, | -94.6,  | -42.5, | 34  | 13.7, | 341.3, | 189.9, | -64.1,  | -37.6, |
| 35  | 13.7, | 339.6, | 138.4, | -31.7,  | -31.5, | 36  | 13.7, | 333.6, | 101.5, | -6.5,   | -25.2, |

SOURCE ID: IDLE15

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -31.4,  | -14.2, | 2   | 13.7, | 340.1, | 204.2, | -55.2,  | -6.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -77.3,  | 2.1,   | 4   | 13.7, | 306.8, | 285.7, | -97.1,  | 10.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -114.0, | 18.2,  | 6   | 13.7, | 236.4, | 332.7, | -127.3, | 25.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -136.8, | 32.1,  | 8   | 13.7, | 138.4, | 339.6, | -142.2, | 38.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -145.5, | 44.1,  | 10  | 13.7, | 154.2, | 341.4, | -156.5, | 45.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -163.9, | 46.9,  | 12  | 13.7, | 248.8, | 328.4, | -166.3, | 47.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -163.7, | 45.7,  | 14  | 13.7, | 314.0, | 275.8, | -156.1, | 43.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -143.7, | 39.0,  | 16  | 13.7, | 341.3, | 189.9, | -127.0, | 33.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.2, | 27.6,  | 18  | 13.7, | 333.6, | 101.5, | -94.8,  | 21.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -122.8, | 14.2,  | 20  | 13.7, | 340.1, | 204.2, | -149.1, | 6.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -171.4, | -2.1,  | 22  | 13.7, | 306.8, | 285.7, | -188.6, | -10.3, |
| 23  | 13.7, | 275.8, | 314.0, | -200.0, | -18.2, | 24  | 13.7, | 236.4, | 332.7, | -205.4, | -25.5, |
| 25  | 13.7, | 189.9, | 341.3, | -204.5, | -32.1, | 26  | 13.7, | 138.4, | 339.6, | -197.4, | -38.0, |
| 27  | 13.7, | 101.5, | 333.6, | -188.1, | -44.1, | 28  | 13.7, | 154.2, | 341.4, | -184.9, | -45.7, |
| 29  | 13.7, | 204.2, | 340.1, | -176.2, | -46.9, | 30  | 13.7, | 248.8, | 328.4, | -162.1, | -47.0, |
| 31  | 13.7, | 285.7, | 306.8, | -143.1, | -45.7, | 32  | 13.7, | 314.0, | 275.8, | -119.7, | -43.0, |
| 33  | 13.7, | 332.7, | 236.4, | -92.7,  | -39.0, | 34  | 13.7, | 341.3, | 189.9, | -62.9,  | -33.8, |
| 35  | 13.7, | 339.6, | 138.4, | -31.1,  | -27.6, | 36  | 13.7, | 333.6, | 101.5, | -6.6,   | -21.3, |

SOURCE ID: IDLE16

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -26.5,  | -37.6, | 2   | 13.7, | 340.1, | 204.2, | -46.4,  | -28.3, |
| 3   | 13.7, | 328.4, | 248.8, | -64.8,  | -18.2, | 4   | 13.7, | 306.8, | 285.7, | -81.2,  | -7.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -95.2,  | 3.4,   | 6   | 13.7, | 236.4, | 332.7, | -106.3, | 14.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -114.2, | 24.6,  | 8   | 13.7, | 138.4, | 339.6, | -118.6, | 34.6,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 9  | 13.7, | 101.5, | 333.6, | -121.7, | 44.8,  | 10 | 13.7, | 154.2, | 341.4, | -133.1, | 50.5,  |
| 11 | 13.7, | 204.2, | 340.1, | -141.7, | 55.8,  | 12 | 13.7, | 248.8, | 328.4, | -146.0, | 59.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -145.9, | 61.6,  | 14 | 13.7, | 314.0, | 275.8, | -141.3, | 61.8,  |
| 15 | 13.7, | 332.7, | 236.4, | -132.4, | 60.0,  | 16 | 13.7, | 341.3, | 189.9, | -119.5, | 56.5,  |
| 17 | 13.7, | 339.6, | 138.4, | -103.8, | 51.2,  | 18 | 13.7, | 333.6, | 101.5, | -95.5,  | 45.1,  |
| 19 | 13.7, | 341.4, | 154.2, | -127.6, | 37.6,  | 20 | 13.7, | 340.1, | 204.2, | -157.9, | 28.3,  |
| 21 | 13.7, | 328.4, | 248.8, | -184.0, | 18.2,  | 22 | 13.7, | 306.8, | 285.7, | -204.5, | 7.5,   |
| 23 | 13.7, | 275.8, | 314.0, | -218.8, | -3.4,  | 24 | 13.7, | 236.4, | 332.7, | -226.4, | -14.2, |
| 25 | 13.7, | 189.9, | 341.3, | -227.1, | -24.6, | 26 | 13.7, | 138.4, | 339.6, | -221.0, | -34.6, |
| 27 | 13.7, | 101.5, | 333.6, | -211.9, | -44.8, | 28 | 13.7, | 154.2, | 341.4, | -208.3, | -50.5, |
| 29 | 13.7, | 204.2, | 340.1, | -198.4, | -55.8, | 30 | 13.7, | 248.8, | 328.4, | -182.4, | -59.6, |
| 31 | 13.7, | 285.7, | 306.8, | -160.9, | -61.6, | 32 | 13.7, | 314.0, | 275.8, | -134.5, | -61.8, |
| 33 | 13.7, | 332.7, | 236.4, | -104.0, | -60.0, | 34 | 13.7, | 341.3, | 189.9, | -70.4,  | -56.5, |
| 35 | 13.7, | 339.6, | 138.4, | -34.6,  | -51.2, | 36 | 13.7, | 333.6, | 101.5, | -5.9,   | -45.1, |


 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -27.4,  | -33.7, | 2   | 13.7, | 340.1, | 204.2, | -47.9,  | -24.6, |
| 3   | 13.7, | 328.4, | 248.8, | -67.0,  | -14.8, | 4   | 13.7, | 306.8, | 285.7, | -84.0,  | -4.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -98.4,  | 5.8,   | 6   | 13.7, | 236.4, | 332.7, | -109.9, | 16.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -118.0, | 25.8,  | 8   | 13.7, | 138.4, | 339.6, | -122.6, | 35.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -125.7, | 44.6,  | 10  | 13.7, | 154.2, | 341.4, | -137.0, | 49.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -145.4, | 54.2,  | 12  | 13.7, | 248.8, | 328.4, | -149.4, | 57.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -148.8, | 58.9,  | 14  | 13.7, | 314.0, | 275.8, | -143.7, | 58.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -134.3, | 56.4,  | 16  | 13.7, | 341.3, | 189.9, | -120.7, | 52.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.3, | 47.2,  | 18  | 13.7, | 333.6, | 101.5, | -95.3,  | 41.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.7, | 33.7,  | 20  | 13.7, | 340.1, | 204.2, | -156.3, | 24.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -181.8, | 14.8,  | 22  | 13.7, | 306.8, | 285.7, | -201.7, | 4.6,   |
| 23  | 13.7, | 275.8, | 314.0, | -215.5, | -5.8,  | 24  | 13.7, | 236.4, | 332.7, | -222.8, | -16.0, |
| 25  | 13.7, | 189.9, | 341.3, | -223.3, | -25.8, | 26  | 13.7, | 138.4, | 339.6, | -217.0, | -35.1, |
| 27  | 13.7, | 101.5, | 333.6, | -207.9, | -44.6, | 28  | 13.7, | 154.2, | 341.4, | -204.4, | -49.6, |
| 29  | 13.7, | 204.2, | 340.1, | -194.7, | -54.2, | 30  | 13.7, | 248.8, | 328.4, | -179.0, | -57.4, |
| 31  | 13.7, | 285.7, | 306.8, | -157.9, | -58.9, | 32  | 13.7, | 314.0, | 275.8, | -132.1, | -58.5, |
| 33  | 13.7, | 332.7, | 236.4, | -102.2, | -56.4, | 34  | 13.7, | 341.3, | 189.9, | -69.2,  | -52.6, |
| 35  | 13.7, | 339.6, | 138.4, | -34.1,  | -47.2, | 36  | 13.7, | 333.6, | 101.5, | -6.1,   | -41.1, |

SOURCE ID: IDLE18

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -28.2,  | -29.9, | 2   | 13.7, | 340.1, | 204.2, | -49.3,  | -21.1, |
| 3   | 13.7, | 328.4, | 248.8, | -68.9,  | -11.5, | 4   | 13.7, | 306.8, | 285.7, | -86.5,  | -1.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -101.4, | 8.2,   | 6   | 13.7, | 236.4, | 332.7, | -113.2, | 17.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -121.6, | 27.0,  | 8   | 13.7, | 138.4, | 339.6, | -126.3, | 35.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -129.5, | 44.6,  | 10  | 13.7, | 154.2, | 341.4, | -140.8, | 48.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -149.0, | 52.8,  | 12  | 13.7, | 248.8, | 328.4, | -152.7, | 55.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -151.7, | 56.4,  | 14  | 13.7, | 314.0, | 275.8, | -146.1, | 55.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -136.1, | 53.1,  | 16  | 13.7, | 341.3, | 189.9, | -122.0, | 49.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.9, | 43.4,  | 18  | 13.7, | 333.6, | 101.5, | -95.3,  | 37.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.0, | 29.9,  | 20  | 13.7, | 340.1, | 204.2, | -155.0, | 21.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -179.8, | 11.5,  | 22  | 13.7, | 306.8, | 285.7, | -199.2, | 1.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -212.6, | -8.2,  | 24  | 13.7, | 236.4, | 332.7, | -219.5, | -17.9, |
| 25  | 13.7, | 189.9, | 341.3, | -219.7, | -27.0, | 26  | 13.7, | 138.4, | 339.6, | -213.2, | -35.7, |
| 27  | 13.7, | 101.5, | 333.6, | -204.1, | -44.6, | 28  | 13.7, | 154.2, | 341.4, | -200.6, | -48.9, |
| 29  | 13.7, | 204.2, | 340.1, | -191.1, | -52.8, | 30  | 13.7, | 248.8, | 328.4, | -175.7, | -55.4, |
| 31  | 13.7, | 285.7, | 306.8, | -155.1, | -56.4, | 32  | 13.7, | 314.0, | 275.8, | -129.7, | -55.6, |

|    |       |        |        |         |        |    |       |        |        |        |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|--------|--------|
| 33 | 13.7, | 332.7, | 236.4, | -100.3, | -53.1, | 34 | 13.7, | 341.3, | 189.9, | -67.9, | -49.0, |
| 35 | 13.7, | 339.6, | 138.4, | -33.5,  | -43.4, | 36 | 13.7, | 333.6, | 101.5, | -6.2,  | -37.3, |

SOURCE ID: IDLE19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.0,  | -26.0, | 2   | 13.7, | 340.1, | 204.2, | -50.8,  | -17.3, |
| 3   | 13.7, | 328.4, | 248.8, | -71.0,  | -8.2,  | 4   | 13.7, | 306.8, | 285.7, | -89.1,  | 1.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -104.5, | 10.7,  | 6   | 13.7, | 236.4, | 332.7, | -116.8, | 19.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -125.4, | 28.3,  | 8   | 13.7, | 138.4, | 339.6, | -130.3, | 36.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -133.5, | 44.4,  | 10  | 13.7, | 154.2, | 341.4, | -144.7, | 48.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -152.7, | 51.3,  | 12  | 13.7, | 248.8, | 328.4, | -156.1, | 53.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -154.7, | 53.7,  | 14  | 13.7, | 314.0, | 275.8, | -148.6, | 52.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -138.0, | 49.6,  | 16  | 13.7, | 341.3, | 189.9, | -123.2, | 45.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -105.4, | 39.5,  | 18  | 13.7, | 333.6, | 101.5, | -95.1,  | 33.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -125.2, | 26.0,  | 20  | 13.7, | 340.1, | 204.2, | -153.5, | 17.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -177.7, | 8.2,   | 22  | 13.7, | 306.8, | 285.7, | -196.6, | -1.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -209.4, | -10.7, | 24  | 13.7, | 236.4, | 332.7, | -215.9, | -19.8, |
| 25  | 13.7, | 189.9, | 341.3, | -215.9, | -28.3, | 26  | 13.7, | 138.4, | 339.6, | -209.3, | -36.3, |
| 27  | 13.7, | 101.5, | 333.6, | -200.1, | -44.4, | 28  | 13.7, | 154.2, | 341.4, | -196.7, | -48.1, |
| 29  | 13.7, | 204.2, | 340.1, | -187.4, | -51.3, | 30  | 13.7, | 248.8, | 328.4, | -172.3, | -53.3, |
| 31  | 13.7, | 285.7, | 306.8, | -152.1, | -53.7, | 32  | 13.7, | 314.0, | 275.8, | -127.2, | -52.4, |
| 33  | 13.7, | 332.7, | 236.4, | -98.4,  | -49.6, | 34  | 13.7, | 341.3, | 189.9, | -66.7,  | -45.2, |
| 35  | 13.7, | 339.6, | 138.4, | -32.9,  | -39.5, | 36  | 13.7, | 333.6, | 101.5, | -6.3,   | -33.3, |

SOURCE ID: IDLE20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -36.1,  | 9.1,   | 2   | 13.7, | 340.1, | 204.2, | -63.9,  | 16.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.8,  | 22.4,  | 4   | 13.7, | 306.8, | 285.7, | -112.9, | 28.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -132.6, | 33.0,  | 6   | 13.7, | 236.4, | 332.7, | -148.3, | 36.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -159.5, | 39.7,  | 8   | 13.7, | 138.4, | 339.6, | -165.8, | 41.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -169.4, | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -179.8, | 41.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -186.1, | 38.2,  | 12  | 13.7, | 248.8, | 328.4, | -186.7, | 34.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -181.6, | 29.9,  | 14  | 13.7, | 314.0, | 275.8, | -170.9, | 24.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -155.1, | 18.1,  | 16  | 13.7, | 341.3, | 189.9, | -134.6, | 11.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.8, | 4.0,   | 18  | 13.7, | 333.6, | 101.5, | -94.2,  | -2.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -118.0, | -9.1,  | 20  | 13.7, | 340.1, | 204.2, | -140.3, | -16.0, |
| 21  | 13.7, | 328.4, | 248.8, | -159.0, | -22.4, | 22  | 13.7, | 306.8, | 285.7, | -172.8, | -28.2, |
| 23  | 13.7, | 275.8, | 314.0, | -181.4, | -33.0, | 24  | 13.7, | 236.4, | 332.7, | -184.4, | -36.9, |
| 25  | 13.7, | 189.9, | 341.3, | -181.9, | -39.7, | 26  | 13.7, | 138.4, | 339.6, | -173.8, | -41.6, |
| 27  | 13.7, | 101.5, | 333.6, | -164.2, | -43.5, | 28  | 13.7, | 154.2, | 341.4, | -161.6, | -41.0, |
| 29  | 13.7, | 204.2, | 340.1, | -154.0, | -38.2, | 30  | 13.7, | 248.8, | 328.4, | -141.8, | -34.6, |
| 31  | 13.7, | 285.7, | 306.8, | -125.2, | -29.9, | 32  | 13.7, | 314.0, | 275.8, | -104.8, | -24.4, |
| 33  | 13.7, | 332.7, | 236.4, | -81.3,  | -18.1, | 34  | 13.7, | 341.3, | 189.9, | -55.3,  | -11.2, |
| 35  | 13.7, | 339.6, | 138.4, | -27.6,  | -4.0,  | 36  | 13.7, | 333.6, | 101.5, | -7.2,   | 2.6,   |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*      \*\*\* 09:17:47

PAGE 47

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE21

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -37.0,  | 13.0, | 2   | 13.7, | 340.1, | 204.2, | -65.4,  | 19.7, |
| 3   | 13.7, | 328.4, | 248.8, | -91.9,  | 25.8, | 4   | 13.7, | 306.8, | 285.7, | -115.6, | 31.1, |
| 5   | 13.7, | 275.8, | 314.0, | -135.7, | 35.4, | 6   | 13.7, | 236.4, | 332.7, | -151.8, | 38.7, |
| 7   | 13.7, | 189.9, | 341.3, | -163.2, | 40.8, | 8   | 13.7, | 138.4, | 339.6, | -169.7, | 42.1, |
| 9   | 13.7, | 101.5, | 333.6, | -173.3, | 43.3, | 10  | 13.7, | 154.2, | 341.4, | -183.7, | 40.1, |
| 11  | 13.7, | 204.2, | 340.1, | -189.7, | 36.7, | 12  | 13.7, | 248.8, | 328.4, | -190.0, | 32.5, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -184.5, | 27.3,  | 14 | 13.7, | 314.0, | 275.8, | -173.3, | 21.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -157.0, | 14.6,  | 16 | 13.7, | 341.3, | 189.9, | -135.8, | 7.5,   |
| 17 | 13.7, | 339.6, | 138.4, | -111.3, | 0.1,   | 18 | 13.7, | 333.6, | 101.5, | -94.0,  | -6.5,  |
| 19 | 13.7, | 341.4, | 154.2, | -117.2, | -13.0, | 20 | 13.7, | 340.1, | 204.2, | -138.8, | -19.7, |
| 21 | 13.7, | 328.4, | 248.8, | -156.9, | -25.8, | 22 | 13.7, | 306.8, | 285.7, | -170.1, | -31.1, |
| 23 | 13.7, | 275.8, | 314.0, | -178.2, | -35.4, | 24 | 13.7, | 236.4, | 332.7, | -180.9, | -38.7, |
| 25 | 13.7, | 189.9, | 341.3, | -178.1, | -40.8, | 26 | 13.7, | 138.4, | 339.6, | -169.9, | -42.1, |
| 27 | 13.7, | 101.5, | 333.6, | -160.3, | -43.3, | 28 | 13.7, | 154.2, | 341.4, | -157.7, | -40.1, |
| 29 | 13.7, | 204.2, | 340.1, | -150.4, | -36.7, | 30 | 13.7, | 248.8, | 328.4, | -138.4, | -32.5, |
| 31 | 13.7, | 285.7, | 306.8, | -122.3, | -27.3, | 32 | 13.7, | 314.0, | 275.8, | -102.4, | -21.2, |
| 33 | 13.7, | 332.7, | 236.4, | -79.5,  | -14.6, | 34 | 13.7, | 341.3, | 189.9, | -54.1,  | -7.5,  |
| 35 | 13.7, | 339.6, | 138.4, | -27.1,  | -0.1,  | 36 | 13.7, | 333.6, | 101.5, | -7.4,   | 6.5,   |

SOURCE ID: IDLE22

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -37.8,  | 16.9,  | 2   | 13.7, | 340.1, | 204.2, | -66.9,  | 23.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.0,  | 29.2,  | 4   | 13.7, | 306.8, | 285.7, | -118.2, | 34.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -138.9, | 37.9,  | 6   | 13.7, | 236.4, | 332.7, | -155.3, | 40.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.0, | 42.1,  | 8   | 13.7, | 138.4, | 339.6, | -173.6, | 42.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -177.3, | 43.2,  | 10  | 13.7, | 154.2, | 341.4, | -187.6, | 39.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -193.4, | 35.2,  | 12  | 13.7, | 248.8, | 328.4, | -193.4, | 30.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -187.5, | 24.6,  | 14  | 13.7, | 314.0, | 275.8, | -175.8, | 18.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -158.9, | 11.1,  | 16  | 13.7, | 341.3, | 189.9, | -137.1, | 3.7,   |
| 17  | 13.7, | 339.6, | 138.4, | -111.9, | -3.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.0,  | -10.5, |
| 19  | 13.7, | 341.4, | 154.2, | -116.4, | -16.9, | 20  | 13.7, | 340.1, | 204.2, | -137.4, | -23.4, |
| 21  | 13.7, | 328.4, | 248.8, | -154.8, | -29.2, | 22  | 13.7, | 306.8, | 285.7, | -167.5, | -34.1, |
| 23  | 13.7, | 275.8, | 314.0, | -175.1, | -37.9, | 24  | 13.7, | 236.4, | 332.7, | -177.4, | -40.6, |
| 25  | 13.7, | 189.9, | 341.3, | -174.3, | -42.1, | 26  | 13.7, | 138.4, | 339.6, | -165.9, | -42.7, |
| 27  | 13.7, | 101.5, | 333.6, | -156.3, | -43.2, | 28  | 13.7, | 154.2, | 341.4, | -153.8, | -39.3, |
| 29  | 13.7, | 204.2, | 340.1, | -146.6, | -35.2, | 30  | 13.7, | 248.8, | 328.4, | -135.0, | -30.4, |
| 31  | 13.7, | 285.7, | 306.8, | -119.3, | -24.6, | 32  | 13.7, | 314.0, | 275.8, | -99.9,  | -18.1, |
| 33  | 13.7, | 332.7, | 236.4, | -77.6,  | -11.1, | 34  | 13.7, | 341.3, | 189.9, | -52.8,  | -3.7,  |
| 35  | 13.7, | 339.6, | 138.4, | -26.5,  | 3.8,   | 36  | 13.7, | 333.6, | 101.5, | -7.5,   | 10.5,  |

SOURCE ID: IDLE23

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -32.9,  | -6.5,  | 2   | 13.7, | 340.1, | 204.2, | -58.0,  | 1.2,   |
| 3   | 13.7, | 328.4, | 248.8, | -81.4,  | 8.9,   | 4   | 13.7, | 306.8, | 285.7, | -102.3, | 16.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -120.1, | 23.2,  | 6   | 13.7, | 236.4, | 332.7, | -134.3, | 29.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -144.3, | 34.6,  | 8   | 13.7, | 138.4, | 339.6, | -150.0, | 39.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -153.5, | 43.9,  | 10  | 13.7, | 154.2, | 341.4, | -164.2, | 44.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -171.3, | 44.1,  | 12  | 13.7, | 248.8, | 328.4, | -173.1, | 42.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -169.6, | 40.5,  | 14  | 13.7, | 314.0, | 275.8, | -161.1, | 36.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -147.6, | 32.1,  | 16  | 13.7, | 341.3, | 189.9, | -129.6, | 26.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -108.4, | 19.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.7,  | 13.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.2, | 6.5,   | 20  | 13.7, | 340.1, | 204.2, | -146.2, | -1.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -167.3, | -8.9,  | 22  | 13.7, | 306.8, | 285.7, | -183.4, | -16.3, |
| 23  | 13.7, | 275.8, | 314.0, | -193.8, | -23.2, | 24  | 13.7, | 236.4, | 332.7, | -198.4, | -29.4, |
| 25  | 13.7, | 189.9, | 341.3, | -197.0, | -34.6, | 26  | 13.7, | 138.4, | 339.6, | -189.6, | -39.3, |
| 27  | 13.7, | 101.5, | 333.6, | -180.1, | -44.0, | 28  | 13.7, | 154.2, | 341.4, | -177.2, | -44.2, |
| 29  | 13.7, | 204.2, | 340.1, | -168.8, | -44.1, | 30  | 13.7, | 248.8, | 328.4, | -155.3, | -42.9, |
| 31  | 13.7, | 285.7, | 306.8, | -137.1, | -40.5, | 32  | 13.7, | 314.0, | 275.8, | -114.7, | -36.9, |
| 33  | 13.7, | 332.7, | 236.4, | -88.9,  | -32.1, | 34  | 13.7, | 341.3, | 189.9, | -60.3,  | -26.3, |
| 35  | 13.7, | 339.6, | 138.4, | -29.9,  | -19.8, | 36  | 13.7, | 333.6, | 101.5, | -6.8,   | -13.3, |

SOURCE ID: IDLE24

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -33.8,  | -2.5, | 2   | 13.7, | 340.1, | 204.2, | -59.6,  | 4.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -83.6,  | 12.3, | 4   | 13.7, | 306.8, | 285.7, | -105.1, | 19.2, |
| 5   | 13.7, | 275.8, | 314.0, | -123.3, | 25.6, | 6   | 13.7, | 236.4, | 332.7, | -137.9, | 31.2, |
| 7   | 13.7, | 189.9, | 341.3, | -148.2, | 35.8, | 8   | 13.7, | 138.4, | 339.6, | -154.0, | 39.8, |
| 9   | 13.7, | 101.5, | 333.6, | -157.5, | 43.7, | 10  | 13.7, | 154.2, | 341.4, | -168.2, | 43.2, |
| 11  | 13.7, | 204.2, | 340.1, | -175.0, | 42.5, | 12  | 13.7, | 248.8, | 328.4, | -176.5, | 40.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -172.6, | 37.8,  | 14 | 13.7, | 314.0, | 275.8, | -163.5, | 33.6,  |
| 15 | 13.7, | 332.7, | 236.4, | -149.4, | 28.5,  | 16 | 13.7, | 341.3, | 189.9, | -130.8, | 22.5,  |
| 17 | 13.7, | 339.6, | 138.4, | -108.9, | 15.8,  | 18 | 13.7, | 333.6, | 101.5, | -94.5,  | 9.3,   |
| 19 | 13.7, | 341.4, | 154.2, | -120.3, | 2.5,   | 20 | 13.7, | 340.1, | 204.2, | -144.6, | -4.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -165.1, | -12.3, | 22 | 13.7, | 306.8, | 285.7, | -180.6, | -19.2, |
| 23 | 13.7, | 275.8, | 314.0, | -190.6, | -25.6, | 24 | 13.7, | 236.4, | 332.7, | -194.8, | -31.2, |
| 25 | 13.7, | 189.9, | 341.3, | -193.1, | -35.8, | 26 | 13.7, | 138.4, | 339.6, | -185.5, | -39.8, |
| 27 | 13.7, | 101.5, | 333.6, | -176.1, | -43.7, | 28 | 13.7, | 154.2, | 341.4, | -173.2, | -43.2, |
| 29 | 13.7, | 204.2, | 340.1, | -165.1, | -42.5, | 30 | 13.7, | 248.8, | 328.4, | -151.9, | -40.7, |
| 31 | 13.7, | 285.7, | 306.8, | -134.2, | -37.8, | 32 | 13.7, | 314.0, | 275.8, | -112.3, | -33.6, |
| 33 | 13.7, | 332.7, | 236.4, | -87.0,  | -28.5, | 34 | 13.7, | 341.3, | 189.9, | -59.1,  | -22.5, |
| 35 | 13.7, | 339.6, | 138.4, | -29.4,  | -15.8, | 36 | 13.7, | 333.6, | 101.5, | -7.0,   | -9.3,  |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:17:47

PAGE 48

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -34.5,  | 1.2,   | 2   | 13.7, | 340.1, | 204.2, | -61.0,  | 8.5,   |
| 3   | 13.7, | 328.4, | 248.8, | -85.6,  | 15.6,  | 4   | 13.7, | 306.8, | 285.7, | -107.6, | 22.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -126.3, | 28.0,  | 6   | 13.7, | 236.4, | 332.7, | -141.2, | 33.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -151.8, | 37.1,  | 8   | 13.7, | 138.4, | 339.6, | -157.8, | 40.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -161.3, | 43.7,  | 10  | 13.7, | 154.2, | 341.4, | -171.9, | 42.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -178.5, | 41.1,  | 12  | 13.7, | 248.8, | 328.4, | -179.7, | 38.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -175.5, | 35.3,  | 14  | 13.7, | 314.0, | 275.8, | -165.9, | 30.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -151.3, | 25.2,  | 16  | 13.7, | 341.3, | 189.9, | -132.0, | 18.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -109.5, | 12.0,  | 18  | 13.7, | 333.6, | 101.5, | -94.4,  | 5.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -119.6, | -1.2,  | 20  | 13.7, | 340.1, | 204.2, | -143.3, | -8.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -163.2, | -15.6, | 22  | 13.7, | 306.8, | 285.7, | -178.1, | -22.1, |
| 23  | 13.7, | 275.8, | 314.0, | -187.7, | -28.0, | 24  | 13.7, | 236.4, | 332.7, | -191.5, | -33.0, |
| 25  | 13.7, | 189.9, | 341.3, | -189.5, | -37.1, | 26  | 13.7, | 138.4, | 339.6, | -181.8, | -40.4, |
| 27  | 13.7, | 101.5, | 333.6, | -172.3, | -43.7, | 28  | 13.7, | 154.2, | 341.4, | -169.5, | -42.5, |
| 29  | 13.7, | 204.2, | 340.1, | -161.5, | -41.1, | 30  | 13.7, | 248.8, | 328.4, | -148.7, | -38.8, |
| 31  | 13.7, | 285.7, | 306.8, | -131.3, | -35.3, | 32  | 13.7, | 314.0, | 275.8, | -109.9, | -30.7, |
| 33  | 13.7, | 332.7, | 236.4, | -85.2,  | -25.2, | 34  | 13.7, | 341.3, | 189.9, | -57.9,  | -18.9, |
| 35  | 13.7, | 339.6, | 138.4, | -28.8,  | -12.0, | 36  | 13.7, | 333.6, | 101.5, | -7.0,   | -5.5,  |

SOURCE ID: IDLE26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -35.4,  | 5.1,   | 2   | 13.7, | 340.1, | 204.2, | -62.5,  | 12.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -87.7,  | 18.9,  | 4   | 13.7, | 306.8, | 285.7, | -110.2, | 25.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -129.5, | 30.5,  | 6   | 13.7, | 236.4, | 332.7, | -144.7, | 34.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -155.6, | 38.3,  | 8   | 13.7, | 138.4, | 339.6, | -161.7, | 40.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -165.3, | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -175.8, | 41.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -182.3, | 39.6,  | 12  | 13.7, | 248.8, | 328.4, | -183.1, | 36.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -178.5, | 32.6,  | 14  | 13.7, | 314.0, | 275.8, | -168.4, | 27.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -153.1, | 21.6,  | 16  | 13.7, | 341.3, | 189.9, | -133.3, | 15.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.1, | 8.0,   | 18  | 13.7, | 333.6, | 101.5, | -94.3,  | 1.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -118.8, | -5.1,  | 20  | 13.7, | 340.1, | 204.2, | -141.8, | -12.2, |
| 21  | 13.7, | 328.4, | 248.8, | -161.1, | -18.9, | 22  | 13.7, | 306.8, | 285.7, | -175.5, | -25.1, |
| 23  | 13.7, | 275.8, | 314.0, | -184.5, | -30.5, | 24  | 13.7, | 236.4, | 332.7, | -188.0, | -34.9, |
| 25  | 13.7, | 189.9, | 341.3, | -185.7, | -38.3, | 26  | 13.7, | 138.4, | 339.6, | -177.8, | -40.9, |
| 27  | 13.7, | 101.5, | 333.6, | -168.3, | -43.5, | 28  | 13.7, | 154.2, | 341.4, | -165.6, | -41.7, |
| 29  | 13.7, | 204.2, | 340.1, | -157.8, | -39.6, | 30  | 13.7, | 248.8, | 328.4, | -145.3, | -36.7, |
| 31  | 13.7, | 285.7, | 306.8, | -128.3, | -32.6, | 32  | 13.7, | 314.0, | 275.8, | -107.4, | -27.5, |
| 33  | 13.7, | 332.7, | 236.4, | -83.3,  | -21.6, | 34  | 13.7, | 341.3, | 189.9, | -56.6,  | -15.1, |
| 35  | 13.7, | 339.6, | 138.4, | -28.2,  | -8.0,  | 36  | 13.7, | 333.6, | 101.5, | -7.2,   | -1.5,  |

SOURCE ID: IDLE27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -42.3,  | 40.0,  | 2   | 13.7, | 340.1, | 204.2, | -75.4,  | 45.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -106.2, | 49.3,  | 4   | 13.7, | 306.8, | 285.7, | -133.7, | 51.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -157.2, | 52.7,  | 6   | 13.7, | 236.4, | 332.7, | -175.9, | 52.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -189.3, | 49.7,  | 8   | 13.7, | 138.4, | 339.6, | -196.9, | 46.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -200.8, | 42.7,  | 10  | 13.7, | 154.2, | 341.4, | -210.7, | 34.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -215.4, | 26.7,  | 12  | 13.7, | 248.8, | 328.4, | -213.5, | 18.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -205.2, | 9.1,   | 14  | 13.7, | 314.0, | 275.8, | -190.6, | -0.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -170.2, | -9.6,  | 16  | 13.7, | 341.3, | 189.9, | -144.6, | -18.6, |
| 17  | 13.7, | 339.6, | 138.4, | -115.5, | -27.1, | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | -34.0, |
| 19  | 13.7, | 341.4, | 154.2, | -111.8, | -40.0, | 20  | 13.7, | 340.1, | 204.2, | -128.8, | -45.3, |
| 21  | 13.7, | 328.4, | 248.8, | -142.6, | -49.3, | 22  | 13.7, | 306.8, | 285.7, | -152.0, | -51.8, |
| 23  | 13.7, | 275.8, | 314.0, | -156.8, | -52.7, | 24  | 13.7, | 236.4, | 332.7, | -156.8, | -52.0, |
| 25  | 13.7, | 189.9, | 341.3, | -152.0, | -49.7, | 26  | 13.7, | 138.4, | 339.6, | -142.7, | -46.3, |
| 27  | 13.7, | 101.5, | 333.6, | -132.8, | -42.7, | 28  | 13.7, | 154.2, | 341.4, | -130.7, | -34.7, |
| 29  | 13.7, | 204.2, | 340.1, | -124.7, | -26.7, | 30  | 13.7, | 248.8, | 328.4, | -114.9, | -18.2, |
| 31  | 13.7, | 285.7, | 306.8, | -101.6, | -9.1,  | 32  | 13.7, | 314.0, | 275.8, | -85.2,  | 0.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -66.2,  | 9.6,   | 34  | 13.7, | 341.3, | 189.9, | -45.3,  | 18.6,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.9,  | 27.1,  | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | 34.0,  |

SOURCE ID: IDLE28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -43.2,  | 43.8,  | 2   | 13.7, | 340.1, | 204.2, | -76.9,  | 49.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -108.3, | 52.6,  | 4   | 13.7, | 306.8, | 285.7, | -136.4, | 54.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -160.3, | 55.1,  | 6   | 13.7, | 236.4, | 332.7, | -179.4, | 53.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.0, | 50.9,  | 8   | 13.7, | 138.4, | 339.6, | -200.8, | 46.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -204.8, | 42.5,  | 10  | 13.7, | 154.2, | 341.4, | -214.5, | 33.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -219.0, | 25.2,  | 12  | 13.7, | 248.8, | 328.4, | -216.8, | 16.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -208.1, | 6.5,   | 14  | 13.7, | 314.0, | 275.8, | -193.0, | -3.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -172.0, | -13.1, | 16  | 13.7, | 341.3, | 189.9, | -145.8, | -22.4, |
| 17  | 13.7, | 339.6, | 138.4, | -116.0, | -31.0, | 18  | 13.7, | 333.6, | 101.5, | -93.3,  | -38.0, |
| 19  | 13.7, | 341.4, | 154.2, | -110.9, | -43.8, | 20  | 13.7, | 340.1, | 204.2, | -127.3, | -49.0, |
| 21  | 13.7, | 328.4, | 248.8, | -140.4, | -52.6, | 22  | 13.7, | 306.8, | 285.7, | -149.3, | -54.7, |
| 23  | 13.7, | 275.8, | 314.0, | -153.6, | -55.1, | 24  | 13.7, | 236.4, | 332.7, | -153.3, | -53.8, |
| 25  | 13.7, | 189.9, | 341.3, | -148.3, | -50.9, | 26  | 13.7, | 138.4, | 339.6, | -138.8, | -46.8, |
| 27  | 13.7, | 101.5, | 333.6, | -128.8, | -42.5, | 28  | 13.7, | 154.2, | 341.4, | -126.9, | -33.9, |
| 29  | 13.7, | 204.2, | 340.1, | -121.1, | -25.2, | 30  | 13.7, | 248.8, | 328.4, | -111.6, | -16.1, |
| 31  | 13.7, | 285.7, | 306.8, | -98.7,  | -6.5,  | 32  | 13.7, | 314.0, | 275.8, | -82.8,  | 3.4,   |
| 33  | 13.7, | 332.7, | 236.4, | -64.4,  | 13.1,  | 34  | 13.7, | 341.3, | 189.9, | -44.1,  | 22.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.4,  | 31.0,  | 36  | 13.7, | 333.6, | 101.5, | -8.2,   | 38.0,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE29

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -44.0,  | 47.8,  | 2   | 13.7, | 340.1, | 204.2, | -78.4,  | 52.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -110.4, | 56.0,  | 4   | 13.7, | 306.8, | 285.7, | -139.0, | 57.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -163.5, | 57.6,  | 6   | 13.7, | 236.4, | 332.7, | -182.9, | 55.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -196.8, | 52.1,  | 8   | 13.7, | 138.4, | 339.6, | -204.8, | 47.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -208.8, | 42.4,  | 10  | 13.7, | 154.2, | 341.4, | -218.5, | 33.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -222.7, | 23.7,  | 12  | 13.7, | 248.8, | 328.4, | -220.2, | 14.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -211.1, | 3.8,   | 14  | 13.7, | 314.0, | 275.8, | -195.5, | -6.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -173.9, | -16.6, | 16  | 13.7, | 341.3, | 189.9, | -147.1, | -26.2, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 17 | 13.7, | 339.6, | 138.4, | -116.6, | -35.0, | 18 | 13.7, | 333.6, | 101.5, | -93.2,  | -42.0, |
| 19 | 13.7, | 341.4, | 154.2, | -110.2, | -47.8, | 20 | 13.7, | 340.1, | 204.2, | -125.9, | -52.7, |
| 21 | 13.7, | 328.4, | 248.8, | -138.4, | -56.0, | 22 | 13.7, | 306.8, | 285.7, | -146.7, | -57.7, |
| 23 | 13.7, | 275.8, | 314.0, | -150.5, | -57.6, | 24 | 13.7, | 236.4, | 332.7, | -149.8, | -55.7, |
| 25 | 13.7, | 189.9, | 341.3, | -144.5, | -52.1, | 26 | 13.7, | 138.4, | 339.6, | -134.8, | -47.4, |
| 27 | 13.7, | 101.5, | 333.6, | -124.8, | -42.4, | 28 | 13.7, | 154.2, | 341.4, | -122.9, | -33.1, |
| 29 | 13.7, | 204.2, | 340.1, | -117.3, | -23.7, | 30 | 13.7, | 248.8, | 328.4, | -108.1, | -14.0, |
| 31 | 13.7, | 285.7, | 306.8, | -95.7,  | -3.8,  | 32 | 13.7, | 314.0, | 275.8, | -80.3,  | 6.5,   |
| 33 | 13.7, | 332.7, | 236.4, | -62.5,  | 16.6,  | 34 | 13.7, | 341.3, | 189.9, | -42.8,  | 26.2,  |
| 35 | 13.7, | 339.6, | 138.4, | -21.8,  | 35.0,  | 36 | 13.7, | 333.6, | 101.5, | -8.3,   | 42.0,  |

SOURCE ID: IDLE30

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -39.1,  | 24.4,  | 2   | 13.7, | 340.1, | 204.2, | -69.5,  | 30.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -97.8,  | 35.7,  | 4   | 13.7, | 306.8, | 285.7, | -123.1, | 39.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -144.7, | 42.8,  | 6   | 13.7, | 236.4, | 332.7, | -161.9, | 44.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -174.2, | 44.7,  | 8   | 13.7, | 138.4, | 339.6, | -181.1, | 44.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -184.9, | 43.2,  | 10  | 13.7, | 154.2, | 341.4, | -195.1, | 37.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -200.6, | 32.6,  | 12  | 13.7, | 248.8, | 328.4, | -199.9, | 26.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -193.2, | 19.7,  | 14  | 13.7, | 314.0, | 275.8, | -180.7, | 12.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -162.6, | 4.5,   | 16  | 13.7, | 341.3, | 189.9, | -139.6, | -3.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -113.1, | -11.3, | 18  | 13.7, | 333.6, | 101.5, | -93.9,  | -18.1, |
| 19  | 13.7, | 341.4, | 154.2, | -115.0, | -24.4, | 20  | 13.7, | 340.1, | 204.2, | -134.7, | -30.5, |
| 21  | 13.7, | 328.4, | 248.8, | -150.9, | -35.7, | 22  | 13.7, | 306.8, | 285.7, | -162.6, | -39.9, |
| 23  | 13.7, | 275.8, | 314.0, | -169.2, | -42.8, | 24  | 13.7, | 236.4, | 332.7, | -170.8, | -44.4, |
| 25  | 13.7, | 189.9, | 341.3, | -167.2, | -44.7, | 26  | 13.7, | 138.4, | 339.6, | -158.4, | -44.0, |
| 27  | 13.7, | 101.5, | 333.6, | -148.7, | -43.2, | 28  | 13.7, | 154.2, | 341.4, | -146.3, | -37.9, |
| 29  | 13.7, | 204.2, | 340.1, | -139.5, | -32.6, | 30  | 13.7, | 248.8, | 328.4, | -128.5, | -26.6, |
| 31  | 13.7, | 285.7, | 306.8, | -113.5, | -19.7, | 32  | 13.7, | 314.0, | 275.8, | -95.1,  | -12.3, |
| 33  | 13.7, | 332.7, | 236.4, | -73.8,  | -4.5,  | 34  | 13.7, | 341.3, | 189.9, | -50.3,  | 3.5,   |
| 35  | 13.7, | 339.6, | 138.4, | -25.2,  | 11.3,  | 36  | 13.7, | 333.6, | 101.5, | -7.5,   | 18.1,  |

SOURCE ID: IDLE31

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -40.1,  | 28.3,  | 2   | 13.7, | 340.1, | 204.2, | -71.1,  | 34.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -100.0, | 39.1,  | 4   | 13.7, | 306.8, | 285.7, | -125.9, | 42.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -148.0, | 45.2,  | 6   | 13.7, | 236.4, | 332.7, | -165.5, | 46.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -178.0, | 45.8,  | 8   | 13.7, | 138.4, | 339.6, | -185.1, | 44.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -188.9, | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -199.0, | 37.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -204.3, | 31.0,  | 12  | 13.7, | 248.8, | 328.4, | -203.3, | 24.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -196.2, | 16.9,  | 14  | 13.7, | 314.0, | 275.8, | -183.1, | 9.0,   |
| 15  | 13.7, | 332.7, | 236.4, | -164.4, | 0.8,   | 16  | 13.7, | 341.3, | 189.9, | -140.8, | -7.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -113.6, | -15.4, | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | -22.2, |
| 19  | 13.7, | 341.4, | 154.2, | -114.1, | -28.3, | 20  | 13.7, | 340.1, | 204.2, | -133.1, | -34.2, |
| 21  | 13.7, | 328.4, | 248.8, | -148.7, | -39.1, | 22  | 13.7, | 306.8, | 285.7, | -159.8, | -42.8, |
| 23  | 13.7, | 275.8, | 314.0, | -166.0, | -45.2, | 24  | 13.7, | 236.4, | 332.7, | -167.2, | -46.2, |
| 25  | 13.7, | 189.9, | 341.3, | -163.3, | -45.8, | 26  | 13.7, | 138.4, | 339.6, | -154.4, | -44.4, |
| 27  | 13.7, | 101.5, | 333.6, | -144.7, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -142.4, | -37.0, |
| 29  | 13.7, | 204.2, | 340.1, | -135.8, | -31.0, | 30  | 13.7, | 248.8, | 328.4, | -125.1, | -24.3, |
| 31  | 13.7, | 285.7, | 306.8, | -110.6, | -16.9, | 32  | 13.7, | 314.0, | 275.8, | -92.7,  | -9.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -72.0,  | -0.8,  | 34  | 13.7, | 341.3, | 189.9, | -49.1,  | 7.4,   |
| 35  | 13.7, | 339.6, | 138.4, | -24.7,  | 15.4,  | 36  | 13.7, | 333.6, | 101.5, | -7.8,   | 22.2,  |

SOURCE ID: IDLE32

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -40.8,  | 32.1, | 2   | 13.7, | 340.1, | 204.2, | -72.5,  | 37.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -102.0, | 42.4, | 4   | 13.7, | 306.8, | 285.7, | -128.4, | 45.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -150.9, | 47.6, | 6   | 13.7, | 236.4, | 332.7, | -168.8, | 48.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -181.6, | 47.1, | 8   | 13.7, | 138.4, | 339.6, | -188.9, | 45.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -192.8, | 42.9, | 10  | 13.7, | 154.2, | 341.4, | -202.8, | 36.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -207.8, | 29.7, | 12  | 13.7, | 248.8, | 328.4, | -206.6, | 22.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -199.1, | 14.5, | 14  | 13.7, | 314.0, | 275.8, | -185.5, | 6.1,   |
| 15  | 13.7, | 332.7, | 236.4, | -166.3, | -2.5, | 16  | 13.7, | 341.3, | 189.9, | -142.1, | -11.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 17 | 13.7, | 339.6, | 138.4, | -114.2, | -19.1, | 18 | 13.7, | 333.6, | 101.5, | -93.6,  | -26.0, |
| 19 | 13.7, | 341.4, | 154.2, | -113.4, | -32.1, | 20 | 13.7, | 340.1, | 204.2, | -131.8, | -37.8, |
| 21 | 13.7, | 328.4, | 248.8, | -146.8, | -42.4, | 22 | 13.7, | 306.8, | 285.7, | -157.3, | -45.7, |
| 23 | 13.7, | 275.8, | 314.0, | -163.1, | -47.6, | 24 | 13.7, | 236.4, | 332.7, | -163.9, | -48.1, |
| 25 | 13.7, | 189.9, | 341.3, | -159.7, | -47.1, | 26 | 13.7, | 138.4, | 339.6, | -150.7, | -45.1, |
| 27 | 13.7, | 101.5, | 333.6, | -140.8, | -42.9, | 28 | 13.7, | 154.2, | 341.4, | -138.6, | -36.3, |
| 29 | 13.7, | 204.2, | 340.1, | -132.2, | -29.7, | 30 | 13.7, | 248.8, | 328.4, | -121.8, | -22.4, |
| 31 | 13.7, | 285.7, | 306.8, | -107.7, | -14.5, | 32 | 13.7, | 314.0, | 275.8, | -90.3,  | -6.1,  |
| 33 | 13.7, | 332.7, | 236.4, | -70.1,  | 2.5,   | 34 | 13.7, | 341.3, | 189.9, | -47.8,  | 11.0,  |
| 35 | 13.7, | 339.6, | 138.4, | -24.1,  | 19.1,  | 36 | 13.7, | 333.6, | 101.5, | -7.8,   | 26.0,  |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:17:47

PAGE 50

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -41.6,  | 36.0,  | 2   | 13.7, | 340.1, | 204.2, | -74.0,  | 41.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -104.1, | 45.8,  | 4   | 13.7, | 306.8, | 285.7, | -131.1, | 48.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -154.0, | 50.1,  | 6   | 13.7, | 236.4, | 332.7, | -172.4, | 50.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -185.4, | 48.3,  | 8   | 13.7, | 138.4, | 339.6, | -192.9, | 45.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -196.7, | 42.8,  | 10  | 13.7, | 154.2, | 341.4, | -206.7, | 35.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -211.5, | 28.2,  | 12  | 13.7, | 248.8, | 328.4, | -210.0, | 20.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -202.1, | 11.8,  | 14  | 13.7, | 314.0, | 275.8, | -188.0, | 2.9,   |
| 15  | 13.7, | 332.7, | 236.4, | -168.2, | -6.0,  | 16  | 13.7, | 341.3, | 189.9, | -143.3, | -14.8, |
| 17  | 13.7, | 339.6, | 138.4, | -114.8, | -23.1, | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | -29.9, |
| 19  | 13.7, | 341.4, | 154.2, | -112.6, | -36.0, | 20  | 13.7, | 340.1, | 204.2, | -130.3, | -41.5, |
| 21  | 13.7, | 328.4, | 248.8, | -144.7, | -45.8, | 22  | 13.7, | 306.8, | 285.7, | -154.6, | -48.7, |
| 23  | 13.7, | 275.8, | 314.0, | -159.9, | -50.1, | 24  | 13.7, | 236.4, | 332.7, | -160.4, | -50.0, |
| 25  | 13.7, | 189.9, | 341.3, | -155.9, | -48.3, | 26  | 13.7, | 138.4, | 339.6, | -146.7, | -45.6, |
| 27  | 13.7, | 101.5, | 333.6, | -136.9, | -42.8, | 28  | 13.7, | 154.2, | 341.4, | -134.7, | -35.5, |
| 29  | 13.7, | 204.2, | 340.1, | -128.5, | -28.2, | 30  | 13.7, | 248.8, | 328.4, | -118.4, | -20.3, |
| 31  | 13.7, | 285.7, | 306.8, | -104.7, | -11.8, | 32  | 13.7, | 314.0, | 275.8, | -87.8,  | -2.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -68.2,  | 6.0,   | 34  | 13.7, | 341.3, | 189.9, | -46.6,  | 14.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -23.6,  | 23.1,  | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | 29.9,  |

SOURCE ID: IDLE34

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.8,  | 71.1,  | 2   | 13.7, | 340.1, | 204.2, | -87.1,  | 74.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -122.9, | 76.4,  | 4   | 13.7, | 306.8, | 285.7, | -154.9, | 75.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -182.1, | 72.4,  | 6   | 13.7, | 236.4, | 332.7, | -203.9, | 67.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -219.5, | 59.7,  | 8   | 13.7, | 138.4, | 339.6, | -228.3, | 50.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -232.6, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -241.8, | 28.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -244.9, | 15.0,  | 12  | 13.7, | 248.8, | 328.4, | -240.6, | 1.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -228.9, | -12.0, | 14  | 13.7, | 314.0, | 275.8, | -210.3, | -25.2, |
| 15  | 13.7, | 332.7, | 236.4, | -185.3, | -37.5, | 16  | 13.7, | 341.3, | 189.9, | -154.7, | -48.8, |
| 17  | 13.7, | 339.6, | 138.4, | -120.1, | -58.6, | 18  | 13.7, | 333.6, | 101.5, | -92.5,  | -65.8, |
| 19  | 13.7, | 341.4, | 154.2, | -105.4, | -71.1, | 20  | 13.7, | 340.1, | 204.2, | -117.1, | -74.9, |
| 21  | 13.7, | 328.4, | 248.8, | -125.9, | -76.4, | 22  | 13.7, | 306.8, | 285.7, | -130.9, | -75.5, |
| 23  | 13.7, | 275.8, | 314.0, | -131.8, | -72.4, | 24  | 13.7, | 236.4, | 332.7, | -128.8, | -67.1, |
| 25  | 13.7, | 189.9, | 341.3, | -121.9, | -59.7, | 26  | 13.7, | 138.4, | 339.6, | -111.2, | -50.9, |
| 27  | 13.7, | 101.5, | 333.6, | -101.0, | -41.8, | 28  | 13.7, | 154.2, | 341.4, | -99.6,  | -28.3, |
| 29  | 13.7, | 204.2, | 340.1, | -95.1,  | -15.0, | 30  | 13.7, | 248.8, | 328.4, | -87.8,  | -1.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -77.8,  | 12.0,  | 32  | 13.7, | 314.0, | 275.8, | -65.5,  | 25.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -51.1,  | 37.5,  | 34  | 13.7, | 341.3, | 189.9, | -35.2,  | 48.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.3,  | 58.6,  | 36  | 13.7, | 333.6, | 101.5, | -8.9,   | 65.8,  |

SOURCE ID: IDLE35

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -49.6,  | 75.0,  | 2   | 13.7, | 340.1, | 204.2, | -88.7,  | 78.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -125.0, | 79.7,  | 4   | 13.7, | 306.8, | 285.7, | -157.5, | 78.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -185.3, | 74.8,  | 6   | 13.7, | 236.4, | 332.7, | -207.4, | 68.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -223.2, | 60.9,  | 8   | 13.7, | 138.4, | 339.6, | -232.2, | 51.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -236.6, | 41.6,  | 10  | 13.7, | 154.2, | 341.4, | -245.7, | 27.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -248.6, | 13.5,  | 12  | 13.7, | 248.8, | 328.4, | -243.9, | -0.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -231.8, | -14.7, | 14  | 13.7, | 314.0, | 275.8, | -212.7, | -28.3, |
| 15  | 13.7, | 332.7, | 236.4, | -187.1, | -41.0, | 16  | 13.7, | 341.3, | 189.9, | -155.8, | -52.6, |
| 17  | 13.7, | 339.6, | 138.4, | -120.6, | -62.5, | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | -69.8, |
| 19  | 13.7, | 341.4, | 154.2, | -104.5, | -75.0, | 20  | 13.7, | 340.1, | 204.2, | -115.6, | -78.5, |
| 21  | 13.7, | 328.4, | 248.8, | -123.8, | -79.7, | 22  | 13.7, | 306.8, | 285.7, | -128.2, | -78.4, |
| 23  | 13.7, | 275.8, | 314.0, | -128.7, | -74.8, | 24  | 13.7, | 236.4, | 332.7, | -125.3, | -68.9, |
| 25  | 13.7, | 189.9, | 341.3, | -118.1, | -60.9, | 26  | 13.7, | 138.4, | 339.6, | -107.3, | -51.4, |
| 27  | 13.7, | 101.5, | 333.6, | -97.0,  | -41.6, | 28  | 13.7, | 154.2, | 341.4, | -95.7,  | -27.4, |
| 29  | 13.7, | 204.2, | 340.1, | -91.5,  | -13.5, | 30  | 13.7, | 248.8, | 328.4, | -84.5,  | 0.6,   |
| 31  | 13.7, | 285.7, | 306.8, | -74.9,  | 14.7,  | 32  | 13.7, | 314.0, | 275.8, | -63.1,  | 28.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -49.3,  | 41.0,  | 34  | 13.7, | 341.3, | 189.9, | -34.1,  | 52.6,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.8,  | 62.5,  | 36  | 13.7, | 333.6, | 101.5, | -9.1,   | 69.8,  |

SOURCE ID: IDLE36

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -50.4,  | 78.9,  | 2   | 13.7, | 340.1, | 204.2, | -90.1,  | 82.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -127.1, | 83.1,  | 4   | 13.7, | 306.8, | 285.7, | -160.2, | 81.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -188.4, | 77.3,  | 6   | 13.7, | 236.4, | 332.7, | -210.9, | 70.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -227.0, | 62.1,  | 8   | 13.7, | 138.4, | 339.6, | -236.2, | 52.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -240.5, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -249.6, | 26.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -252.3, | 12.0,  | 12  | 13.7, | 248.8, | 328.4, | -247.3, | -2.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -234.8, | -17.3, | 14  | 13.7, | 314.0, | 275.8, | -215.2, | -31.4, |
| 15  | 13.7, | 332.7, | 236.4, | -189.0, | -44.5, | 16  | 13.7, | 341.3, | 189.9, | -157.1, | -56.3, |
| 17  | 13.7, | 339.6, | 138.4, | -121.2, | -66.4, | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | -73.8, |
| 19  | 13.7, | 341.4, | 154.2, | -103.7, | -78.9, | 20  | 13.7, | 340.1, | 204.2, | -114.1, | -82.2, |
| 21  | 13.7, | 328.4, | 248.8, | -121.7, | -83.1, | 22  | 13.7, | 306.8, | 285.7, | -125.5, | -81.4, |
| 23  | 13.7, | 275.8, | 314.0, | -125.6, | -77.3, | 24  | 13.7, | 236.4, | 332.7, | -121.8, | -70.8, |
| 25  | 13.7, | 189.9, | 341.3, | -114.3, | -62.1, | 26  | 13.7, | 138.4, | 339.6, | -103.4, | -52.0, |
| 27  | 13.7, | 101.5, | 333.6, | -93.0,  | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -91.8,  | -26.7, |
| 29  | 13.7, | 204.2, | 340.1, | -87.8,  | -12.0, | 30  | 13.7, | 248.8, | 328.4, | -81.1,  | 2.7,   |
| 31  | 13.7, | 285.7, | 306.8, | -71.9,  | 17.3,  | 32  | 13.7, | 314.0, | 275.8, | -60.6,  | 31.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -47.4,  | 44.5,  | 34  | 13.7, | 341.3, | 189.9, | -32.8,  | 56.3,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.2,  | 66.4,  | 36  | 13.7, | 333.6, | 101.5, | -9.2,   | 73.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE37

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -45.6,  | 55.5,  | 2   | 13.7, | 340.1, | 204.2, | -81.3,  | 60.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -114.5, | 62.8,  | 4   | 13.7, | 306.8, | 285.7, | -144.3, | 63.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -169.7, | 62.5,  | 6   | 13.7, | 236.4, | 332.7, | -189.9, | 59.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -204.3, | 54.7,  | 8   | 13.7, | 138.4, | 339.6, | -212.6, | 48.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -216.7, | 42.2,  | 10  | 13.7, | 154.2, | 341.4, | -226.2, | 31.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -230.1, | 20.9,  | 12  | 13.7, | 248.8, | 328.4, | -227.0, | 9.9,   |
| 13  | 13.7, | 285.7, | 306.8, | -217.0, | -1.4,  | 14  | 13.7, | 314.0, | 275.8, | -200.4, | -12.7, |
| 15  | 13.7, | 332.7, | 236.4, | -177.7, | -23.5, | 16  | 13.7, | 341.3, | 189.9, | -149.6, | -33.7, |
| 17  | 13.7, | 339.6, | 138.4, | -117.7, | -42.8, | 18  | 13.7, | 333.6, | 101.5, | -93.0,  | -49.9, |
| 19  | 13.7, | 341.4, | 154.2, | -108.6, | -55.5, | 20  | 13.7, | 340.1, | 204.2, | -123.0, | -60.1, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 21 | 13.7, | 328.4, | 248.8, | -134.2, | -62.8, | 22 | 13.7, | 306.8, | 285.7, | -141.4, | -63.6, |
| 23 | 13.7, | 275.8, | 314.0, | -144.3, | -62.5, | 24 | 13.7, | 236.4, | 332.7, | -142.8, | -59.5, |
| 25 | 13.7, | 189.9, | 341.3, | -137.0, | -54.7, | 26 | 13.7, | 138.4, | 339.6, | -127.0, | -48.6, |
| 27 | 13.7, | 101.5, | 333.6, | -116.9, | -42.2, | 28 | 13.7, | 154.2, | 341.4, | -115.2, | -31.5, |
| 29 | 13.7, | 204.2, | 340.1, | -110.0, | -20.9, | 30 | 13.7, | 248.8, | 328.4, | -101.4, | -9.9,  |
| 31 | 13.7, | 285.7, | 306.8, | -89.8,  | 1.4,   | 32 | 13.7, | 314.0, | 275.8, | -75.4,  | 12.7,  |
| 33 | 13.7, | 332.7, | 236.4, | -58.7,  | 23.5,  | 34 | 13.7, | 341.3, | 189.9, | -40.3,  | 33.7,  |
| 35 | 13.7, | 339.6, | 138.4, | -20.6,  | 42.8,  | 36 | 13.7, | 333.6, | 101.5, | -8.5,   | 49.9,  |

SOURCE ID: IDLE38

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -46.5,  | 59.4,  | 2   | 13.7, | 340.1, | 204.2, | -82.9,  | 63.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.7, | 66.2,  | 4   | 13.7, | 306.8, | 285.7, | -147.0, | 66.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -172.9, | 64.9,  | 6   | 13.7, | 236.4, | 332.7, | -193.5, | 61.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.2, | 55.8,  | 8   | 13.7, | 138.4, | 339.6, | -216.6, | 49.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -220.7, | 42.0,  | 10  | 13.7, | 154.2, | 341.4, | -230.2, | 30.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -233.8, | 19.3,  | 12  | 13.7, | 248.8, | 328.4, | -230.4, | 7.7,   |
| 13  | 13.7, | 285.7, | 306.8, | -219.9, | -4.2,  | 14  | 13.7, | 314.0, | 275.8, | -202.8, | -15.9, |
| 15  | 13.7, | 332.7, | 236.4, | -179.5, | -27.1, | 16  | 13.7, | 341.3, | 189.9, | -150.8, | -37.5, |
| 17  | 13.7, | 339.6, | 138.4, | -118.2, | -46.8, | 18  | 13.7, | 333.6, | 101.5, | -92.8,  | -53.9, |
| 19  | 13.7, | 341.4, | 154.2, | -107.7, | -59.4, | 20  | 13.7, | 340.1, | 204.2, | -121.4, | -63.8, |
| 21  | 13.7, | 328.4, | 248.8, | -132.0, | -66.2, | 22  | 13.7, | 306.8, | 285.7, | -138.7, | -66.6, |
| 23  | 13.7, | 275.8, | 314.0, | -141.1, | -64.9, | 24  | 13.7, | 236.4, | 332.7, | -139.2, | -61.3, |
| 25  | 13.7, | 189.9, | 341.3, | -133.1, | -55.8, | 26  | 13.7, | 138.4, | 339.6, | -123.0, | -49.0, |
| 27  | 13.7, | 101.5, | 333.6, | -112.9, | -42.0, | 28  | 13.7, | 154.2, | 341.4, | -111.3, | -30.6, |
| 29  | 13.7, | 204.2, | 340.1, | -106.2, | -19.3, | 30  | 13.7, | 248.8, | 328.4, | -98.0,  | -7.7,  |
| 31  | 13.7, | 285.7, | 306.8, | -86.8,  | 4.2,   | 32  | 13.7, | 314.0, | 275.8, | -73.0,  | 15.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -56.9,  | 27.1,  | 34  | 13.7, | 341.3, | 189.9, | -39.1,  | 37.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -20.1,  | 46.8,  | 36  | 13.7, | 333.6, | 101.5, | -8.7,   | 53.9,  |

SOURCE ID: IDLE39

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -47.2,  | 63.2,  | 2   | 13.7, | 340.1, | 204.2, | -84.2,  | 67.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -118.7, | 69.5,  | 4   | 13.7, | 306.8, | 285.7, | -149.5, | 69.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -175.8, | 67.3,  | 6   | 13.7, | 236.4, | 332.7, | -196.8, | 63.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -211.8, | 57.1,  | 8   | 13.7, | 138.4, | 339.6, | -220.3, | 49.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -224.5, | 42.0,  | 10  | 13.7, | 154.2, | 341.4, | -233.9, | 29.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -237.4, | 17.9,  | 12  | 13.7, | 248.8, | 328.4, | -233.7, | 5.7,   |
| 13  | 13.7, | 285.7, | 306.8, | -222.8, | -6.7,  | 14  | 13.7, | 314.0, | 275.8, | -205.2, | -18.8, |
| 15  | 13.7, | 332.7, | 236.4, | -181.4, | -30.4, | 16  | 13.7, | 341.3, | 189.9, | -152.1, | -41.1, |
| 17  | 13.7, | 339.6, | 138.4, | -118.8, | -50.6, | 18  | 13.7, | 333.6, | 101.5, | -92.7,  | -57.7, |
| 19  | 13.7, | 341.4, | 154.2, | -107.0, | -63.2, | 20  | 13.7, | 340.1, | 204.2, | -120.0, | -67.3, |
| 21  | 13.7, | 328.4, | 248.8, | -130.1, | -69.5, | 22  | 13.7, | 306.8, | 285.7, | -136.2, | -69.5, |
| 23  | 13.7, | 275.8, | 314.0, | -138.1, | -67.3, | 24  | 13.7, | 236.4, | 332.7, | -135.9, | -63.2, |
| 25  | 13.7, | 189.9, | 341.3, | -129.5, | -57.1, | 26  | 13.7, | 138.4, | 339.6, | -119.2, | -49.7, |
| 27  | 13.7, | 101.5, | 333.6, | -109.1, | -42.0, | 28  | 13.7, | 154.2, | 341.4, | -107.5, | -29.9, |
| 29  | 13.7, | 204.2, | 340.1, | -102.7, | -17.9, | 30  | 13.7, | 248.8, | 328.4, | -94.7,  | -5.7,  |
| 31  | 13.7, | 285.7, | 306.8, | -83.9,  | 6.7,   | 32  | 13.7, | 314.0, | 275.8, | -70.5,  | 18.8,  |
| 33  | 13.7, | 332.7, | 236.4, | -55.0,  | 30.4,  | 34  | 13.7, | 341.3, | 189.9, | -37.8,  | 41.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -19.5,  | 50.6,  | 36  | 13.7, | 333.6, | 101.5, | -8.7,   | 57.7,  |

SOURCE ID: IDLE40

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.0,  | 67.1,  | 2   | 13.7, | 340.1, | 204.2, | -85.7,  | 71.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -120.8, | 72.8,  | 4   | 13.7, | 306.8, | 285.7, | -152.2, | 72.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -179.0, | 69.8,  | 6   | 13.7, | 236.4, | 332.7, | -200.3, | 65.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -215.6, | 58.3,  | 8   | 13.7, | 138.4, | 339.6, | -224.3, | 50.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -228.5, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -237.8, | 29.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -241.1, | 16.4,  | 12  | 13.7, | 248.8, | 328.4, | -237.1, | 3.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -225.8, | -9.3,  | 14  | 13.7, | 314.0, | 275.8, | -207.7, | -22.0, |
| 15  | 13.7, | 332.7, | 236.4, | -183.3, | -34.0, | 16  | 13.7, | 341.3, | 189.9, | -153.3, | -44.9, |
| 17  | 13.7, | 339.6, | 138.4, | -119.4, | -54.5, | 18  | 13.7, | 333.6, | 101.5, | -92.6,  | -61.7, |
| 19  | 13.7, | 341.4, | 154.2, | -106.1, | -67.1, | 20  | 13.7, | 340.1, | 204.2, | -118.5, | -71.1, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 21 | 13.7, | 328.4, | 248.8, | -128.0, | -72.8, | 22 | 13.7, | 306.8, | 285.7, | -133.5, | -72.4, |
| 23 | 13.7, | 275.8, | 314.0, | -135.0, | -69.8, | 24 | 13.7, | 236.4, | 332.7, | -132.4, | -65.1, |
| 25 | 13.7, | 189.9, | 341.3, | -125.7, | -58.3, | 26 | 13.7, | 138.4, | 339.6, | -115.3, | -50.2, |
| 27 | 13.7, | 101.5, | 333.6, | -105.1, | -41.8, | 28 | 13.7, | 154.2, | 341.4, | -103.6, | -29.1, |
| 29 | 13.7, | 204.2, | 340.1, | -99.0,  | -16.4, | 30 | 13.7, | 248.8, | 328.4, | -91.3,  | -3.6,  |
| 31 | 13.7, | 285.7, | 306.8, | -80.9,  | 9.3,   | 32 | 13.7, | 314.0, | 275.8, | -68.1,  | 22.0,  |
| 33 | 13.7, | 332.7, | 236.4, | -53.1,  | 34.0,  | 34 | 13.7, | 341.3, | 189.9, | -36.6,  | 44.9,  |
| 35 | 13.7, | 339.6, | 138.4, | -18.9,  | 54.5,  | 36 | 13.7, | 333.6, | 101.5, | -8.9,   | 61.7,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE41

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -55.0,  | 102.1,  | 2   | 13.7, | 340.1, | 204.2, | -98.7,  | 104.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -139.4, | 103.4,  | 4   | 13.7, | 306.8, | 285.7, | -175.8, | 99.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -206.9, | 92.1,   | 6   | 13.7, | 236.4, | 332.7, | -231.7, | 82.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -249.4, | 69.8,   | 8   | 13.7, | 138.4, | 339.6, | -259.6, | 55.6,   |
| 9   | 13.7, | 101.5, | 333.6, | -264.2, | 41.0,   | 10  | 13.7, | 154.2, | 341.4, | -272.8, | 22.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -274.4, | 3.4,    | 12  | 13.7, | 248.8, | 328.4, | -267.6, | -15.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -252.6, | -32.9,  | 14  | 13.7, | 314.0, | 275.8, | -230.0, | -49.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -200.4, | -65.3,  | 16  | 13.7, | 341.3, | 189.9, | -164.7, | -78.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -124.8, | -89.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | -97.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -99.1,  | -102.1, | 20  | 13.7, | 340.1, | 204.2, | -105.5, | -104.3, |
| 21  | 13.7, | 328.4, | 248.8, | -109.4, | -103.4, | 22  | 13.7, | 306.8, | 285.7, | -109.9, | -99.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -107.1, | -92.1,  | 24  | 13.7, | 236.4, | 332.7, | -101.0, | -82.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -91.9,  | -69.8,  | 26  | 13.7, | 138.4, | 339.6, | -79.9,  | -55.6,  |
| 27  | 13.7, | 101.5, | 333.6, | -69.3,  | -41.0,  | 28  | 13.7, | 154.2, | 341.4, | -68.6,  | -22.0,  |
| 29  | 13.7, | 204.2, | 340.1, | -65.7,  | -3.4,   | 30  | 13.7, | 248.8, | 328.4, | -60.8,  | 15.0,   |
| 31  | 13.7, | 285.7, | 306.8, | -54.1,  | 32.9,   | 32  | 13.7, | 314.0, | 275.8, | -45.8,  | 49.9,   |
| 33  | 13.7, | 332.7, | 236.4, | -36.0,  | 65.3,   | 34  | 13.7, | 341.3, | 189.9, | -25.2,  | 78.8,   |
| 35  | 13.7, | 339.6, | 138.4, | -13.6,  | 89.8,   | 36  | 13.7, | 333.6, | 101.5, | -9.7,   | 97.5,   |

SOURCE ID: IDLE42

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -55.9,  | 106.0,  | 2   | 13.7, | 340.1, | 204.2, | -100.2, | 108.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -141.5, | 106.7,  | 4   | 13.7, | 306.8, | 285.7, | -178.5, | 102.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -210.0, | 94.5,   | 6   | 13.7, | 236.4, | 332.7, | -235.2, | 84.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -253.2, | 71.0,   | 8   | 13.7, | 138.4, | 339.6, | -263.6, | 56.1,   |
| 9   | 13.7, | 101.5, | 333.6, | -268.2, | 40.8,   | 10  | 13.7, | 154.2, | 341.4, | -276.7, | 21.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -278.0, | 1.9,    | 12  | 13.7, | 248.8, | 328.4, | -270.9, | -17.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -255.5, | -35.6,  | 14  | 13.7, | 314.0, | 275.8, | -232.4, | -53.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -202.2, | -68.8,  | 16  | 13.7, | 341.3, | 189.9, | -165.9, | -82.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.3, | -93.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.6,  | -101.4, |
| 19  | 13.7, | 341.4, | 154.2, | -98.3,  | -106.0, | 20  | 13.7, | 340.1, | 204.2, | -104.0, | -108.0, |
| 21  | 13.7, | 328.4, | 248.8, | -107.3, | -106.7, | 22  | 13.7, | 306.8, | 285.7, | -107.2, | -102.2, |
| 23  | 13.7, | 275.8, | 314.0, | -104.0, | -94.5,  | 24  | 13.7, | 236.4, | 332.7, | -97.5,  | -84.0,  |
| 25  | 13.7, | 189.9, | 341.3, | -88.1,  | -71.0,  | 26  | 13.7, | 138.4, | 339.6, | -76.0,  | -56.1,  |
| 27  | 13.7, | 101.5, | 333.6, | -65.4,  | -40.8,  | 28  | 13.7, | 154.2, | 341.4, | -64.7,  | -21.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -62.0,  | -1.9,   | 30  | 13.7, | 248.8, | 328.4, | -57.5,  | 17.1,   |
| 31  | 13.7, | 285.7, | 306.8, | -51.2,  | 35.6,   | 32  | 13.7, | 314.0, | 275.8, | -43.4,  | 53.0,   |
| 33  | 13.7, | 332.7, | 236.4, | -34.2,  | 68.8,   | 34  | 13.7, | 341.3, | 189.9, | -24.0,  | 82.6,   |
| 35  | 13.7, | 339.6, | 138.4, | -13.1,  | 93.8,   | 36  | 13.7, | 333.6, | 101.5, | -9.9,   | 101.4,  |

SOURCE ID: IDLE43

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|-----|----|----|----|------|------|-----|----|----|----|------|------|
|-----|----|----|----|------|------|-----|----|----|----|------|------|

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 1  | 13.7, | 341.4, | 154.2, | -51.8,  | 86.5,  | 2  | 13.7, | 340.1, | 204.2, | -92.8,  | 89.5,  |
| 3  | 13.7, | 328.4, | 248.8, | -131.0, | 89.8,  | 4  | 13.7, | 306.8, | 285.7, | -165.2, | 87.3,  |
| 5  | 13.7, | 275.8, | 314.0, | -194.4, | 82.2,  | 6  | 13.7, | 236.4, | 332.7, | -217.7, | 74.6,  |
| 7  | 13.7, | 189.9, | 341.3, | -234.3, | 64.8,  | 8  | 13.7, | 138.4, | 339.6, | -243.9, | 53.3,  |
| 9  | 13.7, | 101.5, | 333.6, | -248.3, | 41.5,  | 10 | 13.7, | 154.2, | 341.4, | -257.2, | 25.2,  |
| 11 | 13.7, | 204.2, | 340.1, | -259.6, | 9.3,   | 12 | 13.7, | 248.8, | 328.4, | -254.0, | -6.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -240.7, | -22.4, | 14 | 13.7, | 314.0, | 275.8, | -220.1, | -37.4, |
| 15 | 13.7, | 332.7, | 236.4, | -192.9, | -51.3, | 16 | 13.7, | 341.3, | 189.9, | -159.7, | -63.7, |
| 17 | 13.7, | 339.6, | 138.4, | -122.5, | -74.1, | 18 | 13.7, | 333.6, | 101.5, | -92.2,  | -81.5, |
| 19 | 13.7, | 341.4, | 154.2, | -102.3, | -86.5, | 20 | 13.7, | 340.1, | 204.2, | -111.4, | -89.5, |
| 21 | 13.7, | 328.4, | 248.8, | -117.7, | -89.8, | 22 | 13.7, | 306.8, | 285.7, | -120.5, | -87.3, |
| 23 | 13.7, | 275.8, | 314.0, | -119.6, | -82.2, | 24 | 13.7, | 236.4, | 332.7, | -115.0, | -74.6, |
| 25 | 13.7, | 189.9, | 341.3, | -107.0, | -64.8, | 26 | 13.7, | 138.4, | 339.6, | -95.7,  | -53.3, |
| 27 | 13.7, | 101.5, | 333.6, | -85.3,  | -41.5, | 28 | 13.7, | 154.2, | 341.4, | -84.2,  | -25.2, |
| 29 | 13.7, | 204.2, | 340.1, | -80.5,  | -9.3,  | 30 | 13.7, | 248.8, | 328.4, | -74.4,  | 6.6,   |
| 31 | 13.7, | 285.7, | 306.8, | -66.0,  | 22.4,  | 32 | 13.7, | 314.0, | 275.8, | -55.6,  | 37.4,  |
| 33 | 13.7, | 332.7, | 236.4, | -43.6,  | 51.3,  | 34 | 13.7, | 341.3, | 189.9, | -30.2,  | 63.7,  |
| 35 | 13.7, | 339.6, | 138.4, | -15.9,  | 74.1,  | 36 | 13.7, | 333.6, | 101.5, | -9.2,   | 81.5,  |

SOURCE ID: IDLE44

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -52.7,  | 90.5,  | 2   | 13.7, | 340.1, | 204.2, | -94.4,  | 93.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -133.2, | 93.2,  | 4   | 13.7, | 306.8, | 285.7, | -168.0, | 90.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -197.6, | 84.7,  | 6   | 13.7, | 236.4, | 332.7, | -221.3, | 76.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -238.2, | 65.9,  | 8   | 13.7, | 138.4, | 339.6, | -247.9, | 53.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -252.4, | 41.2,  | 10  | 13.7, | 154.2, | 341.4, | -261.2, | 24.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -263.3, | 7.7,   | 12  | 13.7, | 248.8, | 328.4, | -257.4, | -8.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -243.7, | -25.1, | 14  | 13.7, | 314.0, | 275.8, | -222.6, | -40.6, |
| 15  | 13.7, | 332.7, | 236.4, | -194.7, | -54.9, | 16  | 13.7, | 341.3, | 189.9, | -160.9, | -67.5, |
| 17  | 13.7, | 339.6, | 138.4, | -123.0, | -78.1, | 18  | 13.7, | 333.6, | 101.5, | -92.0,  | -85.6, |
| 19  | 13.7, | 341.4, | 154.2, | -101.4, | -90.5, | 20  | 13.7, | 340.1, | 204.2, | -109.8, | -93.2, |
| 21  | 13.7, | 328.4, | 248.8, | -115.5, | -93.2, | 22  | 13.7, | 306.8, | 285.7, | -117.7, | -90.3, |
| 23  | 13.7, | 275.8, | 314.0, | -116.3, | -84.7, | 24  | 13.7, | 236.4, | 332.7, | -111.4, | -76.5, |
| 25  | 13.7, | 189.9, | 341.3, | -103.1, | -65.9, | 26  | 13.7, | 138.4, | 339.6, | -91.7,  | -53.8, |
| 27  | 13.7, | 101.5, | 333.6, | -81.2,  | -41.2, | 28  | 13.7, | 154.2, | 341.4, | -80.2,  | -24.3, |
| 29  | 13.7, | 204.2, | 340.1, | -76.8,  | -7.7,  | 30  | 13.7, | 248.8, | 328.4, | -71.0,  | 8.8,   |
| 31  | 13.7, | 285.7, | 306.8, | -63.1,  | 25.1,  | 32  | 13.7, | 314.0, | 275.8, | -53.2,  | 40.6,  |
| 33  | 13.7, | 332.7, | 236.4, | -41.8,  | 54.9,  | 34  | 13.7, | 341.3, | 189.9, | -29.0,  | 67.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -15.4,  | 78.1,  | 36  | 13.7, | 333.6, | 101.5, | -9.5,   | 85.6,  |

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 53

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE45

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -53.4,  | 94.2,  | 2   | 13.7, | 340.1, | 204.2, | -95.8,  | 96.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -135.2, | 96.5,  | 4   | 13.7, | 306.8, | 285.7, | -170.5, | 93.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -200.6, | 87.1,  | 6   | 13.7, | 236.4, | 332.7, | -224.6, | 78.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -241.8, | 67.2,  | 8   | 13.7, | 138.4, | 339.6, | -251.6, | 54.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -256.2, | 41.2,  | 10  | 13.7, | 154.2, | 341.4, | -264.9, | 23.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -266.8, | 6.4,   | 12  | 13.7, | 248.8, | 328.4, | -260.7, | -10.8, |
| 13  | 13.7, | 285.7, | 306.8, | -246.6, | -27.6, | 14  | 13.7, | 314.0, | 275.8, | -225.0, | -43.6, |
| 15  | 13.7, | 332.7, | 236.4, | -196.5, | -58.2, | 16  | 13.7, | 341.3, | 189.9, | -162.1, | -71.1, |
| 17  | 13.7, | 339.6, | 138.4, | -123.6, | -81.8, | 18  | 13.7, | 333.6, | 101.5, | -91.9,  | -89.4, |
| 19  | 13.7, | 341.4, | 154.2, | -100.7, | -94.2, | 20  | 13.7, | 340.1, | 204.2, | -108.5, | -96.8, |
| 21  | 13.7, | 328.4, | 248.8, | -113.6, | -96.5, | 22  | 13.7, | 306.8, | 285.7, | -115.2, | -93.2, |
| 23  | 13.7, | 275.8, | 314.0, | -113.4, | -87.1, | 24  | 13.7, | 236.4, | 332.7, | -108.1, | -78.3, |

|    |       |        |        |        |        |    |       |        |        |        |        |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|
| 25 | 13.7, | 189.9, | 341.3, | -99.5, | -67.2, | 26 | 13.7, | 138.4, | 339.6, | -87.9, | -54.4, |
| 27 | 13.7, | 101.5, | 333.6, | -77.4, | -41.2, | 28 | 13.7, | 154.2, | 341.4, | -76.5, | -23.6, |
| 29 | 13.7, | 204.2, | 340.1, | -73.2, | -6.4,  | 30 | 13.7, | 248.8, | 328.4, | -67.7, | 10.8,  |
| 31 | 13.7, | 285.7, | 306.8, | -60.2, | 27.6,  | 32 | 13.7, | 314.0, | 275.8, | -50.8, | 43.6,  |
| 33 | 13.7, | 332.7, | 236.4, | -39.9, | 58.2,  | 34 | 13.7, | 341.3, | 189.9, | -27.8, | 71.1,  |
| 35 | 13.7, | 339.6, | 138.4, | -14.8, | 81.9,  | 36 | 13.7, | 333.6, | 101.5, | -9.5,  | 89.4,  |

SOURCE ID: IDLE46

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -54.3,  | 98.1,  | 2   | 13.7, | 340.1, | 204.2, | -97.2,  | 100.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -137.3, | 99.9,  | 4   | 13.7, | 306.8, | 285.7, | -173.1, | 96.2,   |
| 5   | 13.7, | 275.8, | 314.0, | -203.7, | 89.5,  | 6   | 13.7, | 236.4, | 332.7, | -228.1, | 80.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -245.6, | 68.4,  | 8   | 13.7, | 138.4, | 339.6, | -255.6, | 55.0,   |
| 9   | 13.7, | 101.5, | 333.6, | -260.2, | 41.1,  | 10  | 13.7, | 154.2, | 341.4, | -268.8, | 22.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -270.6, | 4.9,   | 12  | 13.7, | 248.8, | 328.4, | -264.1, | -12.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -249.5, | -30.3, | 14  | 13.7, | 314.0, | 275.8, | -227.4, | -46.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -198.4, | -61.8, | 16  | 13.7, | 341.3, | 189.9, | -163.4, | -74.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -124.1, | -85.8, | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | -93.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -99.9,  | -98.1, | 20  | 13.7, | 340.1, | 204.2, | -107.0, | -100.5, |
| 21  | 13.7, | 328.4, | 248.8, | -111.5, | -99.9, | 22  | 13.7, | 306.8, | 285.7, | -112.6, | -96.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -110.2, | -89.5, | 24  | 13.7, | 236.4, | 332.7, | -104.6, | -80.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -95.7,  | -68.4, | 26  | 13.7, | 138.4, | 339.6, | -84.0,  | -55.0,  |
| 27  | 13.7, | 101.5, | 333.6, | -73.4,  | -41.1, | 28  | 13.7, | 154.2, | 341.4, | -72.6,  | -22.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -69.5,  | -4.9,  | 30  | 13.7, | 248.8, | 328.4, | -64.3,  | 12.9,   |
| 31  | 13.7, | 285.7, | 306.8, | -57.2,  | 30.3,  | 32  | 13.7, | 314.0, | 275.8, | -48.3,  | 46.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -38.0,  | 61.8,  | 34  | 13.7, | 341.3, | 189.9, | -26.5,  | 74.9,   |
| 35  | 13.7, | 339.6, | 138.4, | -14.2,  | 85.8,  | 36  | 13.7, | 333.6, | 101.5, | -9.7,   | 93.4,   |

SOURCE ID: TRU1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -18.2,  | -92.3,  | 2   | 13.7, | 340.1, | 204.2, | -28.7,  | -80.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -38.3,  | -66.8,  | 4   | 13.7, | 306.8, | 285.7, | -46.7,  | -50.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -53.7,  | -33.2,  | 6   | 13.7, | 236.4, | 332.7, | -59.1,  | -14.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -62.7,  | 4.4,    | 8   | 13.7, | 138.4, | 339.6, | -64.3,  | 23.7,   |
| 9   | 13.7, | 101.5, | 333.6, | -66.4,  | 43.5,   | 10  | 13.7, | 154.2, | 341.4, | -78.4,  | 58.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -89.3,  | 73.4,   | 12  | 13.7, | 248.8, | 328.4, | -97.5,  | 86.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -102.6, | 96.1,   | 14  | 13.7, | 314.0, | 275.8, | -104.7, | 103.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -103.6, | 107.3,  | 16  | 13.7, | 341.3, | 189.9, | -99.4,  | 108.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -92.9,  | 105.5,  | 18  | 13.7, | 333.6, | 101.5, | -94.2,  | 100.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -135.9, | 92.3,   | 20  | 13.7, | 340.1, | 204.2, | -175.6, | 80.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -210.5, | 66.8,   | 22  | 13.7, | 306.8, | 285.7, | -239.0, | 50.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -260.3, | 33.2,   | 24  | 13.7, | 236.4, | 332.7, | -273.6, | 14.6,   |
| 25  | 13.7, | 189.9, | 341.3, | -278.7, | -4.4,   | 26  | 13.7, | 138.4, | 339.6, | -275.2, | -23.7,  |
| 27  | 13.7, | 101.5, | 333.6, | -267.2, | -43.5,  | 28  | 13.7, | 154.2, | 341.4, | -263.0, | -58.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -250.8, | -73.4,  | 30  | 13.7, | 248.8, | 328.4, | -231.0, | -86.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -204.1, | -96.1,  | 32  | 13.7, | 314.0, | 275.8, | -171.1, | -103.3, |
| 33  | 13.7, | 332.7, | 236.4, | -132.8, | -107.3, | 34  | 13.7, | 341.3, | 189.9, | -90.5,  | -108.0, |
| 35  | 13.7, | 339.6, | 138.4, | -45.5,  | -105.5, | 36  | 13.7, | 333.6, | 101.5, | -7.2,   | -100.4, |

SOURCE ID: TRU2

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.9,  | -88.4, | 2   | 13.7, | 340.1, | 204.2, | -30.0,  | -77.0, |
| 3   | 13.7, | 328.4, | 248.8, | -40.2,  | -63.3, | 4   | 13.7, | 306.8, | 285.7, | -49.2,  | -47.6, |
| 5   | 13.7, | 275.8, | 314.0, | -56.7,  | -30.6, | 6   | 13.7, | 236.4, | 332.7, | -62.5,  | -12.6, |
| 7   | 13.7, | 189.9, | 341.3, | -66.4,  | 5.8,   | 8   | 13.7, | 138.4, | 339.6, | -68.2,  | 24.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -70.3,  | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -82.3,  | 58.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -93.0,  | 72.1,  | 12  | 13.7, | 248.8, | 328.4, | -100.9, | 84.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -105.7, | 93.6,  | 14  | 13.7, | 314.0, | 275.8, | -107.3, | 100.2, |
| 15  | 13.7, | 332.7, | 236.4, | -105.7, | 103.8, | 16  | 13.7, | 341.3, | 189.9, | -100.8, | 104.3, |
| 17  | 13.7, | 339.6, | 138.4, | -93.6,  | 101.5, | 18  | 13.7, | 333.6, | 101.5, | -94.3,  | 96.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -135.3, | 88.4,  | 20  | 13.7, | 340.1, | 204.2, | -174.2, | 77.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -208.5, | 63.3,  | 22  | 13.7, | 306.8, | 285.7, | -236.5, | 47.6,  |
| 23  | 13.7, | 275.8, | 314.0, | -257.2, | 30.6,  | 24  | 13.7, | 236.4, | 332.7, | -270.2, | 12.6,  |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 25 | 13.7, | 189.9, | 341.3, | -274.9, | -5.8,   | 26 | 13.7, | 138.4, | 339.6, | -271.3, | -24.4,  |
| 27 | 13.7, | 101.5, | 333.6, | -263.2, | -43.5,  | 28 | 13.7, | 154.2, | 341.4, | -259.1, | -58.2,  |
| 29 | 13.7, | 204.2, | 340.1, | -247.0, | -72.1,  | 30 | 13.7, | 248.8, | 328.4, | -227.5, | -84.1,  |
| 31 | 13.7, | 285.7, | 306.8, | -201.0, | -93.6,  | 32 | 13.7, | 314.0, | 275.8, | -168.5, | -100.2, |
| 33 | 13.7, | 332.7, | 236.4, | -130.8, | -103.8, | 34 | 13.7, | 341.3, | 189.9, | -89.1,  | -104.3, |
| 35 | 13.7, | 339.6, | 138.4, | -44.8,  | -101.5, | 36 | 13.7, | 333.6, | 101.5, | -7.2,   | -96.4,  |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU3

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -19.7,  | -84.5,  | 2   | 13.7, | 340.1, | 204.2, | -31.5,  | -73.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -42.3,  | -60.0,  | 4   | 13.7, | 306.8, | 285.7, | -51.8,  | -44.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -59.8,  | -28.2,  | 6   | 13.7, | 236.4, | 332.7, | -66.0,  | -10.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -70.1,  | 7.1,    | 8   | 13.7, | 138.4, | 339.6, | -72.1,  | 25.0,   |
| 9   | 13.7, | 101.5, | 333.6, | -74.3,  | 43.4,   | 10  | 13.7, | 154.2, | 341.4, | -86.2,  | 57.4,   |
| 11  | 13.7, | 204.2, | 340.1, | -96.7,  | 70.7,   | 12  | 13.7, | 248.8, | 328.4, | -104.2, | 82.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -108.6, | 91.0,   | 14  | 13.7, | 314.0, | 275.8, | -109.7, | 97.2,   |
| 15  | 13.7, | 332.7, | 236.4, | -107.5, | 100.4,  | 16  | 13.7, | 341.3, | 189.9, | -102.0, | 100.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -94.2,  | 97.7,   | 18  | 13.7, | 333.6, | 101.5, | -94.1,  | 92.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -134.5, | 84.5,   | 20  | 13.7, | 340.1, | 204.2, | -172.8, | 73.4,   |
| 21  | 13.7, | 328.4, | 248.8, | -206.5, | 60.0,   | 22  | 13.7, | 306.8, | 285.7, | -233.9, | 44.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -254.2, | 28.2,   | 24  | 13.7, | 236.4, | 332.7, | -266.7, | 10.7,   |
| 25  | 13.7, | 189.9, | 341.3, | -271.2, | -7.1,   | 26  | 13.7, | 138.4, | 339.6, | -267.4, | -25.0,  |
| 27  | 13.7, | 101.5, | 333.6, | -259.3, | -43.4,  | 28  | 13.7, | 154.2, | 341.4, | -255.2, | -57.4,  |
| 29  | 13.7, | 204.2, | 340.1, | -243.4, | -70.7,  | 30  | 13.7, | 248.8, | 328.4, | -224.2, | -82.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -198.1, | -91.0,  | 32  | 13.7, | 314.0, | 275.8, | -166.0, | -97.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -128.9, | -100.4, | 34  | 13.7, | 341.3, | 189.9, | -87.9,  | -100.6, |
| 35  | 13.7, | 339.6, | 138.4, | -44.2,  | -97.7,  | 36  | 13.7, | 333.6, | 101.5, | -7.3,   | -92.5,  |

SOURCE ID: TRU4

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -20.4,  | -80.8, | 2   | 13.7, | 340.1, | 204.2, | -32.9,  | -69.8, |
| 3   | 13.7, | 328.4, | 248.8, | -44.3,  | -56.7, | 4   | 13.7, | 306.8, | 285.7, | -54.4,  | -41.8, |
| 5   | 13.7, | 275.8, | 314.0, | -62.8,  | -25.7, | 6   | 13.7, | 236.4, | 332.7, | -69.3,  | -8.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -73.8,  | 8.3,   | 8   | 13.7, | 138.4, | 339.6, | -75.9,  | 25.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -78.1,  | 43.3,  | 10  | 13.7, | 154.2, | 341.4, | -90.0,  | 56.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -100.3, | 69.3,  | 12  | 13.7, | 248.8, | 328.4, | -107.5, | 80.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -111.5, | 88.5,  | 14  | 13.7, | 314.0, | 275.8, | -112.2, | 94.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -109.4, | 97.0,  | 16  | 13.7, | 341.3, | 189.9, | -103.2, | 96.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -94.8,  | 93.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.1,  | 88.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.7, | 80.8,  | 20  | 13.7, | 340.1, | 204.2, | -171.4, | 69.8,  |
| 21  | 13.7, | 328.4, | 248.8, | -204.5, | 56.7,  | 22  | 13.7, | 306.8, | 285.7, | -231.3, | 41.8,  |
| 23  | 13.7, | 275.8, | 314.0, | -251.2, | 25.7,  | 24  | 13.7, | 236.4, | 332.7, | -263.4, | 8.9,   |
| 25  | 13.7, | 189.9, | 341.3, | -267.6, | -8.3,  | 26  | 13.7, | 138.4, | 339.6, | -263.6, | -25.6, |
| 27  | 13.7, | 101.5, | 333.6, | -255.5, | -43.3, | 28  | 13.7, | 154.2, | 341.4, | -251.5, | -56.6, |
| 29  | 13.7, | 204.2, | 340.1, | -239.8, | -69.3, | 30  | 13.7, | 248.8, | 328.4, | -220.9, | -80.1, |
| 31  | 13.7, | 285.7, | 306.8, | -195.2, | -88.5, | 32  | 13.7, | 314.0, | 275.8, | -163.6, | -94.2, |
| 33  | 13.7, | 332.7, | 236.4, | -127.1, | -97.0, | 34  | 13.7, | 341.3, | 189.9, | -86.6,  | -96.9, |
| 35  | 13.7, | 339.6, | 138.4, | -43.6,  | -93.8, | 36  | 13.7, | 333.6, | 101.5, | -7.4,   | -88.7, |

SOURCE ID: TRU5

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.2, | -76.8, | 2   | 13.7, | 340.1, | 204.2, | -34.3, | -66.1, |
| 3   | 13.7, | 328.4, | 248.8, | -46.4, | -53.3, | 4   | 13.7, | 306.8, | 285.7, | -57.0, | -38.8, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 5  | 13.7, | 275.8, | 314.0, | -65.9,  | -23.3, | 6  | 13.7, | 236.4, | 332.7, | -72.8,  | -7.0,  |
| 7  | 13.7, | 189.9, | 341.3, | -77.5,  | 9.6,   | 8  | 13.7, | 138.4, | 339.6, | -79.9,  | 26.2,  |
| 9  | 13.7, | 101.5, | 333.6, | -82.1,  | 43.2,  | 10 | 13.7, | 154.2, | 341.4, | -93.8,  | 55.8,  |
| 11 | 13.7, | 204.2, | 340.1, | -104.0, | 67.8,  | 12 | 13.7, | 248.8, | 328.4, | -110.9, | 78.0,  |
| 13 | 13.7, | 285.7, | 306.8, | -114.5, | 85.8,  | 14 | 13.7, | 314.0, | 275.8, | -114.6, | 91.0,  |
| 15 | 13.7, | 332.7, | 236.4, | -111.2, | 93.5,  | 16 | 13.7, | 341.3, | 189.9, | -104.5, | 93.1,  |
| 17 | 13.7, | 339.6, | 138.4, | -95.3,  | 89.9,  | 18 | 13.7, | 333.6, | 101.5, | -94.0,  | 84.7,  |
| 19 | 13.7, | 341.4, | 154.2, | -132.9, | 76.8,  | 20 | 13.7, | 340.1, | 204.2, | -169.9, | 66.1,  |
| 21 | 13.7, | 328.4, | 248.8, | -202.4, | 53.3,  | 22 | 13.7, | 306.8, | 285.7, | -228.7, | 38.8,  |
| 23 | 13.7, | 275.8, | 314.0, | -248.0, | 23.3,  | 24 | 13.7, | 236.4, | 332.7, | -259.9, | 7.0,   |
| 25 | 13.7, | 189.9, | 341.3, | -263.8, | -9.6,  | 26 | 13.7, | 138.4, | 339.6, | -259.7, | -26.2, |
| 27 | 13.7, | 101.5, | 333.6, | -251.5, | -43.2, | 28 | 13.7, | 154.2, | 341.4, | -247.6, | -55.8, |
| 29 | 13.7, | 204.2, | 340.1, | -236.1, | -67.8, | 30 | 13.7, | 248.8, | 328.4, | -217.5, | -78.0, |
| 31 | 13.7, | 285.7, | 306.8, | -192.2, | -85.8, | 32 | 13.7, | 314.0, | 275.8, | -161.2, | -91.0, |
| 33 | 13.7, | 332.7, | 236.4, | -125.2, | -93.5, | 34 | 13.7, | 341.3, | 189.9, | -85.4,  | -93.1, |
| 35 | 13.7, | 339.6, | 138.4, | -43.0,  | -89.9, | 36 | 13.7, | 333.6, | 101.5, | -7.5,   | -84.7, |

SOURCE ID: TRU6

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.9,  | -69.1, | 2   | 13.7, | 340.1, | 204.2, | -37.3,  | -58.7, |
| 3   | 13.7, | 328.4, | 248.8, | -50.6,  | -46.5, | 4   | 13.7, | 306.8, | 285.7, | -62.3,  | -33.0, |
| 5   | 13.7, | 275.8, | 314.0, | -72.2,  | -18.4, | 6   | 13.7, | 236.4, | 332.7, | -79.9,  | -3.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -85.1,  | 12.0,  | 8   | 13.7, | 138.4, | 339.6, | -87.7,  | 27.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -90.0,  | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -101.6, | 54.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -111.3, | 64.8,  | 12  | 13.7, | 248.8, | 328.4, | -117.7, | 73.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -120.4, | 80.5,  | 14  | 13.7, | 314.0, | 275.8, | -119.5, | 84.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -115.0, | 86.5,  | 16  | 13.7, | 341.3, | 189.9, | -106.9, | 85.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -96.4,  | 82.0,  | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | 76.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -131.2, | 69.1,  | 20  | 13.7, | 340.1, | 204.2, | -166.9, | 58.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -198.2, | 46.5,  | 22  | 13.7, | 306.8, | 285.7, | -223.4, | 33.0,  |
| 23  | 13.7, | 275.8, | 314.0, | -241.8, | 18.4,  | 24  | 13.7, | 236.4, | 332.7, | -252.8, | 3.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -256.2, | -12.0, | 26  | 13.7, | 138.4, | 339.6, | -251.8, | -27.2, |
| 27  | 13.7, | 101.5, | 333.6, | -243.6, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -239.8, | -54.2, |
| 29  | 13.7, | 204.2, | 340.1, | -228.7, | -64.8, | 30  | 13.7, | 248.8, | 328.4, | -210.7, | -73.8, |
| 31  | 13.7, | 285.7, | 306.8, | -186.3, | -80.5, | 32  | 13.7, | 314.0, | 275.8, | -156.3, | -84.8, |
| 33  | 13.7, | 332.7, | 236.4, | -121.5, | -86.5, | 34  | 13.7, | 341.3, | 189.9, | -83.0,  | -85.6, |
| 35  | 13.7, | 339.6, | 138.4, | -41.9,  | -82.0, | 36  | 13.7, | 333.6, | 101.5, | -7.8,   | -76.8, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 55

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU7

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.6,  | -65.2, | 2   | 13.7, | 340.1, | 204.2, | -38.6,  | -54.9, |
| 3   | 13.7, | 328.4, | 248.8, | -52.6,  | -43.1, | 4   | 13.7, | 306.8, | 285.7, | -64.9,  | -29.9, |
| 5   | 13.7, | 275.8, | 314.0, | -75.2,  | -15.8, | 6   | 13.7, | 236.4, | 332.7, | -83.3,  | -1.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -88.8,  | 13.4,  | 8   | 13.7, | 138.4, | 339.6, | -91.6,  | 28.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -94.0,  | 43.0,  | 10  | 13.7, | 154.2, | 341.4, | -105.5, | 53.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -115.1, | 63.5,  | 12  | 13.7, | 248.8, | 328.4, | -121.1, | 71.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -123.5, | 78.0,  | 14  | 13.7, | 314.0, | 275.8, | -122.1, | 81.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -117.0, | 83.1,  | 16  | 13.7, | 341.3, | 189.9, | -108.3, | 81.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -97.1,  | 78.1,  | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | 72.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -130.6, | 65.2,  | 20  | 13.7, | 340.1, | 204.2, | -165.6, | 54.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -196.2, | 43.1,  | 22  | 13.7, | 306.8, | 285.7, | -220.8, | 29.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -238.7, | 15.8,  | 24  | 13.7, | 236.4, | 332.7, | -249.4, | 1.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -252.5, | -13.4, | 26  | 13.7, | 138.4, | 339.6, | -247.9, | -28.0, |
| 27  | 13.7, | 101.5, | 333.6, | -239.6, | -43.0, | 28  | 13.7, | 154.2, | 341.4, | -235.9, | -53.5, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 29 | 13.7, | 204.2, | 340.1, | -225.0, | -63.5, | 30 | 13.7, | 248.8, | 328.4, | -207.3, | -71.8, |
| 31 | 13.7, | 285.7, | 306.8, | -183.3, | -78.0, | 32 | 13.7, | 314.0, | 275.8, | -153.7, | -81.8, |
| 33 | 13.7, | 332.7, | 236.4, | -119.4, | -83.1, | 34 | 13.7, | 341.3, | 189.9, | -81.5,  | -81.8, |
| 35 | 13.7, | 339.6, | 138.4, | -41.2,  | -78.1, | 36 | 13.7, | 333.6, | 101.5, | -7.8,   | -72.8, |

SOURCE ID: TRU8

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.4,  | -61.3, | 2   | 13.7, | 340.1, | 204.2, | -40.1,  | -51.3, |
| 3   | 13.7, | 328.4, | 248.8, | -54.6,  | -39.7, | 4   | 13.7, | 306.8, | 285.7, | -67.5,  | -27.0, |
| 5   | 13.7, | 275.8, | 314.0, | -78.3,  | -13.4, | 6   | 13.7, | 236.4, | 332.7, | -86.7,  | 0.6,   |
| 7   | 13.7, | 189.9, | 341.3, | -92.5,  | 14.6,  | 8   | 13.7, | 138.4, | 339.6, | -95.5,  | 28.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -97.9,  | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -109.4, | 52.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -118.7, | 62.0,  | 12  | 13.7, | 248.8, | 328.4, | -124.5, | 69.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -126.4, | 75.4,  | 14  | 13.7, | 314.0, | 275.8, | -124.5, | 78.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -118.8, | 79.6,  | 16  | 13.7, | 341.3, | 189.9, | -109.6, | 78.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -97.7,  | 74.3,  | 18  | 13.7, | 333.6, | 101.5, | -93.6,  | 68.9,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.8, | 61.3,  | 20  | 13.7, | 340.1, | 204.2, | -164.2, | 51.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.1, | 39.7,  | 22  | 13.7, | 306.8, | 285.7, | -218.2, | 27.0,  |
| 23  | 13.7, | 275.8, | 314.0, | -235.7, | 13.4,  | 24  | 13.7, | 236.4, | 332.7, | -246.0, | -0.6,  |
| 25  | 13.7, | 189.9, | 341.3, | -248.8, | -14.6, | 26  | 13.7, | 138.4, | 339.6, | -244.0, | -28.5, |
| 27  | 13.7, | 101.5, | 333.6, | -235.7, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -232.0, | -52.7, |
| 29  | 13.7, | 204.2, | 340.1, | -221.4, | -62.0, | 30  | 13.7, | 248.8, | 328.4, | -203.9, | -69.8, |
| 31  | 13.7, | 285.7, | 306.8, | -180.3, | -75.4, | 32  | 13.7, | 314.0, | 275.8, | -151.3, | -78.7, |
| 33  | 13.7, | 332.7, | 236.4, | -117.6, | -79.6, | 34  | 13.7, | 341.3, | 189.9, | -80.3,  | -78.1, |
| 35  | 13.7, | 339.6, | 138.4, | -40.6,  | -74.3, | 36  | 13.7, | 333.6, | 101.5, | -7.9,   | -68.9, |

SOURCE ID: TRU9

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.1,  | -57.5, | 2   | 13.7, | 340.1, | 204.2, | -41.5,  | -47.7, |
| 3   | 13.7, | 328.4, | 248.8, | -56.6,  | -36.4, | 4   | 13.7, | 306.8, | 285.7, | -70.0,  | -24.1, |
| 5   | 13.7, | 275.8, | 314.0, | -81.3,  | -11.0, | 6   | 13.7, | 236.4, | 332.7, | -90.1,  | 2.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -96.2,  | 15.9,  | 8   | 13.7, | 138.4, | 339.6, | -99.3,  | 29.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -101.8, | 42.8,  | 10  | 13.7, | 154.2, | 341.4, | -113.2, | 52.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -122.3, | 60.6,  | 12  | 13.7, | 248.8, | 328.4, | -127.8, | 67.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -129.3, | 72.8,  | 14  | 13.7, | 314.0, | 275.8, | -126.9, | 75.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -120.7, | 76.2,  | 16  | 13.7, | 341.3, | 189.9, | -110.8, | 74.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -98.3,  | 70.4,  | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | 65.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.1, | 57.5,  | 20  | 13.7, | 340.1, | 204.2, | -162.8, | 47.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.1, | 36.4,  | 22  | 13.7, | 306.8, | 285.7, | -215.7, | 24.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -232.7, | 11.0,  | 24  | 13.7, | 236.4, | 332.7, | -242.6, | -2.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -245.1, | -15.9, | 26  | 13.7, | 138.4, | 339.6, | -240.2, | -29.1, |
| 27  | 13.7, | 101.5, | 333.6, | -231.8, | -42.8, | 28  | 13.7, | 154.2, | 341.4, | -228.2, | -52.0, |
| 29  | 13.7, | 204.2, | 340.1, | -217.8, | -60.6, | 30  | 13.7, | 248.8, | 328.4, | -200.6, | -67.8, |
| 31  | 13.7, | 285.7, | 306.8, | -177.4, | -72.8, | 32  | 13.7, | 314.0, | 275.8, | -148.8, | -75.7, |
| 33  | 13.7, | 332.7, | 236.4, | -115.7, | -76.2, | 34  | 13.7, | 341.3, | 189.9, | -79.1,  | -74.5, |
| 35  | 13.7, | 339.6, | 138.4, | -40.0,  | -70.4, | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | -65.0, |

SOURCE ID: TRU10

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.9,  | -53.6, | 2   | 13.7, | 340.1, | 204.2, | -43.0,  | -44.0, |
| 3   | 13.7, | 328.4, | 248.8, | -58.7,  | -33.0, | 4   | 13.7, | 306.8, | 285.7, | -72.7,  | -21.1, |
| 5   | 13.7, | 275.8, | 314.0, | -84.4,  | -8.5,  | 6   | 13.7, | 236.4, | 332.7, | -93.6,  | 4.4,   |
| 7   | 13.7, | 189.9, | 341.3, | -100.0, | 17.1,  | 8   | 13.7, | 138.4, | 339.6, | -103.3, | 29.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -105.8, | 42.7,  | 10  | 13.7, | 154.2, | 341.4, | -117.1, | 51.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -126.0, | 59.2,  | 12  | 13.7, | 248.8, | 328.4, | -131.1, | 65.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -132.3, | 70.2,  | 14  | 13.7, | 314.0, | 275.8, | -129.4, | 72.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -122.6, | 72.7,  | 16  | 13.7, | 341.3, | 189.9, | -112.1, | 70.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -98.9,  | 66.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.4,  | 61.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -128.2, | 53.6,  | 20  | 13.7, | 340.1, | 204.2, | -161.3, | 44.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -190.0, | 33.0,  | 22  | 13.7, | 306.8, | 285.7, | -213.0, | 21.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -229.5, | 8.5,   | 24  | 13.7, | 236.4, | 332.7, | -239.1, | -4.4,  |
| 25  | 13.7, | 189.9, | 341.3, | -241.3, | -17.1, | 26  | 13.7, | 138.4, | 339.6, | -236.3, | -29.7, |
| 27  | 13.7, | 101.5, | 333.6, | -227.8, | -42.7, | 28  | 13.7, | 154.2, | 341.4, | -224.3, | -51.2, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 29 | 13.7, | 204.2, | 340.1, | -214.1, | -59.2, | 30 | 13.7, | 248.8, | 328.4, | -197.2, | -65.7, |
| 31 | 13.7, | 285.7, | 306.8, | -174.5, | -70.2, | 32 | 13.7, | 314.0, | 275.8, | -146.4, | -72.5, |
| 33 | 13.7, | 332.7, | 236.4, | -113.8, | -72.7, | 34 | 13.7, | 341.3, | 189.9, | -77.8,  | -70.7, |
| 35 | 13.7, | 339.6, | 138.4, | -39.5,  | -66.5, | 36 | 13.7, | 333.6, | 101.5, | -8.1,   | -61.0, |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***      09:17:47

```

PAGE 56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU11

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -26.8,  | -49.7, | 2   | 13.7, | 340.1, | 204.2, | -44.5,  | -40.3, |
| 3   | 13.7, | 328.4, | 248.8, | -60.9,  | -29.7, | 4   | 13.7, | 306.8, | 285.7, | -75.4,  | -18.1, |
| 5   | 13.7, | 275.8, | 314.0, | -87.7,  | -6.0,  | 6   | 13.7, | 236.4, | 332.7, | -97.2,  | 6.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -103.8, | 18.3,  | 8   | 13.7, | 138.4, | 339.6, | -107.3, | 30.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -109.8, | 42.4,  | 10  | 13.7, | 154.2, | 341.4, | -121.0, | 50.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -129.8, | 57.6,  | 12  | 13.7, | 248.8, | 328.4, | -134.6, | 63.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -135.2, | 67.4,  | 14  | 13.7, | 314.0, | 275.8, | -131.9, | 69.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -124.4, | 69.1,  | 16  | 13.7, | 341.3, | 189.9, | -113.2, | 66.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.4,  | 62.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.2,  | 57.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.3, | 49.7,  | 20  | 13.7, | 340.1, | 204.2, | -159.7, | 40.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -187.8, | 29.7,  | 22  | 13.7, | 306.8, | 285.7, | -210.3, | 18.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -226.3, | 6.0,   | 24  | 13.7, | 236.4, | 332.7, | -235.5, | -6.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -237.5, | -18.3, | 26  | 13.7, | 138.4, | 339.6, | -232.3, | -30.2, |
| 27  | 13.7, | 101.5, | 333.6, | -223.8, | -42.4, | 28  | 13.7, | 154.2, | 341.4, | -220.4, | -50.3, |
| 29  | 13.7, | 204.2, | 340.1, | -210.3, | -57.6, | 30  | 13.7, | 248.8, | 328.4, | -193.9, | -63.5, |
| 31  | 13.7, | 285.7, | 306.8, | -171.5, | -67.4, | 32  | 13.7, | 314.0, | 275.8, | -143.9, | -69.3, |
| 33  | 13.7, | 332.7, | 236.4, | -112.0, | -69.1, | 34  | 13.7, | 341.3, | 189.9, | -76.6,  | -66.8, |
| 35  | 13.7, | 339.6, | 138.4, | -39.0,  | -62.5, | 36  | 13.7, | 333.6, | 101.5, | -8.3,   | -57.0, |

SOURCE ID: TRU12

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -27.6,  | -45.7, | 2   | 13.7, | 340.1, | 204.2, | -46.0,  | -36.5, |
| 3   | 13.7, | 328.4, | 248.8, | -63.0,  | -26.2, | 4   | 13.7, | 306.8, | 285.7, | -78.1,  | -15.1, |
| 5   | 13.7, | 275.8, | 314.0, | -90.8,  | -3.5,  | 6   | 13.7, | 236.4, | 332.7, | -100.7, | 8.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -107.6, | 19.6,  | 8   | 13.7, | 138.4, | 339.6, | -111.3, | 30.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -113.8, | 42.4,  | 10  | 13.7, | 154.2, | 341.4, | -125.0, | 49.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -133.5, | 56.2,  | 12  | 13.7, | 248.8, | 328.4, | -138.0, | 61.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -138.3, | 64.8,  | 14  | 13.7, | 314.0, | 275.8, | -134.4, | 66.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.4, | 65.6,  | 16  | 13.7, | 341.3, | 189.9, | -114.6, | 63.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -100.0, | 58.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.1,  | 52.9,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.6, | 45.7,  | 20  | 13.7, | 340.1, | 204.2, | -158.3, | 36.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -185.8, | 26.2,  | 22  | 13.7, | 306.8, | 285.7, | -207.6, | 15.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -223.2, | 3.5,   | 24  | 13.7, | 236.4, | 332.7, | -232.0, | -8.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -233.7, | -19.6, | 26  | 13.7, | 138.4, | 339.6, | -228.3, | -30.9, |
| 27  | 13.7, | 101.5, | 333.6, | -219.8, | -42.4, | 28  | 13.7, | 154.2, | 341.4, | -216.4, | -49.5, |
| 29  | 13.7, | 204.2, | 340.1, | -206.6, | -56.2, | 30  | 13.7, | 248.8, | 328.4, | -190.4, | -61.4, |
| 31  | 13.7, | 285.7, | 306.8, | -168.4, | -64.8, | 32  | 13.7, | 314.0, | 275.8, | -141.4, | -66.2, |
| 33  | 13.7, | 332.7, | 236.4, | -110.0, | -65.6, | 34  | 13.7, | 341.3, | 189.9, | -75.3,  | -63.0, |
| 35  | 13.7, | 339.6, | 138.4, | -38.3,  | -58.5, | 36  | 13.7, | 333.6, | 101.5, | -8.3,   | -52.9, |

SOURCE ID: TRU13

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.3,  | -38.2, | 2   | 13.7, | 340.1, | 204.2, | -49.0,  | -29.4, |
| 3   | 13.7, | 328.4, | 248.8, | -67.2,  | -19.7, | 4   | 13.7, | 306.8, | 285.7, | -83.3,  | -9.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -96.9,  | 1.2,   | 6   | 13.7, | 236.4, | 332.7, | -107.6, | 11.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -115.0, | 21.9,  | 8   | 13.7, | 138.4, | 339.6, | -119.0, | 31.8,  |

SOURCE ID: TRU14

09:17:47

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU15

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -30.7,  | -30.4, | 2   | 13.7, | 340.1, | 204.2, | -51.7,  | -22.0, |
| 3   | 13.7, | 328.4, | 248.8, | -71.2,  | -12.9, | 4   | 13.7, | 306.8, | 285.7, | -88.4,  | -3.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -103.0, | 6.2,   | 6   | 13.7, | 236.4, | 332.7, | -114.5, | 15.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -122.5, | 24.6,  | 8   | 13.7, | 138.4, | 339.6, | -126.7, | 33.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -129.5, | 41.9,  | 10  | 13.7, | 154.2, | 341.4, | -140.3, | 46.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -148.0, | 50.4,  | 12  | 13.7, | 248.8, | 328.4, | -151.3, | 53.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -150.0, | 54.4,  | 14  | 13.7, | 314.0, | 275.8, | -144.1, | 53.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -133.8, | 51.9,  | 16  | 13.7, | 341.3, | 189.9, | -119.5, | 48.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.3, | 43.1,  | 18  | 13.7, | 333.6, | 101.5, | -92.7,  | 37.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -123.4, | 30.4,  | 20  | 13.7, | 340.1, | 204.2, | -152.5, | 22.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -177.6, | 12.9,  | 22  | 13.7, | 306.8, | 285.7, | -197.3, | 3.4,   |
| 23  | 13.7, | 275.8, | 314.0, | -210.9, | -6.2,  | 24  | 13.7, | 236.4, | 332.7, | -218.2, | -15.6, |
| 25  | 13.7, | 189.9, | 341.3, | -218.9, | -24.6, | 26  | 13.7, | 138.4, | 339.6, | -212.8, | -33.1, |
| 27  | 13.7, | 101.5, | 333.6, | -204.1, | -41.9, | 28  | 13.7, | 154.2, | 341.4, | -201.2, | -46.3, |
| 29  | 13.7, | 204.2, | 340.1, | -192.0, | -50.4, | 30  | 13.7, | 248.8, | 328.4, | -177.1, | -53.2, |
| 31  | 13.7, | 285.7, | 306.8, | -156.8, | -54.4, | 32  | 13.7, | 314.0, | 275.8, | -131.7, | -53.9, |

|    |       |        |        |         |        |    |       |        |        |        |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|--------|--------|
| 33 | 13.7, | 332.7, | 236.4, | -102.6, | -51.9, | 34 | 13.7, | 341.3, | 189.9, | -70.4, | -48.2, |
| 35 | 13.7, | 339.6, | 138.4, | -36.1,  | -43.1, | 36 | 13.7, | 333.6, | 101.5, | -8.8,  | -37.3, |

SOURCE ID: TRU16

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -31.5,  | -26.7, | 2   | 13.7, | 340.1, | 204.2, | -53.1,  | -18.4, |
| 3   | 13.7, | 328.4, | 248.8, | -73.2,  | -9.6,  | 4   | 13.7, | 306.8, | 285.7, | -91.0,  | -0.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -106.0, | 8.6,   | 6   | 13.7, | 236.4, | 332.7, | -117.9, | 17.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -126.1, | 25.8,  | 8   | 13.7, | 138.4, | 339.6, | -130.5, | 33.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -133.3, | 41.9,  | 10  | 13.7, | 154.2, | 341.4, | -144.1, | 45.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -151.6, | 49.0,  | 12  | 13.7, | 248.8, | 328.4, | -154.6, | 51.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -152.9, | 51.9,  | 14  | 13.7, | 314.0, | 275.8, | -146.5, | 50.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -135.7, | 48.5,  | 16  | 13.7, | 341.3, | 189.9, | -120.8, | 44.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.9, | 39.2,  | 18  | 13.7, | 333.6, | 101.5, | -92.6,  | 33.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -122.7, | 26.7,  | 20  | 13.7, | 340.1, | 204.2, | -151.1, | 18.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -175.6, | 9.6,   | 22  | 13.7, | 306.8, | 285.7, | -194.7, | 0.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -207.9, | -8.6,  | 24  | 13.7, | 236.4, | 332.7, | -214.8, | -17.5, |
| 25  | 13.7, | 189.9, | 341.3, | -215.2, | -25.8, | 26  | 13.7, | 138.4, | 339.6, | -209.0, | -33.7, |
| 27  | 13.7, | 101.5, | 333.6, | -200.3, | -41.9, | 28  | 13.7, | 154.2, | 341.4, | -197.4, | -45.6, |
| 29  | 13.7, | 204.2, | 340.1, | -188.4, | -49.0, | 30  | 13.7, | 248.8, | 328.4, | -173.8, | -51.2, |
| 31  | 13.7, | 285.7, | 306.8, | -153.9, | -51.9, | 32  | 13.7, | 314.0, | 275.8, | -129.3, | -50.9, |
| 33  | 13.7, | 332.7, | 236.4, | -100.7, | -48.5, | 34  | 13.7, | 341.3, | 189.9, | -69.1,  | -44.5, |
| 35  | 13.7, | 339.6, | 138.4, | -35.5,  | -39.2, | 36  | 13.7, | 333.6, | 101.5, | -8.9,   | -33.5, |

SOURCE ID: TRU17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -32.3,  | -22.8, | 2   | 13.7, | 340.1, | 204.2, | -54.6,  | -14.7, |
| 3   | 13.7, | 328.4, | 248.8, | -75.3,  | -6.2,  | 4   | 13.7, | 306.8, | 285.7, | -93.6,  | 2.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -109.2, | 11.1,  | 6   | 13.7, | 236.4, | 332.7, | -121.4, | 19.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -129.9, | 27.1,  | 8   | 13.7, | 138.4, | 339.6, | -134.5, | 34.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -137.3, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -148.0, | 44.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -155.3, | 47.5,  | 12  | 13.7, | 248.8, | 328.4, | -158.0, | 49.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -155.9, | 49.2,  | 14  | 13.7, | 314.0, | 275.8, | -149.0, | 47.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -137.6, | 45.0,  | 16  | 13.7, | 341.3, | 189.9, | -122.0, | 40.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -103.5, | 35.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.5,  | 29.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.9, | 22.8,  | 20  | 13.7, | 340.1, | 204.2, | -149.7, | 14.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -173.5, | 6.2,   | 22  | 13.7, | 306.8, | 285.7, | -192.1, | -2.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -204.8, | -11.1, | 24  | 13.7, | 236.4, | 332.7, | -211.3, | -19.4, |
| 25  | 13.7, | 189.9, | 341.3, | -211.4, | -27.1, | 26  | 13.7, | 138.4, | 339.6, | -205.1, | -34.3, |
| 27  | 13.7, | 101.5, | 333.6, | -196.3, | -41.8, | 28  | 13.7, | 154.2, | 341.4, | -193.5, | -44.8, |
| 29  | 13.7, | 204.2, | 340.1, | -184.7, | -47.5, | 30  | 13.7, | 248.8, | 328.4, | -170.4, | -49.1, |
| 31  | 13.7, | 285.7, | 306.8, | -150.9, | -49.2, | 32  | 13.7, | 314.0, | 275.8, | -126.8, | -47.8, |
| 33  | 13.7, | 332.7, | 236.4, | -98.8,  | -45.0, | 34  | 13.7, | 341.3, | 189.9, | -67.9,  | -40.8, |
| 35  | 13.7, | 339.6, | 138.4, | -34.9,  | -35.3, | 36  | 13.7, | 333.6, | 101.5, | -9.0,   | -29.5, |

SOURCE ID: TRU18

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -33.2,  | -18.8, | 2   | 13.7, | 340.1, | 204.2, | -56.2,  | -11.0, |
| 3   | 13.7, | 328.4, | 248.8, | -77.5,  | -2.8,  | 4   | 13.7, | 306.8, | 285.7, | -96.4,  | 5.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -112.4, | 13.5,  | 6   | 13.7, | 236.4, | 332.7, | -125.0, | 21.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -133.8, | 28.2,  | 8   | 13.7, | 138.4, | 339.6, | -138.5, | 34.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -141.3, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -151.9, | 43.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -159.1, | 45.9,  | 12  | 13.7, | 248.8, | 328.4, | -161.4, | 46.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -158.8, | 46.5,  | 14  | 13.7, | 314.0, | 275.8, | -151.4, | 44.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -139.4, | 41.4,  | 16  | 13.7, | 341.3, | 189.9, | -123.2, | 36.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.0, | 31.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | 25.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.0, | 18.8,  | 20  | 13.7, | 340.1, | 204.2, | -148.1, | 11.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -171.3, | 2.8,   | 22  | 13.7, | 306.8, | 285.7, | -189.3, | -5.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -201.6, | -13.5, | 24  | 13.7, | 236.4, | 332.7, | -207.7, | -21.2, |
| 25  | 13.7, | 189.9, | 341.3, | -207.5, | -28.2, | 26  | 13.7, | 138.4, | 339.6, | -201.1, | -34.8, |
| 27  | 13.7, | 101.5, | 333.6, | -192.2, | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -189.5, | -43.9, |
| 29  | 13.7, | 204.2, | 340.1, | -181.0, | -45.9, | 30  | 13.7, | 248.8, | 328.4, | -167.0, | -46.9, |
| 31  | 13.7, | 285.7, | 306.8, | -147.9, | -46.5, | 32  | 13.7, | 314.0, | 275.8, | -124.4, | -44.6, |

|    |       |        |        |        |        |    |       |        |        |        |        |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|
| 33 | 13.7, | 332.7, | 236.4, | -97.0, | -41.4, | 34 | 13.7, | 341.3, | 189.9, | -66.7, | -36.9, |
| 35 | 13.7, | 339.6, | 138.4, | -34.4, | -31.3, | 36 | 13.7, | 333.6, | 101.5, | -9.2,  | -25.4, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:17:47

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -33.9,  | -14.9, | 2   | 13.7, | 340.1, | 204.2, | -57.6,  | -7.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -79.5,  | 0.7,   | 4   | 13.7, | 306.8, | 285.7, | -99.0,  | 8.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -115.5, | 16.1,  | 6   | 13.7, | 236.4, | 332.7, | -128.5, | 23.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -137.6, | 29.6,  | 8   | 13.7, | 138.4, | 339.6, | -142.5, | 35.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -145.4, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -155.9, | 43.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -162.8, | 44.5,  | 12  | 13.7, | 248.8, | 328.4, | -164.9, | 44.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -161.9, | 43.8,  | 14  | 13.7, | 314.0, | 275.8, | -154.0, | 41.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -141.4, | 37.9,  | 16  | 13.7, | 341.3, | 189.9, | -124.5, | 33.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.6, | 27.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.2,  | 21.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -120.2, | 14.9,  | 20  | 13.7, | 340.1, | 204.2, | -146.7, | 7.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -169.2, | -0.7,  | 22  | 13.7, | 306.8, | 285.7, | -186.7, | -8.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -198.5, | -16.1, | 24  | 13.7, | 236.4, | 332.7, | -204.2, | -23.2, |
| 25  | 13.7, | 189.9, | 341.3, | -203.8, | -29.6, | 26  | 13.7, | 138.4, | 339.6, | -197.1, | -35.4, |
| 27  | 13.7, | 101.5, | 333.6, | -188.2, | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -185.6, | -43.2, |
| 29  | 13.7, | 204.2, | 340.1, | -177.2, | -44.5, | 30  | 13.7, | 248.8, | 328.4, | -163.5, | -44.9, |
| 31  | 13.7, | 285.7, | 306.8, | -144.9, | -43.8, | 32  | 13.7, | 314.0, | 275.8, | -121.8, | -41.5, |
| 33  | 13.7, | 332.7, | 236.4, | -95.0,  | -37.9, | 34  | 13.7, | 341.3, | 189.9, | -65.4,  | -33.1, |
| 35  | 13.7, | 339.6, | 138.4, | -33.7,  | -27.3, | 36  | 13.7, | 333.6, | 101.5, | -9.2,   | -21.4, |

SOURCE ID: TRU20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -35.6,  | -7.2,  | 2   | 13.7, | 340.1, | 204.2, | -60.5,  | 0.1,   |
| 3   | 13.7, | 328.4, | 248.8, | -83.7,  | 7.3,   | 4   | 13.7, | 306.8, | 285.7, | -104.3, | 14.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -121.7, | 20.9,  | 6   | 13.7, | 236.4, | 332.7, | -135.4, | 26.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -145.1, | 32.0,  | 8   | 13.7, | 138.4, | 339.6, | -150.2, | 36.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -153.2, | 41.2,  | 10  | 13.7, | 154.2, | 341.4, | -163.5, | 41.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -170.1, | 41.6,  | 12  | 13.7, | 248.8, | 328.4, | -171.5, | 40.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -167.7, | 38.6,  | 14  | 13.7, | 314.0, | 275.8, | -158.8, | 35.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -145.1, | 30.9,  | 16  | 13.7, | 341.3, | 189.9, | -126.9, | 25.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -105.7, | 19.5,  | 18  | 13.7, | 333.6, | 101.5, | -91.9,  | 13.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -118.6, | 7.2,   | 20  | 13.7, | 340.1, | 204.2, | -143.7, | -0.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -165.1, | -7.3,  | 22  | 13.7, | 306.8, | 285.7, | -181.4, | -14.3, |
| 23  | 13.7, | 275.8, | 314.0, | -192.3, | -20.9, | 24  | 13.7, | 236.4, | 332.7, | -197.3, | -26.9, |
| 25  | 13.7, | 189.9, | 341.3, | -196.3, | -32.0, | 26  | 13.7, | 138.4, | 339.6, | -189.3, | -36.5, |
| 27  | 13.7, | 101.5, | 333.6, | -180.4, | -41.2, | 28  | 13.7, | 154.2, | 341.4, | -177.9, | -41.5, |
| 29  | 13.7, | 204.2, | 340.1, | -170.0, | -41.6, | 30  | 13.7, | 248.8, | 328.4, | -156.9, | -40.7, |
| 31  | 13.7, | 285.7, | 306.8, | -139.1, | -38.6, | 32  | 13.7, | 314.0, | 275.8, | -117.0, | -35.3, |
| 33  | 13.7, | 332.7, | 236.4, | -91.4,  | -30.9, | 34  | 13.7, | 341.3, | 189.9, | -63.0,  | -25.6, |
| 35  | 13.7, | 339.6, | 138.4, | -32.7,  | -19.5, | 36  | 13.7, | 333.6, | 101.5, | -9.5,   | -13.6, |

SOURCE ID: TRU21

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -36.2,  | -3.2, | 2   | 13.7, | 340.1, | 204.2, | -61.9,  | 3.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -85.6,  | 10.8, | 4   | 13.7, | 306.8, | 285.7, | -106.8, | 17.4, |
| 5   | 13.7, | 275.8, | 314.0, | -124.7, | 23.5, | 6   | 13.7, | 236.4, | 332.7, | -138.9, | 28.9, |
| 7   | 13.7, | 189.9, | 341.3, | -148.8, | 33.4, | 8   | 13.7, | 138.4, | 339.6, | -154.2, | 37.2, |
| 9   | 13.7, | 101.5, | 333.6, | -157.2, | 41.2, | 10  | 13.7, | 154.2, | 341.4, | -167.5, | 40.8, |
| 11  | 13.7, | 204.2, | 340.1, | -173.9, | 40.2, | 12  | 13.7, | 248.8, | 328.4, | -175.0, | 38.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -170.8, | 36.0,  | 14 | 13.7, | 314.0, | 275.8, | -161.4, | 32.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -147.1, | 27.5,  | 16 | 13.7, | 341.3, | 189.9, | -128.3, | 21.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -106.4, | 15.6,  | 18 | 13.7, | 333.6, | 101.5, | -92.0,  | 9.6,   |
| 19 | 13.7, | 341.4, | 154.2, | -117.9, | 3.2,   | 20 | 13.7, | 340.1, | 204.2, | -142.4, | -3.8,  |
| 21 | 13.7, | 328.4, | 248.8, | -163.1, | -10.8, | 22 | 13.7, | 306.8, | 285.7, | -178.9, | -17.4, |
| 23 | 13.7, | 275.8, | 314.0, | -189.2, | -23.5, | 24 | 13.7, | 236.4, | 332.7, | -193.8, | -28.9, |
| 25 | 13.7, | 189.9, | 341.3, | -192.5, | -33.4, | 26 | 13.7, | 138.4, | 339.6, | -185.4, | -37.2, |
| 27 | 13.7, | 101.5, | 333.6, | -176.4, | -41.2, | 28 | 13.7, | 154.2, | 341.4, | -174.0, | -40.8, |
| 29 | 13.7, | 204.2, | 340.1, | -166.2, | -40.2, | 30 | 13.7, | 248.8, | 328.4, | -153.4, | -38.7, |
| 31 | 13.7, | 285.7, | 306.8, | -136.0, | -36.0, | 32 | 13.7, | 314.0, | 275.8, | -114.4, | -32.2, |
| 33 | 13.7, | 332.7, | 236.4, | -89.3,  | -27.5, | 34 | 13.7, | 341.3, | 189.9, | -61.6,  | -21.9, |
| 35 | 13.7, | 339.6, | 138.4, | -31.9,  | -15.6, | 36 | 13.7, | 333.6, | 101.5, | -9.5,   | -9.6,  |

SOURCE ID: TRU22

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -37.0,  | 0.6,   | 2   | 13.7, | 340.1, | 204.2, | -63.3,  | 7.4,   |
| 3   | 13.7, | 328.4, | 248.8, | -87.7,  | 14.1,  | 4   | 13.7, | 306.8, | 285.7, | -109.4, | 20.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -127.8, | 25.9,  | 6   | 13.7, | 236.4, | 332.7, | -142.3, | 30.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -152.5, | 34.6,  | 8   | 13.7, | 138.4, | 339.6, | -158.0, | 37.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -161.1, | 41.1,  | 10  | 13.7, | 154.2, | 341.4, | -171.3, | 40.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -177.5, | 38.8,  | 12  | 13.7, | 248.8, | 328.4, | -178.3, | 36.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -173.7, | 33.4,  | 14  | 13.7, | 314.0, | 275.8, | -163.8, | 29.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -148.9, | 24.1,  | 16  | 13.7, | 341.3, | 189.9, | -129.5, | 18.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.0, | 11.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | 5.7,   |
| 19  | 13.7, | 341.4, | 154.2, | -117.1, | -0.6,  | 20  | 13.7, | 340.1, | 204.2, | -140.9, | -7.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -161.1, | -14.1, | 22  | 13.7, | 306.8, | 285.7, | -176.3, | -20.3, |
| 23  | 13.7, | 275.8, | 314.0, | -186.2, | -25.9, | 24  | 13.7, | 236.4, | 332.7, | -190.4, | -30.7, |
| 25  | 13.7, | 189.9, | 341.3, | -188.8, | -34.6, | 26  | 13.7, | 138.4, | 339.6, | -181.5, | -37.8, |
| 27  | 13.7, | 101.5, | 333.6, | -172.5, | -41.1, | 28  | 13.7, | 154.2, | 341.4, | -170.1, | -40.0, |
| 29  | 13.7, | 204.2, | 340.1, | -162.6, | -38.8, | 30  | 13.7, | 248.8, | 328.4, | -150.1, | -36.7, |
| 31  | 13.7, | 285.7, | 306.8, | -133.1, | -33.4, | 32  | 13.7, | 314.0, | 275.8, | -112.0, | -29.2, |
| 33  | 13.7, | 332.7, | 236.4, | -87.5,  | -24.1, | 34  | 13.7, | 341.3, | 189.9, | -60.3,  | -18.2, |
| 35  | 13.7, | 339.6, | 138.4, | -31.4,  | -11.8, | 36  | 13.7, | 333.6, | 101.5, | -9.6,   | -5.7,  |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639

09/20/24

\*\*\*

\*\*\*

09:17:47

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU23

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -37.8,  | 4.4,   | 2   | 13.7, | 340.1, | 204.2, | -64.7,  | 11.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.7,  | 17.4,  | 4   | 13.7, | 306.8, | 285.7, | -112.0, | 23.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -130.8, | 28.3,  | 6   | 13.7, | 236.4, | 332.7, | -145.7, | 32.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -156.1, | 35.8,  | 8   | 13.7, | 138.4, | 339.6, | -161.9, | 38.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -165.0, | 41.0,  | 10  | 13.7, | 154.2, | 341.4, | -175.1, | 39.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -181.1, | 37.4,  | 12  | 13.7, | 248.8, | 328.4, | -181.6, | 34.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -176.6, | 30.9,  | 14  | 13.7, | 314.0, | 275.8, | -166.2, | 26.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -150.8, | 20.7,  | 16  | 13.7, | 341.3, | 189.9, | -130.8, | 14.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.6, | 7.9,   | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | 1.8,   |
| 19  | 13.7, | 341.4, | 154.2, | -116.4, | -4.4,  | 20  | 13.7, | 340.1, | 204.2, | -139.5, | -11.1, |
| 21  | 13.7, | 328.4, | 248.8, | -159.1, | -17.4, | 22  | 13.7, | 306.8, | 285.7, | -173.7, | -23.2, |
| 23  | 13.7, | 275.8, | 314.0, | -183.2, | -28.3, | 24  | 13.7, | 236.4, | 332.7, | -187.0, | -32.6, |
| 25  | 13.7, | 189.9, | 341.3, | -185.2, | -35.8, | 26  | 13.7, | 138.4, | 339.6, | -177.7, | -38.4, |
| 27  | 13.7, | 101.5, | 333.6, | -168.6, | -41.0, | 28  | 13.7, | 154.2, | 341.4, | -166.3, | -39.3, |
| 29  | 13.7, | 204.2, | 340.1, | -159.0, | -37.4, | 30  | 13.7, | 248.8, | 328.4, | -146.8, | -34.7, |
| 31  | 13.7, | 285.7, | 306.8, | -130.2, | -30.9, | 32  | 13.7, | 314.0, | 275.8, | -109.6, | -26.2, |
| 33  | 13.7, | 332.7, | 236.4, | -85.6,  | -20.7, | 34  | 13.7, | 341.3, | 189.9, | -59.1,  | -14.5, |
| 35  | 13.7, | 339.6, | 138.4, | -30.8,  | -7.9,  | 36  | 13.7, | 333.6, | 101.5, | -9.7,   | -1.8,  |

## SOURCE ID: TRU24

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -38.6,  | 8.3,   | 2   | 13.7, | 340.1, | 204.2, | -66.2,  | 14.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -91.8,  | 20.8,  | 4   | 13.7, | 306.8, | 285.7, | -114.6, | 26.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -133.9, | 30.8,  | 6   | 13.7, | 236.4, | 332.7, | -149.2, | 34.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -159.9, | 37.1,  | 8   | 13.7, | 138.4, | 339.6, | -165.8, | 39.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -168.9, | 40.9,  | 10  | 13.7, | 154.2, | 341.4, | -179.0, | 38.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -184.8, | 35.9,  | 12  | 13.7, | 248.8, | 328.4, | -185.0, | 32.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -179.6, | 28.2,  | 14  | 13.7, | 314.0, | 275.8, | -168.7, | 23.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -152.7, | 17.2,  | 16  | 13.7, | 341.3, | 189.9, | -132.0, | 10.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -108.1, | 4.0,   | 18  | 13.7, | 333.6, | 101.5, | -91.6,  | -2.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -115.6, | -8.3,  | 20  | 13.7, | 340.1, | 204.2, | -138.1, | -14.8, |
| 21  | 13.7, | 328.4, | 248.8, | -157.0, | -20.8, | 22  | 13.7, | 306.8, | 285.7, | -171.1, | -26.2, |
| 23  | 13.7, | 275.8, | 314.0, | -180.0, | -30.8, | 24  | 13.7, | 236.4, | 332.7, | -183.5, | -34.5, |
| 25  | 13.7, | 189.9, | 341.3, | -181.4, | -37.1, | 26  | 13.7, | 138.4, | 339.6, | -173.8, | -39.0, |
| 27  | 13.7, | 101.5, | 333.6, | -164.7, | -40.9, | 28  | 13.7, | 154.2, | 341.4, | -162.4, | -38.5, |
| 29  | 13.7, | 204.2, | 340.1, | -155.3, | -35.9, | 30  | 13.7, | 248.8, | 328.4, | -143.4, | -32.6, |
| 31  | 13.7, | 285.7, | 306.8, | -127.2, | -28.2, | 32  | 13.7, | 314.0, | 275.8, | -107.1, | -23.1, |
| 33  | 13.7, | 332.7, | 236.4, | -83.8,  | -17.2, | 34  | 13.7, | 341.3, | 189.9, | -57.8,  | -10.7, |
| 35  | 13.7, | 339.6, | 138.4, | -30.2,  | -4.0,  | 36  | 13.7, | 333.6, | 101.5, | -9.8,   | 2.1,   |

## SOURCE ID: TRU25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -39.5,  | 12.2,  | 2   | 13.7, | 340.1, | 204.2, | -67.8,  | 18.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.0,  | 24.2,  | 4   | 13.7, | 306.8, | 285.7, | -117.4, | 29.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -137.2, | 33.2,  | 6   | 13.7, | 236.4, | 332.7, | -152.8, | 36.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -163.8, | 38.3,  | 8   | 13.7, | 138.4, | 339.6, | -169.8, | 39.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -173.0, | 40.7,  | 10  | 13.7, | 154.2, | 341.4, | -182.9, | 37.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -188.5, | 34.3,  | 12  | 13.7, | 248.8, | 328.4, | -188.4, | 30.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -182.5, | 25.5,  | 14  | 13.7, | 314.0, | 275.8, | -171.1, | 19.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -154.5, | 13.6,  | 16  | 13.7, | 341.3, | 189.9, | -133.2, | 6.9,   |
| 17  | 13.7, | 339.6, | 138.4, | -108.6, | -0.0,  | 18  | 13.7, | 333.6, | 101.5, | -91.4,  | -6.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -114.7, | -12.2, | 20  | 13.7, | 340.1, | 204.2, | -136.5, | -18.5, |
| 21  | 13.7, | 328.4, | 248.8, | -154.8, | -24.2, | 22  | 13.7, | 306.8, | 285.7, | -168.3, | -29.2, |
| 23  | 13.7, | 275.8, | 314.0, | -176.8, | -33.2, | 24  | 13.7, | 236.4, | 332.7, | -179.9, | -36.3, |
| 25  | 13.7, | 189.9, | 341.3, | -177.5, | -38.3, | 26  | 13.7, | 138.4, | 339.6, | -169.8, | -39.5, |
| 27  | 13.7, | 101.5, | 333.6, | -160.6, | -40.7, | 28  | 13.7, | 154.2, | 341.4, | -158.5, | -37.6, |
| 29  | 13.7, | 204.2, | 340.1, | -151.6, | -34.3, | 30  | 13.7, | 248.8, | 328.4, | -140.0, | -30.4, |
| 31  | 13.7, | 285.7, | 306.8, | -124.2, | -25.5, | 32  | 13.7, | 314.0, | 275.8, | -104.7, | -19.8, |
| 33  | 13.7, | 332.7, | 236.4, | -81.9,  | -13.6, | 34  | 13.7, | 341.3, | 189.9, | -56.7,  | -6.9,  |
| 35  | 13.7, | 339.6, | 138.4, | -29.7,  | 0.0,   | 36  | 13.7, | 333.6, | 101.5, | -10.0,  | 6.2,   |

## SOURCE ID: TRU26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -40.2,  | 16.2,  | 2   | 13.7, | 340.1, | 204.2, | -69.2,  | 22.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -96.0,  | 27.6,  | 4   | 13.7, | 306.8, | 285.7, | -120.0, | 32.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -140.3, | 35.8,  | 6   | 13.7, | 236.4, | 332.7, | -156.3, | 38.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.6, | 39.6,  | 8   | 13.7, | 138.4, | 339.6, | -173.8, | 40.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -177.0, | 40.7,  | 10  | 13.7, | 154.2, | 341.4, | -186.9, | 36.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -192.3, | 32.9,  | 12  | 13.7, | 248.8, | 328.4, | -191.8, | 28.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -185.6, | 22.9,  | 14  | 13.7, | 314.0, | 275.8, | -173.7, | 16.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -156.5, | 10.1,  | 16  | 13.7, | 341.3, | 189.9, | -134.6, | 3.1,   |
| 17  | 13.7, | 339.6, | 138.4, | -109.3, | -4.0,  | 18  | 13.7, | 333.6, | 101.5, | -91.4,  | -10.2, |
| 19  | 13.7, | 341.4, | 154.2, | -113.9, | -16.2, | 20  | 13.7, | 340.1, | 204.2, | -135.1, | -22.2, |
| 21  | 13.7, | 328.4, | 248.8, | -152.7, | -27.6, | 22  | 13.7, | 306.8, | 285.7, | -165.7, | -32.2, |
| 23  | 13.7, | 275.8, | 314.0, | -173.7, | -35.8, | 24  | 13.7, | 236.4, | 332.7, | -176.4, | -38.3, |
| 25  | 13.7, | 189.9, | 341.3, | -173.7, | -39.6, | 26  | 13.7, | 138.4, | 339.6, | -165.8, | -40.1, |
| 27  | 13.7, | 101.5, | 333.6, | -156.6, | -40.7, | 28  | 13.7, | 154.2, | 341.4, | -154.5, | -36.8, |
| 29  | 13.7, | 204.2, | 340.1, | -147.8, | -32.9, | 30  | 13.7, | 248.8, | 328.4, | -136.6, | -28.3, |
| 31  | 13.7, | 285.7, | 306.8, | -121.2, | -22.9, | 32  | 13.7, | 314.0, | 275.8, | -102.1, | -16.7, |
| 33  | 13.7, | 332.7, | 236.4, | -79.9,  | -10.0, | 34  | 13.7, | 341.3, | 189.9, | -55.3,  | -3.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -29.1,  | 4.0,   | 36  | 13.7, | 333.6, | 101.5, | -10.1,  | 10.2,  |



\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

09:17:47

PAGE 60

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -41.9,  | 23.9,  | 2   | 13.7, | 340.1, | 204.2, | -72.2,  | 29.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -100.2, | 34.3,  | 4   | 13.7, | 306.8, | 285.7, | -125.3, | 38.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -146.5, | 40.6,  | 6   | 13.7, | 236.4, | 332.7, | -163.3, | 42.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -175.1, | 42.0,  | 8   | 13.7, | 138.4, | 339.6, | -181.6, | 41.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -184.9, | 40.4,  | 10  | 13.7, | 154.2, | 341.4, | -194.6, | 35.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -199.6, | 29.9,  | 12  | 13.7, | 248.8, | 328.4, | -198.5, | 24.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -191.4, | 17.6,  | 14  | 13.7, | 314.0, | 275.8, | -178.5, | 10.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -160.2, | 3.0,   | 16  | 13.7, | 341.3, | 189.9, | -137.0, | -4.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.4, | -11.8, | 18  | 13.7, | 333.6, | 101.5, | -91.1,  | -18.1, |
| 19  | 13.7, | 341.4, | 154.2, | -112.3, | -23.9, | 20  | 13.7, | 340.1, | 204.2, | -132.1, | -29.6, |
| 21  | 13.7, | 328.4, | 248.8, | -148.5, | -34.3, | 22  | 13.7, | 306.8, | 285.7, | -160.4, | -38.1, |
| 23  | 13.7, | 275.8, | 314.0, | -167.5, | -40.6, | 24  | 13.7, | 236.4, | 332.7, | -169.4, | -42.0, |
| 25  | 13.7, | 189.9, | 341.3, | -166.2, | -42.0, | 26  | 13.7, | 138.4, | 339.6, | -158.0, | -41.2, |
| 27  | 13.7, | 101.5, | 333.6, | -148.7, | -40.4, | 28  | 13.7, | 154.2, | 341.4, | -146.8, | -35.2, |
| 29  | 13.7, | 204.2, | 340.1, | -140.5, | -29.9, | 30  | 13.7, | 248.8, | 328.4, | -129.9, | -24.1, |
| 31  | 13.7, | 285.7, | 306.8, | -115.3, | -17.6, | 32  | 13.7, | 314.0, | 275.8, | -97.2,  | -10.5, |
| 33  | 13.7, | 332.7, | 236.4, | -76.2,  | -3.0,  | 34  | 13.7, | 341.3, | 189.9, | -52.9,  | 4.5,   |
| 35  | 13.7, | 339.6, | 138.4, | -28.0,  | 11.8,  | 36  | 13.7, | 333.6, | 101.5, | -10.4,  | 18.1,  |

SOURCE ID: TRU28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -42.5,  | 27.8,  | 2   | 13.7, | 340.1, | 204.2, | -73.5,  | 33.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -102.2, | 37.8,  | 4   | 13.7, | 306.8, | 285.7, | -127.8, | 41.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -149.5, | 43.2,  | 6   | 13.7, | 236.4, | 332.7, | -166.7, | 44.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -178.8, | 43.4,  | 8   | 13.7, | 138.4, | 339.6, | -185.5, | 41.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -188.9, | 40.4,  | 10  | 13.7, | 154.2, | 341.4, | -198.5, | 34.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -203.4, | 28.6,  | 12  | 13.7, | 248.8, | 328.4, | -202.0, | 22.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -194.5, | 15.0,  | 14  | 13.7, | 314.0, | 275.8, | -181.1, | 7.4,   |
| 15  | 13.7, | 332.7, | 236.4, | -162.2, | -0.4,  | 16  | 13.7, | 341.3, | 189.9, | -138.4, | -8.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -111.1, | -15.7, | 18  | 13.7, | 333.6, | 101.5, | -91.1,  | -22.1, |
| 19  | 13.7, | 341.4, | 154.2, | -111.6, | -27.8, | 20  | 13.7, | 340.1, | 204.2, | -130.8, | -33.3, |
| 21  | 13.7, | 328.4, | 248.8, | -146.6, | -37.8, | 22  | 13.7, | 306.8, | 285.7, | -157.9, | -41.1, |
| 23  | 13.7, | 275.8, | 314.0, | -164.4, | -43.2, | 24  | 13.7, | 236.4, | 332.7, | -166.0, | -44.0, |
| 25  | 13.7, | 189.9, | 341.3, | -162.5, | -43.4, | 26  | 13.7, | 138.4, | 339.6, | -154.0, | -41.9, |
| 27  | 13.7, | 101.5, | 333.6, | -144.7, | -40.4, | 28  | 13.7, | 154.2, | 341.4, | -142.9, | -34.5, |
| 29  | 13.7, | 204.2, | 340.1, | -136.7, | -28.6, | 30  | 13.7, | 248.8, | 328.4, | -126.4, | -22.2, |
| 31  | 13.7, | 285.7, | 306.8, | -112.2, | -15.0, | 32  | 13.7, | 314.0, | 275.8, | -94.7,  | -7.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -74.2,  | 0.4,   | 34  | 13.7, | 341.3, | 189.9, | -51.5,  | 8.2,   |
| 35  | 13.7, | 339.6, | 138.4, | -27.2,  | 15.7,  | 36  | 13.7, | 333.6, | 101.5, | -10.3,  | 22.1,  |

SOURCE ID: TRU29

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -43.3,  | 31.6, | 2   | 13.7, | 340.1, | 204.2, | -74.9,  | 36.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -104.3, | 41.1, | 4   | 13.7, | 306.8, | 285.7, | -130.4, | 44.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -152.6, | 45.6, | 6   | 13.7, | 236.4, | 332.7, | -170.2, | 45.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -182.5, | 44.6, | 8   | 13.7, | 138.4, | 339.6, | -189.4, | 42.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -192.8, | 40.3, | 10  | 13.7, | 154.2, | 341.4, | -202.3, | 33.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -207.0, | 27.2, | 12  | 13.7, | 248.8, | 328.4, | -205.3, | 20.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -197.4, | 12.4, | 14  | 13.7, | 314.0, | 275.8, | -183.5, | 4.4,   |
| 15  | 13.7, | 332.7, | 236.4, | -164.1, | -3.8, | 16  | 13.7, | 341.3, | 189.9, | -139.6, | -11.9, |

SOURCE ID: TRU30

09:17:47

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU31

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -44.9,  | 39.3,  | 2   | 13.7, | 340.1, | 204.2, | -77.8,  | 44.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -108.3, | 47.8,  | 4   | 13.7, | 306.8, | 285.7, | -135.6, | 49.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -158.7, | 50.5,  | 6   | 13.7, | 236.4, | 332.7, | -177.1, | 49.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -190.0, | 47.2,  | 8   | 13.7, | 138.4, | 339.6, | -197.1, | 43.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -200.6, | 40.1,  | 10  | 13.7, | 154.2, | 341.4, | -210.0, | 32.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -214.3, | 24.3,  | 12  | 13.7, | 248.8, | 328.4, | -212.0, | 16.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -203.3, | 7.2,   | 14  | 13.7, | 314.0, | 275.8, | -188.4, | -1.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -167.8, | -10.7, | 16  | 13.7, | 341.3, | 189.9, | -142.1, | -19.3, |
| 17  | 13.7, | 339.6, | 138.4, | -112.8, | -27.4, | 18  | 13.7, | 333.6, | 101.5, | -90.8,  | -33.8, |
| 19  | 13.7, | 341.4, | 154.2, | -109.3, | -39.3, | 20  | 13.7, | 340.1, | 204.2, | -126.4, | -44.2, |
| 21  | 13.7, | 328.4, | 248.8, | -140.4, | -47.8, | 22  | 13.7, | 306.8, | 285.7, | -150.1, | -49.9, |
| 23  | 13.7, | 275.8, | 314.0, | -155.2, | -50.5, | 24  | 13.7, | 236.4, | 332.7, | -155.6, | -49.6, |
| 25  | 13.7, | 189.9, | 341.3, | -151.3, | -47.2, | 26  | 13.7, | 138.4, | 339.6, | -142.4, | -43.7, |
| 27  | 13.7, | 101.5, | 333.6, | -133.0, | -40.1, | 28  | 13.7, | 154.2, | 341.4, | -131.4, | -32.2, |
| 29  | 13.7, | 204.2, | 340.1, | -125.8, | -24.3, | 30  | 13.7, | 248.8, | 328.4, | -116.4, | -16.0, |
| 31  | 13.7, | 285.7, | 306.8, | -103.4, | -7.2,  | 32  | 13.7, | 314.0, | 275.8, | -87.3,  | 1.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -68.6,  | 10.7,  | 34  | 13.7, | 341.3, | 189.9, | -47.8,  | 19.3,  |
| 35  | 13.7, | 339.6, | 138.4, | -25.5,  | 27.4,  | 36  | 13.7, | 333.6, | 101.5, | -10.6,  | 33.8,  |

## SOURCE ID: TRU32

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -45.8,  | 43.3,  | 2   | 13.7, | 340.1, | 204.2, | -79.4,  | 48.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -110.5, | 51.2,  | 4   | 13.7, | 306.8, | 285.7, | -138.4, | 52.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -162.0, | 53.0,  | 6   | 13.7, | 236.4, | 332.7, | -180.7, | 51.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.9, | 48.3,  | 8   | 13.7, | 138.4, | 339.6, | -201.2, | 44.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -204.7, | 39.9,  | 10  | 13.7, | 154.2, | 341.4, | -214.0, | 31.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -218.0, | 22.7,  | 12  | 13.7, | 248.8, | 328.4, | -215.4, | 13.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -206.3, | 4.5,   | 14  | 13.7, | 314.0, | 275.8, | -190.9, | -5.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -169.7, | -14.3, | 16  | 13.7, | 341.3, | 189.9, | -143.3, | -23.2, |
| 17  | 13.7, | 339.6, | 138.4, | -113.3, | -31.4, | 18  | 13.7, | 333.6, | 101.5, | -90.6,  | -37.9, |
| 19  | 13.7, | 341.4, | 154.2, | -108.3, | -43.3, | 20  | 13.7, | 340.1, | 204.2, | -124.9, | -48.0, |
| 21  | 13.7, | 328.4, | 248.8, | -138.2, | -51.2, | 22  | 13.7, | 306.8, | 285.7, | -147.3, | -52.9, |
| 23  | 13.7, | 275.8, | 314.0, | -152.0, | -53.0, | 24  | 13.7, | 236.4, | 332.7, | -152.0, | -51.4, |
| 25  | 13.7, | 189.9, | 341.3, | -147.5, | -48.3, | 26  | 13.7, | 138.4, | 339.6, | -138.4, | -44.2, |
| 27  | 13.7, | 101.5, | 333.6, | -128.9, | -39.9, | 28  | 13.7, | 154.2, | 341.4, | -127.4, | -31.3, |
| 29  | 13.7, | 204.2, | 340.1, | -122.1, | -22.7, | 30  | 13.7, | 248.8, | 328.4, | -113.0, | -13.8, |
| 31  | 13.7, | 285.7, | 306.8, | -100.5, | -4.5,  | 32  | 13.7, | 314.0, | 275.8, | -84.9,  | 5.0,   |
| 33  | 13.7, | 332.7, | 236.4, | -66.8,  | 14.3,  | 34  | 13.7, | 341.3, | 189.9, | -46.6,  | 23.2,  |
| 35  | 13.7, | 339.6, | 138.4, | -25.0,  | 31.4,  | 36  | 13.7, | 333.6, | 101.5, | -10.8,  | 37.9,  |

## SOURCE ID: TRU33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -46.5,  | 47.2,  | 2   | 13.7, | 340.1, | 204.2, | -80.8,  | 51.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -112.6, | 54.7,  | 4   | 13.7, | 306.8, | 285.7, | -141.0, | 55.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -165.1, | 55.5,  | 6   | 13.7, | 236.4, | 332.7, | -184.2, | 53.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -197.6, | 49.7,  | 8   | 13.7, | 138.4, | 339.6, | -205.1, | 44.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -208.7, | 39.8,  | 10  | 13.7, | 154.2, | 341.4, | -217.9, | 30.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -221.8, | 21.3,  | 12  | 13.7, | 248.8, | 328.4, | -218.9, | 11.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -209.3, | 1.9,   | 14  | 13.7, | 314.0, | 275.8, | -193.4, | -8.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -171.6, | -17.8, | 16  | 13.7, | 341.3, | 189.9, | -144.6, | -27.0, |
| 17  | 13.7, | 339.6, | 138.4, | -114.0, | -35.3, | 18  | 13.7, | 333.6, | 101.5, | -90.6,  | -41.9, |
| 19  | 13.7, | 341.4, | 154.2, | -107.6, | -47.2, | 20  | 13.7, | 340.1, | 204.2, | -123.5, | -51.7, |
| 21  | 13.7, | 328.4, | 248.8, | -136.2, | -54.7, | 22  | 13.7, | 306.8, | 285.7, | -144.7, | -55.9, |
| 23  | 13.7, | 275.8, | 314.0, | -148.9, | -55.5, | 24  | 13.7, | 236.4, | 332.7, | -148.5, | -53.4, |
| 25  | 13.7, | 189.9, | 341.3, | -143.7, | -49.7, | 26  | 13.7, | 138.4, | 339.6, | -134.4, | -44.8, |
| 27  | 13.7, | 101.5, | 333.6, | -124.9, | -39.8, | 28  | 13.7, | 154.2, | 341.4, | -123.5, | -30.5, |
| 29  | 13.7, | 204.2, | 340.1, | -118.3, | -21.3, | 30  | 13.7, | 248.8, | 328.4, | -109.5, | -11.8, |
| 31  | 13.7, | 285.7, | 306.8, | -97.4,  | -1.9,  | 32  | 13.7, | 314.0, | 275.8, | -82.4,  | 8.1,   |
| 33  | 13.7, | 332.7, | 236.4, | -64.8,  | 17.8,  | 34  | 13.7, | 341.3, | 189.9, | -45.3,  | 27.0,  |
| 35  | 13.7, | 339.6, | 138.4, | -24.4,  | 35.3,  | 36  | 13.7, | 333.6, | 101.5, | -10.9,  | 41.9,  |

## SOURCE ID: TRU34

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.2,  | 54.9,  | 2   | 13.7, | 340.1, | 204.2, | -83.8,  | 59.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.8, | 61.3,  | 4   | 13.7, | 306.8, | 285.7, | -146.2, | 61.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -171.2, | 60.3,  | 6   | 13.7, | 236.4, | 332.7, | -191.1, | 57.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -205.1, | 52.1,  | 8   | 13.7, | 138.4, | 339.6, | -212.9, | 45.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -216.5, | 39.5,  | 10  | 13.7, | 154.2, | 341.4, | -225.6, | 28.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -229.0, | 18.4,  | 12  | 13.7, | 248.8, | 328.4, | -225.5, | 7.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -215.1, | -3.4,  | 14  | 13.7, | 314.0, | 275.8, | -198.2, | -14.3, |
| 15  | 13.7, | 332.7, | 236.4, | -175.3, | -24.7, | 16  | 13.7, | 341.3, | 189.9, | -147.0, | -34.4, |
| 17  | 13.7, | 339.6, | 138.4, | -115.0, | -43.1, | 18  | 13.7, | 333.6, | 101.5, | -90.3,  | -49.7, |
| 19  | 13.7, | 341.4, | 154.2, | -106.0, | -54.9, | 20  | 13.7, | 340.1, | 204.2, | -120.5, | -59.0, |
| 21  | 13.7, | 328.4, | 248.8, | -132.0, | -61.3, | 22  | 13.7, | 306.8, | 285.7, | -139.5, | -61.7, |
| 23  | 13.7, | 275.8, | 314.0, | -142.7, | -60.3, | 24  | 13.7, | 236.4, | 332.7, | -141.6, | -57.0, |
| 25  | 13.7, | 189.9, | 341.3, | -136.2, | -52.1, | 26  | 13.7, | 138.4, | 339.6, | -126.7, | -45.9, |
| 27  | 13.7, | 101.5, | 333.6, | -117.1, | -39.5, | 28  | 13.7, | 154.2, | 341.4, | -115.8, | -28.9, |
| 29  | 13.7, | 204.2, | 340.1, | -111.1, | -18.4, | 30  | 13.7, | 248.8, | 328.4, | -102.9, | -7.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -91.6,  | 3.4,   | 32  | 13.7, | 314.0, | 275.8, | -77.6,  | 14.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -61.2,  | 24.7,  | 34  | 13.7, | 341.3, | 189.9, | -42.9,  | 34.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -23.3,  | 43.1,  | 36  | 13.7, | 333.6, | 101.5, | -11.2,  | 49.7,  |

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU35

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.8,  | 58.8,  | 2   | 13.7, | 340.1, | 204.2, | -85.1,  | 62.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -118.7, | 64.7,  | 4   | 13.7, | 306.8, | 285.7, | -148.8, | 64.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -174.3, | 62.9,  | 6   | 13.7, | 236.4, | 332.7, | -194.5, | 59.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.8, | 53.5,  | 8   | 13.7, | 138.4, | 339.6, | -216.8, | 46.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -220.5, | 39.6,  | 10  | 13.7, | 154.2, | 341.4, | -229.5, | 28.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -232.8, | 17.0,  | 12  | 13.7, | 248.8, | 328.4, | -228.9, | 5.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -218.2, | -5.9,  | 14  | 13.7, | 314.0, | 275.8, | -200.8, | -17.3, |
| 15  | 13.7, | 332.7, | 236.4, | -177.3, | -28.2, | 16  | 13.7, | 341.3, | 189.9, | -148.4, | -38.1, |
| 17  | 13.7, | 339.6, | 138.4, | -115.8, | -47.0, | 18  | 13.7, | 333.6, | 101.5, | -90.3,  | -53.7, |
| 19  | 13.7, | 341.4, | 154.2, | -105.3, | -58.8, | 20  | 13.7, | 340.1, | 204.2, | -119.2, | -62.7, |
| 21  | 13.7, | 328.4, | 248.8, | -130.0, | -64.7, | 22  | 13.7, | 306.8, | 285.7, | -136.9, | -64.8, |
| 23  | 13.7, | 275.8, | 314.0, | -139.7, | -62.9, | 24  | 13.7, | 236.4, | 332.7, | -138.2, | -59.1, |
| 25  | 13.7, | 189.9, | 341.3, | -132.5, | -53.5, | 26  | 13.7, | 138.4, | 339.6, | -122.8, | -46.6, |
| 27  | 13.7, | 101.5, | 333.6, | -113.1, | -39.6, | 28  | 13.7, | 154.2, | 341.4, | -111.9, | -28.2, |
| 29  | 13.7, | 204.2, | 340.1, | -107.3, | -17.0, | 30  | 13.7, | 248.8, | 328.4, | -99.5,  | -5.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -88.6,  | 5.9,   | 32  | 13.7, | 314.0, | 275.8, | -75.0,  | 17.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -59.1,  | 28.2,  | 34  | 13.7, | 341.3, | 189.9, | -41.5,  | 38.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.6,  | 47.0,  | 36  | 13.7, | 333.6, | 101.5, | -11.1,  | 53.7,  |

SOURCE ID: TRU36

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -49.6,  | 62.6,  | 2   | 13.7, | 340.1, | 204.2, | -86.5,  | 66.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -120.8, | 68.1,  | 4   | 13.7, | 306.8, | 285.7, | -151.4, | 67.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -177.4, | 65.3,  | 6   | 13.7, | 236.4, | 332.7, | -197.9, | 60.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -212.5, | 54.7,  | 8   | 13.7, | 138.4, | 339.6, | -220.6, | 47.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -224.4, | 39.5,  | 10  | 13.7, | 154.2, | 341.4, | -233.3, | 27.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -236.4, | 15.6,  | 12  | 13.7, | 248.8, | 328.4, | -232.3, | 3.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -221.1, | -8.5,  | 14  | 13.7, | 314.0, | 275.8, | -203.2, | -20.4, |
| 15  | 13.7, | 332.7, | 236.4, | -179.1, | -31.6, | 16  | 13.7, | 341.3, | 189.9, | -149.6, | -41.9, |
| 17  | 13.7, | 339.6, | 138.4, | -116.3, | -50.9, | 18  | 13.7, | 333.6, | 101.5, | -90.2,  | -57.6, |
| 19  | 13.7, | 341.4, | 154.2, | -104.5, | -62.6, | 20  | 13.7, | 340.1, | 204.2, | -117.7, | -66.3, |
| 21  | 13.7, | 328.4, | 248.8, | -128.0, | -68.1, | 22  | 13.7, | 306.8, | 285.7, | -134.3, | -67.7, |
| 23  | 13.7, | 275.8, | 314.0, | -136.6, | -65.3, | 24  | 13.7, | 236.4, | 332.7, | -134.8, | -60.9, |
| 25  | 13.7, | 189.9, | 341.3, | -128.8, | -54.7, | 26  | 13.7, | 138.4, | 339.6, | -118.9, | -47.2, |
| 27  | 13.7, | 101.5, | 333.6, | -109.2, | -39.5, | 28  | 13.7, | 154.2, | 341.4, | -108.1, | -27.4, |
| 29  | 13.7, | 204.2, | 340.1, | -103.7, | -15.6, | 30  | 13.7, | 248.8, | 328.4, | -96.1,  | -3.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -85.6,  | 8.5,   | 32  | 13.7, | 314.0, | 275.8, | -72.6,  | 20.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -57.3,  | 31.6,  | 34  | 13.7, | 341.3, | 189.9, | -40.3,  | 41.9,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.0,  | 50.9,  | 36  | 13.7, | 333.6, | 101.5, | -11.3,  | 57.6,  |

SOURCE ID: TRU37

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -50.4,  | 66.4,  | 2   | 13.7, | 340.1, | 204.2, | -87.9,  | 70.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -122.8, | 71.4,  | 4   | 13.7, | 306.8, | 285.7, | -153.9, | 70.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -180.4, | 67.7,  | 6   | 13.7, | 236.4, | 332.7, | -201.3, | 62.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -216.2, | 55.9,  | 8   | 13.7, | 138.4, | 339.6, | -224.5, | 47.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -228.2, | 39.4,  | 10  | 13.7, | 154.2, | 341.4, | -237.1, | 26.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -240.0, | 14.2,  | 12  | 13.7, | 248.8, | 328.4, | -235.6, | 1.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -224.0, | -11.1, | 14  | 13.7, | 314.0, | 275.8, | -205.6, | -23.4, |
| 15  | 13.7, | 332.7, | 236.4, | -181.0, | -35.0, | 16  | 13.7, | 341.3, | 189.9, | -150.9, | -45.5, |
| 17  | 13.7, | 339.6, | 138.4, | -116.9, | -54.7, | 18  | 13.7, | 333.6, | 101.5, | -90.1,  | -61.4, |
| 19  | 13.7, | 341.4, | 154.2, | -103.8, | -66.4, | 20  | 13.7, | 340.1, | 204.2, | -116.3, | -70.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 21 | 13.7, | 328.4, | 248.8, | -126.0, | -71.4, | 22 | 13.7, | 306.8, | 285.7, | -131.8, | -70.6, |
| 23 | 13.7, | 275.8, | 314.0, | -133.6, | -67.7, | 24 | 13.7, | 236.4, | 332.7, | -131.4, | -62.8, |
| 25 | 13.7, | 189.9, | 341.3, | -125.1, | -55.9, | 26 | 13.7, | 138.4, | 339.6, | -115.1, | -47.8, |
| 27 | 13.7, | 101.5, | 333.6, | -105.3, | -39.4, | 28 | 13.7, | 154.2, | 341.4, | -104.3, | -26.7, |
| 29 | 13.7, | 204.2, | 340.1, | -100.1, | -14.2, | 30 | 13.7, | 248.8, | 328.4, | -92.8,  | -1.6,  |
| 31 | 13.7, | 285.7, | 306.8, | -82.7,  | 11.1,  | 32 | 13.7, | 314.0, | 275.8, | -70.1,  | 23.4,  |
| 33 | 13.7, | 332.7, | 236.4, | -55.4,  | 35.0,  | 34 | 13.7, | 341.3, | 189.9, | -39.0,  | 45.5,  |
| 35 | 13.7, | 339.6, | 138.4, | -21.4,  | 54.7,  | 36 | 13.7, | 333.6, | 101.5, | -11.3,  | 61.4,  |

SOURCE ID: TRU38

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -51.2,  | 70.3,  | 2   | 13.7, | 340.1, | 204.2, | -89.4,  | 73.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -124.9, | 74.8,  | 4   | 13.7, | 306.8, | 285.7, | -156.6, | 73.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -183.5, | 70.2,  | 6   | 13.7, | 236.4, | 332.7, | -204.8, | 64.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -220.0, | 57.2,  | 8   | 13.7, | 138.4, | 339.6, | -228.4, | 48.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -232.2, | 39.3,  | 10  | 13.7, | 154.2, | 341.4, | -241.0, | 25.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -243.7, | 12.7,  | 12  | 13.7, | 248.8, | 328.4, | -239.0, | -0.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -227.0, | -13.7, | 14  | 13.7, | 314.0, | 275.8, | -208.1, | -26.5, |
| 15  | 13.7, | 332.7, | 236.4, | -182.9, | -38.5, | 16  | 13.7, | 341.3, | 189.9, | -152.1, | -49.3, |
| 17  | 13.7, | 339.6, | 138.4, | -117.5, | -58.6, | 18  | 13.7, | 333.6, | 101.5, | -90.0,  | -65.4, |
| 19  | 13.7, | 341.4, | 154.2, | -103.0, | -70.3, | 20  | 13.7, | 340.1, | 204.2, | -114.9, | -73.6, |
| 21  | 13.7, | 328.4, | 248.8, | -123.9, | -74.8, | 22  | 13.7, | 306.8, | 285.7, | -129.2, | -73.6, |
| 23  | 13.7, | 275.8, | 314.0, | -130.5, | -70.2, | 24  | 13.7, | 236.4, | 332.7, | -127.9, | -64.7, |
| 25  | 13.7, | 189.9, | 341.3, | -121.4, | -57.2, | 26  | 13.7, | 138.4, | 339.6, | -111.2, | -48.3, |
| 27  | 13.7, | 101.5, | 333.6, | -101.4, | -39.3, | 28  | 13.7, | 154.2, | 341.4, | -100.4, | -25.9, |
| 29  | 13.7, | 204.2, | 340.1, | -96.4,  | -12.7, | 30  | 13.7, | 248.8, | 328.4, | -89.4,  | 0.5,   |
| 31  | 13.7, | 285.7, | 306.8, | -79.8,  | 13.7,  | 32  | 13.7, | 314.0, | 275.8, | -67.7,  | 26.5,  |
| 33  | 13.7, | 332.7, | 236.4, | -53.5,  | 38.5,  | 34  | 13.7, | 341.3, | 189.9, | -37.8,  | 49.3,  |
| 35  | 13.7, | 339.6, | 138.4, | -20.8,  | 58.6,  | 36  | 13.7, | 333.6, | 101.5, | -11.5,  | 65.4,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU39

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -52.1,  | 74.2,  | 2   | 13.7, | 340.1, | 204.2, | -91.0,  | 77.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -127.1, | 78.2,  | 4   | 13.7, | 306.8, | 285.7, | -159.3, | 76.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -186.7, | 72.6,  | 6   | 13.7, | 236.4, | 332.7, | -208.4, | 66.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -223.8, | 58.4,  | 8   | 13.7, | 138.4, | 339.6, | -232.4, | 48.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -236.3, | 39.1,  | 10  | 13.7, | 154.2, | 341.4, | -245.0, | 25.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -247.4, | 11.2,  | 12  | 13.7, | 248.8, | 328.4, | -242.4, | -2.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -230.0, | -16.5, | 14  | 13.7, | 314.0, | 275.8, | -210.5, | -29.7, |
| 15  | 13.7, | 332.7, | 236.4, | -184.7, | -42.1, | 16  | 13.7, | 341.3, | 189.9, | -153.3, | -53.2, |
| 17  | 13.7, | 339.6, | 138.4, | -118.0, | -62.6, | 18  | 13.7, | 333.6, | 101.5, | -89.8,  | -69.5, |
| 19  | 13.7, | 341.4, | 154.2, | -102.0, | -74.2, | 20  | 13.7, | 340.1, | 204.2, | -113.3, | -77.4, |
| 21  | 13.7, | 328.4, | 248.8, | -121.7, | -78.2, | 22  | 13.7, | 306.8, | 285.7, | -126.4, | -76.6, |
| 23  | 13.7, | 275.8, | 314.0, | -127.3, | -72.6, | 24  | 13.7, | 236.4, | 332.7, | -124.3, | -66.5, |
| 25  | 13.7, | 189.9, | 341.3, | -117.5, | -58.4, | 26  | 13.7, | 138.4, | 339.6, | -107.1, | -48.8, |
| 27  | 13.7, | 101.5, | 333.6, | -97.3,  | -39.1, | 28  | 13.7, | 154.2, | 341.4, | -96.5,  | -25.0, |
| 29  | 13.7, | 204.2, | 340.1, | -92.6,  | -11.2, | 30  | 13.7, | 248.8, | 328.4, | -86.0,  | 2.7,   |
| 31  | 13.7, | 285.7, | 306.8, | -76.8,  | 16.5,  | 32  | 13.7, | 314.0, | 275.8, | -65.2,  | 29.7,  |
| 33  | 13.7, | 332.7, | 236.4, | -51.7,  | 42.1,  | 34  | 13.7, | 341.3, | 189.9, | -36.6,  | 53.2,  |
| 35  | 13.7, | 339.6, | 138.4, | -20.4,  | 62.6,  | 36  | 13.7, | 333.6, | 101.5, | -11.7,  | 69.5,  |

SOURCE ID: TRU40

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|-----|----|----|----|------|------|-----|----|----|----|------|------|
|-----|----|----|----|------|------|-----|----|----|----|------|------|

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 1  | 13.7, | 341.4, | 154.2, | -52.8,  | 78.2,  | 2  | 13.7, | 340.1, | 204.2, | -92.4,  | 81.1,  |
| 3  | 13.7, | 328.4, | 248.8, | -129.1, | 81.6,  | 4  | 13.7, | 306.8, | 285.7, | -161.9, | 79.6,  |
| 5  | 13.7, | 275.8, | 314.0, | -189.8, | 75.2,  | 6  | 13.7, | 236.4, | 332.7, | -211.9, | 68.5,  |
| 7  | 13.7, | 189.9, | 341.3, | -227.6, | 59.7,  | 8  | 13.7, | 138.4, | 339.6, | -236.4, | 49.5,  |
| 9  | 13.7, | 101.5, | 333.6, | -240.3, | 39.0,  | 10 | 13.7, | 154.2, | 341.4, | -248.9, | 24.2,  |
| 11 | 13.7, | 204.2, | 340.1, | -251.2, | 9.7,   | 12 | 13.7, | 248.8, | 328.4, | -245.8, | -4.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -233.0, | -19.1, | 14 | 13.7, | 314.0, | 275.8, | -213.1, | -32.8, |
| 15 | 13.7, | 332.7, | 236.4, | -186.7, | -45.6, | 16 | 13.7, | 341.3, | 189.9, | -154.7, | -57.0, |
| 17 | 13.7, | 339.6, | 138.4, | -118.7, | -66.6, | 18 | 13.7, | 333.6, | 101.5, | -89.8,  | -73.5, |
| 19 | 13.7, | 341.4, | 154.2, | -101.3, | -78.2, | 20 | 13.7, | 340.1, | 204.2, | -111.9, | -81.1, |
| 21 | 13.7, | 328.4, | 248.8, | -119.6, | -81.6, | 22 | 13.7, | 306.8, | 285.7, | -123.8, | -79.6, |
| 23 | 13.7, | 275.8, | 314.0, | -124.1, | -75.2, | 24 | 13.7, | 236.4, | 332.7, | -120.8, | -68.5, |
| 25 | 13.7, | 189.9, | 341.3, | -113.7, | -59.7, | 26 | 13.7, | 138.4, | 339.6, | -103.2, | -49.5, |
| 27 | 13.7, | 101.5, | 333.6, | -93.3,  | -39.0, | 28 | 13.7, | 154.2, | 341.4, | -92.5,  | -24.2, |
| 29 | 13.7, | 204.2, | 340.1, | -88.9,  | -9.7,  | 30 | 13.7, | 248.8, | 328.4, | -82.6,  | 4.7,   |
| 31 | 13.7, | 285.7, | 306.8, | -73.8,  | 19.1,  | 32 | 13.7, | 314.0, | 275.8, | -62.7,  | 32.8,  |
| 33 | 13.7, | 332.7, | 236.4, | -49.7,  | 45.6,  | 34 | 13.7, | 341.3, | 189.9, | -35.2,  | 57.0,  |
| 35 | 13.7, | 339.6, | 138.4, | -19.7,  | 66.6,  | 36 | 13.7, | 333.6, | 101.5, | -11.7,  | 73.5,  |

SOURCE ID: TRU41

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -54.6,  | 85.8,  | 2   | 13.7, | 340.1, | 204.2, | -95.4,  | 88.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -133.3, | 88.1,  | 4   | 13.7, | 306.8, | 285.7, | -167.2, | 85.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -196.0, | 79.9,  | 6   | 13.7, | 236.4, | 332.7, | -218.8, | 72.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -235.0, | 62.0,  | 8   | 13.7, | 138.4, | 339.6, | -244.1, | 50.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -248.0, | 38.6,  | 10  | 13.7, | 154.2, | 341.4, | -256.5, | 22.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -258.3, | 6.7,   | 12  | 13.7, | 248.8, | 328.4, | -252.3, | -9.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -238.7, | -24.4, | 14  | 13.7, | 314.0, | 275.8, | -217.8, | -39.0, |
| 15  | 13.7, | 332.7, | 236.4, | -190.2, | -52.5, | 16  | 13.7, | 341.3, | 189.9, | -156.9, | -64.4, |
| 17  | 13.7, | 339.6, | 138.4, | -119.6, | -74.3, | 18  | 13.7, | 333.6, | 101.5, | -89.4,  | -81.2, |
| 19  | 13.7, | 341.4, | 154.2, | -99.6,  | -85.8, | 20  | 13.7, | 340.1, | 204.2, | -108.8, | -88.3, |
| 21  | 13.7, | 328.4, | 248.8, | -115.4, | -88.1, | 22  | 13.7, | 306.8, | 285.7, | -118.5, | -85.3, |
| 23  | 13.7, | 275.8, | 314.0, | -118.0, | -79.9, | 24  | 13.7, | 236.4, | 332.7, | -113.8, | -72.0, |
| 25  | 13.7, | 189.9, | 341.3, | -106.3, | -62.0, | 26  | 13.7, | 138.4, | 339.6, | -95.5,  | -50.4, |
| 27  | 13.7, | 101.5, | 333.6, | -85.5,  | -38.6, | 28  | 13.7, | 154.2, | 341.4, | -84.9,  | -22.5, |
| 29  | 13.7, | 204.2, | 340.1, | -81.7,  | -6.7,  | 30  | 13.7, | 248.8, | 328.4, | -76.0,  | 9.0,   |
| 31  | 13.7, | 285.7, | 306.8, | -68.1,  | 24.4,  | 32  | 13.7, | 314.0, | 275.8, | -58.0,  | 39.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -46.2,  | 52.5,  | 34  | 13.7, | 341.3, | 189.9, | -32.9,  | 64.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.7,  | 74.3,  | 36  | 13.7, | 333.6, | 101.5, | -12.1,  | 81.2,  |

SOURCE ID: TRU42

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -55.2,  | 89.7,  | 2   | 13.7, | 340.1, | 204.2, | -96.7,  | 92.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -135.3, | 91.6,  | 4   | 13.7, | 306.8, | 285.7, | -169.7, | 88.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -199.0, | 82.5,  | 6   | 13.7, | 236.4, | 332.7, | -222.3, | 74.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -238.8, | 63.4,  | 8   | 13.7, | 138.4, | 339.6, | -248.0, | 51.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -252.0, | 38.7,  | 10  | 13.7, | 154.2, | 341.4, | -260.4, | 21.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -262.1, | 5.4,   | 12  | 13.7, | 248.8, | 328.4, | -255.8, | -10.9, |
| 13  | 13.7, | 285.7, | 306.8, | -241.8, | -26.9, | 14  | 13.7, | 314.0, | 275.8, | -220.4, | -42.0, |
| 15  | 13.7, | 332.7, | 236.4, | -192.3, | -55.9, | 16  | 13.7, | 341.3, | 189.9, | -158.3, | -68.1, |
| 17  | 13.7, | 339.6, | 138.4, | -120.3, | -78.2, | 18  | 13.7, | 333.6, | 101.5, | -89.4,  | -85.2, |
| 19  | 13.7, | 341.4, | 154.2, | -98.9,  | -89.7, | 20  | 13.7, | 340.1, | 204.2, | -107.5, | -92.0, |
| 21  | 13.7, | 328.4, | 248.8, | -113.5, | -91.6, | 22  | 13.7, | 306.8, | 285.7, | -116.0, | -88.4, |
| 23  | 13.7, | 275.8, | 314.0, | -114.9, | -82.5, | 24  | 13.7, | 236.4, | 332.7, | -110.4, | -74.0, |
| 25  | 13.7, | 189.9, | 341.3, | -102.5, | -63.4, | 26  | 13.7, | 138.4, | 339.6, | -91.6,  | -51.2, |
| 27  | 13.7, | 101.5, | 333.6, | -81.6,  | -38.7, | 28  | 13.7, | 154.2, | 341.4, | -81.0,  | -21.8, |
| 29  | 13.7, | 204.2, | 340.1, | -78.0,  | -5.4,  | 30  | 13.7, | 248.8, | 328.4, | -72.6,  | 10.9,  |
| 31  | 13.7, | 285.7, | 306.8, | -65.0,  | 26.9,  | 32  | 13.7, | 314.0, | 275.8, | -55.4,  | 42.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -44.2,  | 55.9,  | 34  | 13.7, | 341.3, | 189.9, | -31.6,  | 68.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.0,  | 78.2,  | 36  | 13.7, | 333.6, | 101.5, | -12.1,  | 85.2,  |

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU43

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -56.0,  | 93.5,  | 2   | 13.7, | 340.1, | 204.2, | -98.2,  | 95.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -137.3, | 94.9,  | 4   | 13.7, | 306.8, | 285.7, | -172.3, | 91.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -202.1, | 84.9,  | 6   | 13.7, | 236.4, | 332.7, | -225.7, | 75.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -242.5, | 64.6,  | 8   | 13.7, | 138.4, | 339.6, | -251.9, | 51.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -255.9, | 38.5,  | 10  | 13.7, | 154.2, | 341.4, | -264.2, | 21.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -265.7, | 3.9,   | 12  | 13.7, | 248.8, | 328.4, | -259.1, | -13.0, |
| 13  | 13.7, | 285.7, | 306.8, | -244.7, | -29.5, | 14  | 13.7, | 314.0, | 275.8, | -222.8, | -45.1, |
| 15  | 13.7, | 332.7, | 236.4, | -194.1, | -59.4, | 16  | 13.7, | 341.3, | 189.9, | -159.6, | -71.8, |
| 17  | 13.7, | 339.6, | 138.4, | -120.9, | -82.1, | 18  | 13.7, | 333.6, | 101.5, | -89.3,  | -89.1, |
| 19  | 13.7, | 341.4, | 154.2, | -98.1,  | -93.5, | 20  | 13.7, | 340.1, | 204.2, | -106.1, | -95.7, |
| 21  | 13.7, | 328.4, | 248.8, | -111.4, | -94.9, | 22  | 13.7, | 306.8, | 285.7, | -113.4, | -91.3, |
| 23  | 13.7, | 275.8, | 314.0, | -111.9, | -84.9, | 24  | 13.7, | 236.4, | 332.7, | -107.0, | -75.9, |
| 25  | 13.7, | 189.9, | 341.3, | -98.8,  | -64.6, | 26  | 13.7, | 138.4, | 339.6, | -87.7,  | -51.7, |
| 27  | 13.7, | 101.5, | 333.6, | -77.7,  | -38.5, | 28  | 13.7, | 154.2, | 341.4, | -77.2,  | -21.1, |
| 29  | 13.7, | 204.2, | 340.1, | -74.3,  | -3.9,  | 30  | 13.7, | 248.8, | 328.4, | -69.3,  | 13.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -62.1,  | 29.5,  | 32  | 13.7, | 314.0, | 275.8, | -53.0,  | 45.1,  |
| 33  | 13.7, | 332.7, | 236.4, | -42.3,  | 59.4,  | 34  | 13.7, | 341.3, | 189.9, | -30.3,  | 71.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.4,  | 82.1,  | 36  | 13.7, | 333.6, | 101.5, | -12.2,  | 89.1,  |

SOURCE ID: TRU44

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -56.8,  | 97.3,  | 2   | 13.7, | 340.1, | 204.2, | -99.6,  | 99.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -139.3, | 98.2,  | 4   | 13.7, | 306.8, | 285.7, | -174.9, | 94.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -205.1, | 87.3,  | 6   | 13.7, | 236.4, | 332.7, | -229.1, | 77.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -246.1, | 65.9,  | 8   | 13.7, | 138.4, | 339.6, | -255.7, | 52.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -259.8, | 38.5,  | 10  | 13.7, | 154.2, | 341.4, | -268.0, | 20.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -269.3, | 2.5,   | 12  | 13.7, | 248.8, | 328.4, | -262.4, | -15.0, |
| 13  | 13.7, | 285.7, | 306.8, | -247.6, | -32.0, | 14  | 13.7, | 314.0, | 275.8, | -225.2, | -48.1, |
| 15  | 13.7, | 332.7, | 236.4, | -196.0, | -62.8, | 16  | 13.7, | 341.3, | 189.9, | -160.8, | -75.5, |
| 17  | 13.7, | 339.6, | 138.4, | -121.5, | -85.9, | 18  | 13.7, | 333.6, | 101.5, | -89.2,  | -93.0, |
| 19  | 13.7, | 341.4, | 154.2, | -97.4,  | -97.3, | 20  | 13.7, | 340.1, | 204.2, | -104.7, | -99.3, |
| 21  | 13.7, | 328.4, | 248.8, | -109.4, | -98.2, | 22  | 13.7, | 306.8, | 285.7, | -110.8, | -94.2, |
| 23  | 13.7, | 275.8, | 314.0, | -108.9, | -87.3, | 24  | 13.7, | 236.4, | 332.7, | -103.6, | -77.8, |
| 25  | 13.7, | 189.9, | 341.3, | -95.2,  | -65.9, | 26  | 13.7, | 138.4, | 339.6, | -83.9,  | -52.3, |
| 27  | 13.7, | 101.5, | 333.6, | -73.8,  | -38.5, | 28  | 13.7, | 154.2, | 341.4, | -73.4,  | -20.3, |
| 29  | 13.7, | 204.2, | 340.1, | -70.8,  | -2.5,  | 30  | 13.7, | 248.8, | 328.4, | -66.0,  | 15.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -59.2,  | 32.0,  | 32  | 13.7, | 314.0, | 275.8, | -50.6,  | 48.1,  |
| 33  | 13.7, | 332.7, | 236.4, | -40.4,  | 62.8,  | 34  | 13.7, | 341.3, | 189.9, | -29.1,  | 75.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -16.8,  | 85.9,  | 36  | 13.7, | 333.6, | 101.5, | -12.2,  | 93.0,  |

SOURCE ID: TRU45

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -57.6,  | 101.2,  | 2   | 13.7, | 340.1, | 204.2, | -101.0, | 103.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -141.4, | 101.6,  | 4   | 13.7, | 306.8, | 285.7, | -177.5, | 97.2,   |
| 5   | 13.7, | 275.8, | 314.0, | -208.2, | 89.8,   | 6   | 13.7, | 236.4, | 332.7, | -232.6, | 79.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -249.9, | 67.1,   | 8   | 13.7, | 138.4, | 339.6, | -259.6, | 52.9,   |
| 9   | 13.7, | 101.5, | 333.6, | -263.8, | 38.3,   | 10  | 13.7, | 154.2, | 341.4, | -271.9, | 19.5,   |
| 11  | 13.7, | 204.2, | 340.1, | -273.0, | 1.1,    | 12  | 13.7, | 248.8, | 328.4, | -265.8, | -17.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -250.6, | -34.7,  | 14  | 13.7, | 314.0, | 275.8, | -227.7, | -51.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -197.9, | -66.3,  | 16  | 13.7, | 341.3, | 189.9, | -162.1, | -79.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.1, | -89.8,  | 18  | 13.7, | 333.6, | 101.5, | -89.1,  | -97.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -96.6,  | -101.2, | 20  | 13.7, | 340.1, | 204.2, | -103.2, | -103.0, |
| 21  | 13.7, | 328.4, | 248.8, | -107.3, | -101.6, | 22  | 13.7, | 306.8, | 285.7, | -108.2, | -97.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -105.7, | -89.8,  | 24  | 13.7, | 236.4, | 332.7, | -100.1, | -79.7,  |

|    |       |        |        |        |        |    |       |        |        |        |        |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|
| 25 | 13.7, | 189.9, | 341.3, | -91.4, | -67.1, | 26 | 13.7, | 138.4, | 339.6, | -79.9, | -52.9, |
| 27 | 13.7, | 101.5, | 333.6, | -69.8, | -38.3, | 28 | 13.7, | 154.2, | 341.4, | -69.5, | -19.5, |
| 29 | 13.7, | 204.2, | 340.1, | -67.0, | -1.1,  | 30 | 13.7, | 248.8, | 328.4, | -62.6, | 17.1,  |
| 31 | 13.7, | 285.7, | 306.8, | -56.2, | 34.7,  | 32 | 13.7, | 314.0, | 275.8, | -48.1, | 51.2,  |
| 33 | 13.7, | 332.7, | 236.4, | -38.6, | 66.3,  | 34 | 13.7, | 341.3, | 189.9, | -27.8, | 79.3,  |
| 35 | 13.7, | 339.6, | 138.4, | -16.3, | 89.8,  | 36 | 13.7, | 333.6, | 101.5, | -12.4, | 97.0,  |

SOURCE ID: TRU46

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -58.5,  | 105.2,  | 2   | 13.7, | 340.1, | 204.2, | -102.6, | 106.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -143.6, | 105.0,  | 4   | 13.7, | 306.8, | 285.7, | -180.3, | 100.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -211.5, | 92.2,   | 6   | 13.7, | 236.4, | 332.7, | -236.2, | 81.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -253.8, | 68.3,   | 8   | 13.7, | 138.4, | 339.6, | -263.7, | 53.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -267.8, | 38.1,   | 10  | 13.7, | 154.2, | 341.4, | -275.9, | 18.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -276.8, | -0.5,   | 12  | 13.7, | 248.8, | 328.4, | -269.2, | -19.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -253.5, | -37.4,  | 14  | 13.7, | 314.0, | 275.8, | -230.1, | -54.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -199.7, | -69.9,  | 16  | 13.7, | 341.3, | 189.9, | -163.2, | -83.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.6, | -93.9,  | 18  | 13.7, | 333.6, | 101.5, | -88.9,  | -101.0, |
| 19  | 13.7, | 341.4, | 154.2, | -95.7,  | -105.2, | 20  | 13.7, | 340.1, | 204.2, | -101.6, | -106.7, |
| 21  | 13.7, | 328.4, | 248.8, | -105.1, | -105.0, | 22  | 13.7, | 306.8, | 285.7, | -105.4, | -100.1, |
| 23  | 13.7, | 275.8, | 314.0, | -102.5, | -92.2,  | 24  | 13.7, | 236.4, | 332.7, | -96.5,  | -81.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -87.5,  | -68.3,  | 26  | 13.7, | 138.4, | 339.6, | -75.9,  | -53.4,  |
| 27  | 13.7, | 101.5, | 333.6, | -65.8,  | -38.1,  | 28  | 13.7, | 154.2, | 341.4, | -65.5,  | -18.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -63.3,  | 0.5,    | 30  | 13.7, | 248.8, | 328.4, | -59.2,  | 19.3,   |
| 31  | 13.7, | 285.7, | 306.8, | -53.2,  | 37.4,   | 32  | 13.7, | 314.0, | 275.8, | -45.7,  | 54.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -36.7,  | 69.9,   | 34  | 13.7, | 341.3, | 189.9, | -26.7,  | 83.1,   |
| 35  | 13.7, | 339.6, | 138.4, | -15.8,  | 93.9,   | 36  | 13.7, | 333.6, | 101.5, | -12.6,  | 101.0,  |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

09:17:47

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 13.1,   | -102.9, | 2   | 13.7, | 340.1, | 204.2, | 3.9,    | -85.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -5.3,   | -66.0,  | 4   | 13.7, | 306.8, | 285.7, | -14.3,  | -44.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -22.9,  | -21.2,  | 6   | 13.7, | 236.4, | 332.7, | -30.9,  | 2.6,    |
| 7   | 13.7, | 189.9, | 341.3, | -37.8,  | 26.2,   | 8   | 13.7, | 138.4, | 339.6, | -43.7,  | 49.5,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -84.3,  | 106.1,  | 12  | 13.7, | 248.8, | 328.4, | -98.2,  | 119.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -109.1, | 128.5,  | 14  | 13.7, | 314.0, | 275.8, | -116.7, | 134.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -120.8, | 135.5,  | 16  | 13.7, | 341.3, | 189.9, | -121.2, | 132.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -118.6, | 126.1,  | 18  | 13.7, | 333.6, | 101.5, | -123.2, | 116.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -167.2, | 102.9,  | 20  | 13.7, | 340.1, | 204.2, | -208.2, | 85.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -243.5, | 66.0,   | 22  | 13.7, | 306.8, | 285.7, | -271.4, | 44.3,   |
| 23  | 13.7, | 275.8, | 314.0, | -291.0, | 21.2,   | 24  | 13.7, | 236.4, | 332.7, | -301.9, | -2.6,   |
| 25  | 13.7, | 189.9, | 341.3, | -303.5, | -26.2,  | 26  | 13.7, | 138.4, | 339.6, | -295.9, | -49.5,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -255.8, | -106.1, | 30  | 13.7, | 248.8, | 328.4, | -230.2, | -119.1, |
| 31  | 13.7, | 285.7, | 306.8, | -197.7, | -128.5, | 32  | 13.7, | 314.0, | 275.8, | -159.1, | -134.1, |
| 33  | 13.7, | 332.7, | 236.4, | -115.7, | -135.5, | 34  | 13.7, | 341.3, | 189.9, | -68.7,  | -132.8, |
| 35  | 13.7, | 339.6, | 138.4, | -19.7,  | -126.1, | 36  | 13.7, | 333.6, | 101.5, | 21.7,   | -116.3, |

SOURCE ID: TTP2

| IFV | BH    | BW     | BL     | XADJ  | YADJ    | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|-------|---------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 12.4, | -100.0, | 2   | 13.7, | 340.1, | 204.2, | 2.8,   | -83.1, |
| 3   | 13.7, | 328.4, | 248.8, | -6.8, | -63.6,  | 4   | 13.7, | 306.8, | 285.7, | -16.3, | -42.1, |



|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 5  | 13.7, | 275.8, | 314.0, | -25.2,  | -19.4,  | 6  | 13.7, | 236.4, | 332.7, | -33.4,  | 3.9,    |
| 7  | 13.7, | 189.9, | 341.3, | -40.6,  | 27.1,   | 8  | 13.7, | 138.4, | 339.6, | -46.6,  | 49.8,   |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11 | 13.7, | 204.2, | 340.1, | -87.0,  | 105.0,  | 12 | 13.7, | 248.8, | 328.4, | -100.6, | 117.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -111.3, | 126.6,  | 14 | 13.7, | 314.0, | 275.8, | -118.5, | 131.7,  |
| 15 | 13.7, | 332.7, | 236.4, | -122.1, | 132.9,  | 16 | 13.7, | 341.3, | 189.9, | -122.0, | 130.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -119.0, | 123.2,  | 18 | 13.7, | 333.6, | 101.5, | -123.1, | 113.4,  |
| 19 | 13.7, | 341.4, | 154.2, | -166.6, | 100.0,  | 20 | 13.7, | 340.1, | 204.2, | -207.1, | 83.1,   |
| 21 | 13.7, | 328.4, | 248.8, | -241.9, | 63.6,   | 22 | 13.7, | 306.8, | 285.7, | -269.4, | 42.1,   |
| 23 | 13.7, | 275.8, | 314.0, | -288.7, | 19.4,   | 24 | 13.7, | 236.4, | 332.7, | -299.3, | -3.9,   |
| 25 | 13.7, | 189.9, | 341.3, | -300.7, | -27.1,  | 26 | 13.7, | 138.4, | 339.6, | -293.0, | -49.8,  |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29 | 13.7, | 204.2, | 340.1, | -253.1, | -105.0, | 30 | 13.7, | 248.8, | 328.4, | -227.8, | -117.6, |
| 31 | 13.7, | 285.7, | 306.8, | -195.5, | -126.6, | 32 | 13.7, | 314.0, | 275.8, | -157.3, | -131.7, |
| 33 | 13.7, | 332.7, | 236.4, | -114.3, | -132.9, | 34 | 13.7, | 341.3, | 189.9, | -67.8,  | -130.0, |
| 35 | 13.7, | 339.6, | 138.4, | -19.3,  | -123.2, | 36 | 13.7, | 333.6, | 101.5, | 21.6,   | -113.4, |

SOURCE ID: TTP3

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 11.9,   | -97.0,  | 2   | 13.7, | 340.1, | 204.2, | 1.8,    | -80.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -8.4,   | -60.9,  | 4   | 13.7, | 306.8, | 285.7, | -18.2,  | -39.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -27.6,  | -17.4,  | 6   | 13.7, | 236.4, | 332.7, | -36.1,  | 5.4,    |
| 7   | 13.7, | 189.9, | 341.3, | -43.5,  | 28.2,   | 8   | 13.7, | 138.4, | 339.6, | -49.6,  | 50.4,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -89.8,  | 103.9,  | 12  | 13.7, | 248.8, | 328.4, | -103.3, | 116.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -113.6, | 124.6,  | 14  | 13.7, | 314.0, | 275.8, | -120.5, | 129.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -123.6, | 130.3,  | 16  | 13.7, | 341.3, | 189.9, | -123.1, | 127.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -119.6, | 120.2,  | 18  | 13.7, | 333.6, | 101.5, | -123.1, | 110.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -166.0, | 97.0,   | 20  | 13.7, | 340.1, | 204.2, | -206.1, | 80.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -240.4, | 60.9,   | 22  | 13.7, | 306.8, | 285.7, | -267.5, | 39.8,   |
| 23  | 13.7, | 275.8, | 314.0, | -286.4, | 17.4,   | 24  | 13.7, | 236.4, | 332.7, | -296.6, | -5.4,   |
| 25  | 13.7, | 189.9, | 341.3, | -297.8, | -28.2,  | 26  | 13.7, | 138.4, | 339.6, | -290.0, | -50.4,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -250.2, | -103.9, | 30  | 13.7, | 248.8, | 328.4, | -225.1, | -116.0, |
| 31  | 13.7, | 285.7, | 306.8, | -193.2, | -124.6, | 32  | 13.7, | 314.0, | 275.8, | -155.3, | -129.4, |
| 33  | 13.7, | 332.7, | 236.4, | -112.8, | -130.3, | 34  | 13.7, | 341.3, | 189.9, | -66.8,  | -127.2, |
| 35  | 13.7, | 339.6, | 138.4, | -18.8,  | -120.2, | 36  | 13.7, | 333.6, | 101.5, | 21.6,   | -110.3, |

SOURCE ID: TTP4

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 11.1,   | -94.0,  | 2   | 13.7, | 340.1, | 204.2, | 0.5,    | -77.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -10.1,  | -58.3,  | 4   | 13.7, | 306.8, | 285.7, | -20.5,  | -37.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -30.2,  | -15.6,  | 6   | 13.7, | 236.4, | 332.7, | -38.9,  | 6.8,    |
| 7   | 13.7, | 189.9, | 341.3, | -46.5,  | 29.0,   | 8   | 13.7, | 138.4, | 339.6, | -52.7,  | 50.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -92.7,  | 102.6,  | 12  | 13.7, | 248.8, | 328.4, | -105.9, | 114.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -115.9, | 122.4,  | 14  | 13.7, | 314.0, | 275.8, | -122.3, | 126.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -125.0, | 127.4,  | 16  | 13.7, | 341.3, | 189.9, | -123.9, | 124.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -119.9, | 117.1,  | 18  | 13.7, | 333.6, | 101.5, | -122.8, | 107.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -165.2, | 94.0,   | 20  | 13.7, | 340.1, | 204.2, | -204.7, | 77.3,   |
| 21  | 13.7, | 328.4, | 248.8, | -238.6, | 58.3,   | 22  | 13.7, | 306.8, | 285.7, | -265.2, | 37.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -283.8, | 15.6,   | 24  | 13.7, | 236.4, | 332.7, | -293.8, | -6.8,   |
| 25  | 13.7, | 189.9, | 341.3, | -294.8, | -29.0,  | 26  | 13.7, | 138.4, | 339.6, | -286.8, | -50.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -247.4, | -102.6, | 30  | 13.7, | 248.8, | 328.4, | -222.5, | -114.2, |
| 31  | 13.7, | 285.7, | 306.8, | -190.9, | -122.4, | 32  | 13.7, | 314.0, | 275.8, | -153.5, | -126.8, |
| 33  | 13.7, | 332.7, | 236.4, | -111.4, | -127.4, | 34  | 13.7, | 341.3, | 189.9, | -66.0,  | -124.1, |
| 35  | 13.7, | 339.6, | 138.4, | -18.5,  | -117.1, | 36  | 13.7, | 333.6, | 101.5, | 21.4,   | -107.2, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP5

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 10.5,   | -91.0,  | 2   | 13.7, | 340.1, | 204.2, | -0.7,   | -74.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -11.8,  | -55.7,  | 4   | 13.7, | 306.8, | 285.7, | -22.5,  | -35.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -32.6,  | -13.7,  | 6   | 13.7, | 236.4, | 332.7, | -41.6,  | 8.2,    |
| 7   | 13.7, | 189.9, | 341.3, | -49.4,  | 29.9,   | 8   | 13.7, | 138.4, | 339.6, | -55.7,  | 51.1,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -95.5,  | 101.5,  | 12  | 13.7, | 248.8, | 328.4, | -108.5, | 112.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -118.1, | 120.3,  | 14  | 13.7, | 314.0, | 275.8, | -124.2, | 124.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.4, | 124.7,  | 16  | 13.7, | 341.3, | 189.9, | -124.9, | 121.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -120.3, | 114.0,  | 18  | 13.7, | 333.6, | 101.5, | -122.7, | 104.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -164.6, | 91.0,   | 20  | 13.7, | 340.1, | 204.2, | -203.6, | 74.5,   |
| 21  | 13.7, | 328.4, | 248.8, | -237.0, | 55.7,   | 22  | 13.7, | 306.8, | 285.7, | -263.2, | 35.3,   |
| 23  | 13.7, | 275.8, | 314.0, | -281.4, | 13.7,   | 24  | 13.7, | 236.4, | 332.7, | -291.1, | -8.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -291.9, | -29.9,  | 26  | 13.7, | 138.4, | 339.6, | -283.8, | -51.1,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -244.5, | -101.5, | 30  | 13.7, | 248.8, | 328.4, | -219.9, | -112.6, |
| 31  | 13.7, | 285.7, | 306.8, | -188.6, | -120.3, | 32  | 13.7, | 314.0, | 275.8, | -151.6, | -124.4, |
| 33  | 13.7, | 332.7, | 236.4, | -110.0, | -124.7, | 34  | 13.7, | 341.3, | 189.9, | -65.0,  | -121.2, |
| 35  | 13.7, | 339.6, | 138.4, | -18.1,  | -114.0, | 36  | 13.7, | 333.6, | 101.5, | 21.2,   | -104.1, |

SOURCE ID: TTP6

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 10.1,   | -88.1,  | 2   | 13.7, | 340.1, | 204.2, | -1.6,   | -71.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -13.1,  | -53.1,  | 4   | 13.7, | 306.8, | 285.7, | -24.3,  | -32.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -34.7,  | -11.8,  | 6   | 13.7, | 236.4, | 332.7, | -44.1,  | 9.8,    |
| 7   | 13.7, | 189.9, | 341.3, | -52.1,  | 31.0,   | 8   | 13.7, | 138.4, | 339.6, | -58.6,  | 51.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -98.3,  | 100.6,  | 12  | 13.7, | 248.8, | 328.4, | -111.1, | 111.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -120.4, | 118.5,  | 14  | 13.7, | 314.0, | 275.8, | -126.1, | 122.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -128.0, | 122.2,  | 16  | 13.7, | 341.3, | 189.9, | -126.0, | 118.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -120.9, | 111.2,  | 18  | 13.7, | 333.6, | 101.5, | -122.8, | 101.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -164.2, | 88.1,   | 20  | 13.7, | 340.1, | 204.2, | -202.7, | 71.7,   |
| 21  | 13.7, | 328.4, | 248.8, | -235.6, | 53.1,   | 22  | 13.7, | 306.8, | 285.7, | -261.4, | 32.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -279.2, | 11.8,   | 24  | 13.7, | 236.4, | 332.7, | -288.6, | -9.8,   |
| 25  | 13.7, | 189.9, | 341.3, | -289.2, | -31.0,  | 26  | 13.7, | 138.4, | 339.6, | -281.0, | -51.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -241.7, | -100.6, | 30  | 13.7, | 248.8, | 328.4, | -217.3, | -111.2, |
| 31  | 13.7, | 285.7, | 306.8, | -186.3, | -118.5, | 32  | 13.7, | 314.0, | 275.8, | -149.7, | -122.2, |
| 33  | 13.7, | 332.7, | 236.4, | -108.4, | -122.2, | 34  | 13.7, | 341.3, | 189.9, | -63.9,  | -118.5, |
| 35  | 13.7, | 339.6, | 138.4, | -17.5,  | -111.2, | 36  | 13.7, | 333.6, | 101.5, | 21.4,   | -101.2, |

SOURCE ID: TTP7

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 9.3,    | -85.3, | 2   | 13.7, | 340.1, | 204.2, | -2.8,   | -69.0, |
| 3   | 13.7, | 328.4, | 248.8, | -14.8,  | -50.7, | 4   | 13.7, | 306.8, | 285.7, | -26.4,  | -30.9, |
| 5   | 13.7, | 275.8, | 314.0, | -37.1,  | -10.1, | 6   | 13.7, | 236.4, | 332.7, | -46.8,  | 11.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -55.0,  | 31.8,  | 8   | 13.7, | 138.4, | 339.6, | -61.5,  | 52.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -101.0, | 99.3,  | 12  | 13.7, | 248.8, | 328.4, | -113.5, | 109.6, |
| 13  | 13.7, | 285.7, | 306.8, | -122.5, | 116.5, | 14  | 13.7, | 314.0, | 275.8, | -127.8, | 119.9, |
| 15  | 13.7, | 332.7, | 236.4, | -129.2, | 119.6, | 16  | 13.7, | 341.3, | 189.9, | -126.8, | 115.7, |
| 17  | 13.7, | 339.6, | 138.4, | -121.2, | 108.3, | 18  | 13.7, | 333.6, | 101.5, | -122.6, | 98.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -163.5, | 85.3,  | 20  | 13.7, | 340.1, | 204.2, | -201.5, | 69.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -234.0, | 50.7,  | 22  | 13.7, | 306.8, | 285.7, | -259.3, | 30.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -276.9, | 10.1,  | 24  | 13.7, | 236.4, | 332.7, | -285.9, | -11.0, |
| 25  | 13.7, | 189.9, | 341.3, | -286.3, | -31.8, | 26  | 13.7, | 138.4, | 339.6, | -278.0, | -52.0, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 29 | 13.7, | 204.2, | 340.1, | -239.1, | -99.3,  | 30 | 13.7, | 248.8, | 328.4, | -214.9, | -109.6, |
| 31 | 13.7, | 285.7, | 306.8, | -184.2, | -116.5, | 32 | 13.7, | 314.0, | 275.8, | -148.0, | -119.9, |
| 33 | 13.7, | 332.7, | 236.4, | -107.2, | -119.6, | 34 | 13.7, | 341.3, | 189.9, | -63.1,  | -115.7, |
| 35 | 13.7, | 339.6, | 138.4, | -17.2,  | -108.3, | 36 | 13.7, | 333.6, | 101.5, | 21.1,   | -98.3,  |

SOURCE ID: TTP8

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 8.7,    | -82.4,  | 2   | 13.7, | 340.1, | 204.2, | -3.9,   | -66.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -16.4,  | -48.2,  | 4   | 13.7, | 306.8, | 285.7, | -28.3,  | -28.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -39.4,  | -8.3,   | 6   | 13.7, | 236.4, | 332.7, | -49.3,  | 12.4,   |
| 7   | 13.7, | 189.9, | 341.3, | -57.8,  | 32.7,   | 8   | 13.7, | 138.4, | 339.6, | -64.4,  | 52.4,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -103.7, | 98.2,   | 12  | 13.7, | 248.8, | 328.4, | -116.0, | 108.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -124.7, | 114.5,  | 14  | 13.7, | 314.0, | 275.8, | -129.6, | 117.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -130.6, | 117.0,  | 16  | 13.7, | 341.3, | 189.9, | -127.6, | 112.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -121.6, | 105.4,  | 18  | 13.7, | 333.6, | 101.5, | -122.5, | 95.3,   |
| 19  | 13.7, | 341.4, | 154.2, | -162.8, | 82.4,   | 20  | 13.7, | 340.1, | 204.2, | -200.4, | 66.3,   |
| 21  | 13.7, | 328.4, | 248.8, | -232.4, | 48.2,   | 22  | 13.7, | 306.8, | 285.7, | -257.4, | 28.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -274.5, | 8.3,    | 24  | 13.7, | 236.4, | 332.7, | -283.3, | -12.4,  |
| 25  | 13.7, | 189.9, | 341.3, | -283.6, | -32.7,  | 26  | 13.7, | 138.4, | 339.6, | -275.1, | -52.4,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -236.4, | -98.2,  | 30  | 13.7, | 248.8, | 328.4, | -212.4, | -108.0, |
| 31  | 13.7, | 285.7, | 306.8, | -182.1, | -114.5, | 32  | 13.7, | 314.0, | 275.8, | -146.2, | -117.5, |
| 33  | 13.7, | 332.7, | 236.4, | -105.8, | -117.0, | 34  | 13.7, | 341.3, | 189.9, | -62.2,  | -112.9, |
| 35  | 13.7, | 339.6, | 138.4, | -16.8,  | -105.4, | 36  | 13.7, | 333.6, | 101.5, | 21.0,   | -95.3,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 67

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP9

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 8.2,    | -79.4,  | 2   | 13.7, | 340.1, | 204.2, | -4.9,   | -63.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -17.9,  | -45.6,  | 4   | 13.7, | 306.8, | 285.7, | -30.3,  | -26.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -41.8,  | -6.3,   | 6   | 13.7, | 236.4, | 332.7, | -52.0,  | 13.9,   |
| 7   | 13.7, | 189.9, | 341.3, | -60.6,  | 33.7,   | 8   | 13.7, | 138.4, | 339.6, | -67.4,  | 52.9,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -106.6, | 97.2,   | 12  | 13.7, | 248.8, | 328.4, | -118.6, | 106.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -127.0, | 112.6,  | 14  | 13.7, | 314.0, | 275.8, | -131.6, | 115.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -132.1, | 114.4,  | 16  | 13.7, | 341.3, | 189.9, | -128.7, | 110.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.1, | 102.4,  | 18  | 13.7, | 333.6, | 101.5, | -122.5, | 92.3,   |
| 19  | 13.7, | 341.4, | 154.2, | -162.3, | 79.4,   | 20  | 13.7, | 340.1, | 204.2, | -199.3, | 63.5,   |
| 21  | 13.7, | 328.4, | 248.8, | -230.9, | 45.6,   | 22  | 13.7, | 306.8, | 285.7, | -255.4, | 26.4,   |
| 23  | 13.7, | 275.8, | 314.0, | -272.2, | 6.3,    | 24  | 13.7, | 236.4, | 332.7, | -280.7, | -13.9,  |
| 25  | 13.7, | 189.9, | 341.3, | -280.7, | -33.7,  | 26  | 13.7, | 138.4, | 339.6, | -272.1, | -52.9,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -233.5, | -97.2,  | 30  | 13.7, | 248.8, | 328.4, | -209.8, | -106.5, |
| 31  | 13.7, | 285.7, | 306.8, | -179.7, | -112.6, | 32  | 13.7, | 314.0, | 275.8, | -144.2, | -115.2, |
| 33  | 13.7, | 332.7, | 236.4, | -104.3, | -114.4, | 34  | 13.7, | 341.3, | 189.9, | -61.2,  | -110.0, |
| 35  | 13.7, | 339.6, | 138.4, | -16.3,  | -102.4, | 36  | 13.7, | 333.6, | 101.5, | 21.0,   | -92.3,  |

SOURCE ID: TTP10

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 7.4,   | -76.3, | 2   | 13.7, | 340.1, | 204.2, | -6.3,  | -60.6, |
| 3   | 13.7, | 328.4, | 248.8, | -19.7, | -43.0, | 4   | 13.7, | 306.8, | 285.7, | -32.5, | -24.1, |
| 5   | 13.7, | 275.8, | 314.0, | -44.4, | -4.5,  | 6   | 13.7, | 236.4, | 332.7, | -54.9, | 15.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -63.7, | 34.6,  | 8   | 13.7, | 138.4, | 339.6, | -70.6, | 53.2,  |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11 | 13.7, | 204.2, | 340.1, | -109.5, | 95.9,   | 12 | 13.7, | 248.8, | 328.4, | -121.2, | 104.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -129.3, | 110.3,  | 14 | 13.7, | 314.0, | 275.8, | -133.4, | 112.6,  |
| 15 | 13.7, | 332.7, | 236.4, | -133.5, | 111.5,  | 16 | 13.7, | 341.3, | 189.9, | -129.5, | 107.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -122.4, | 99.2,   | 18 | 13.7, | 333.6, | 101.5, | -122.2, | 89.1,   |
| 19 | 13.7, | 341.4, | 154.2, | -161.5, | 76.3,   | 20 | 13.7, | 340.1, | 204.2, | -198.0, | 60.6,   |
| 21 | 13.7, | 328.4, | 248.8, | -229.1, | 43.0,   | 22 | 13.7, | 306.8, | 285.7, | -253.2, | 24.1,   |
| 23 | 13.7, | 275.8, | 314.0, | -269.6, | 4.5,    | 24 | 13.7, | 236.4, | 332.7, | -277.8, | -15.3,  |
| 25 | 13.7, | 189.9, | 341.3, | -277.6, | -34.6,  | 26 | 13.7, | 138.4, | 339.6, | -269.0, | -53.2,  |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29 | 13.7, | 204.2, | 340.1, | -230.6, | -95.9,  | 30 | 13.7, | 248.8, | 328.4, | -207.2, | -104.7, |
| 31 | 13.7, | 285.7, | 306.8, | -177.5, | -110.3, | 32 | 13.7, | 314.0, | 275.8, | -142.4, | -112.6, |
| 33 | 13.7, | 332.7, | 236.4, | -102.9, | -111.5, | 34 | 13.7, | 341.3, | 189.9, | -60.4,  | -107.0, |
| 35 | 13.7, | 339.6, | 138.4, | -16.0,  | -99.2,  | 36 | 13.7, | 333.6, | 101.5, | 20.8,   | -89.1,  |

SOURCE ID: TTP11

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 6.7,    | -73.3,  | 2   | 13.7, | 340.1, | 204.2, | -7.4,   | -57.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -21.3,  | -40.4,  | 4   | 13.7, | 306.8, | 285.7, | -34.6,  | -21.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -46.8,  | -2.6,   | 6   | 13.7, | 236.4, | 332.7, | -57.5,  | 16.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -66.6,  | 35.5,   | 8   | 13.7, | 138.4, | 339.6, | -73.6,  | 53.6,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -97.3,  | 83.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -112.3, | 94.7,   | 12  | 13.7, | 248.8, | 328.4, | -123.8, | 103.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -131.5, | 108.3,  | 14  | 13.7, | 314.0, | 275.8, | -135.3, | 110.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -134.9, | 108.8,  | 16  | 13.7, | 341.3, | 189.9, | -130.5, | 104.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.8, | 96.2,   | 18  | 13.7, | 333.6, | 101.5, | -122.1, | 86.1,   |
| 19  | 13.7, | 341.4, | 154.2, | -160.9, | 73.3,   | 20  | 13.7, | 340.1, | 204.2, | -196.8, | 57.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -227.4, | 40.4,   | 22  | 13.7, | 306.8, | 285.7, | -251.1, | 21.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -267.2, | 2.6,    | 24  | 13.7, | 236.4, | 332.7, | -275.1, | -16.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -274.7, | -35.5,  | 26  | 13.7, | 138.4, | 339.6, | -266.0, | -53.6,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -244.1, | -83.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -227.8, | -94.7,  | 30  | 13.7, | 248.8, | 328.4, | -204.6, | -103.1, |
| 31  | 13.7, | 285.7, | 306.8, | -175.2, | -108.3, | 32  | 13.7, | 314.0, | 275.8, | -140.5, | -110.2, |
| 33  | 13.7, | 332.7, | 236.4, | -101.5, | -108.8, | 34  | 13.7, | 341.3, | 189.9, | -59.4,  | -104.1, |
| 35  | 13.7, | 339.6, | 138.4, | -15.6,  | -96.2,  | 36  | 13.7, | 333.6, | 101.5, | 20.6,   | -86.1,  |

SOURCE ID: TTP12

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 6.3,    | -70.5,  | 2   | 13.7, | 340.1, | 204.2, | -8.3,   | -55.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -22.7,  | -37.8,  | 4   | 13.7, | 306.8, | 285.7, | -36.3,  | -19.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -48.9,  | -0.6,   | 6   | 13.7, | 236.4, | 332.7, | -60.0,  | 18.3,   |
| 7   | 13.7, | 189.9, | 341.3, | -69.3,  | 36.6,   | 8   | 13.7, | 138.4, | 339.6, | -76.5,  | 54.2,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -100.2, | 83.4,   |
| 11  | 13.7, | 204.2, | 340.1, | -115.0, | 93.8,   | 12  | 13.7, | 248.8, | 328.4, | -126.4, | 101.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -133.8, | 106.5,  | 14  | 13.7, | 314.0, | 275.8, | -137.2, | 108.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -136.5, | 106.3,  | 16  | 13.7, | 341.3, | 189.9, | -131.6, | 101.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -123.4, | 93.3,   | 18  | 13.7, | 333.6, | 101.5, | -122.2, | 83.2,   |
| 19  | 13.7, | 341.4, | 154.2, | -160.5, | 70.5,   | 20  | 13.7, | 340.1, | 204.2, | -196.0, | 55.0,   |
| 21  | 13.7, | 328.4, | 248.8, | -226.1, | 37.8,   | 22  | 13.7, | 306.8, | 285.7, | -249.4, | 19.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -265.0, | 0.6,    | 24  | 13.7, | 236.4, | 332.7, | -272.7, | -18.3,  |
| 25  | 13.7, | 189.9, | 341.3, | -272.0, | -36.6,  | 26  | 13.7, | 138.4, | 339.6, | -263.1, | -54.2,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -241.2, | -83.4,  |
| 29  | 13.7, | 204.2, | 340.1, | -225.0, | -93.8,  | 30  | 13.7, | 248.8, | 328.4, | -202.0, | -101.7, |
| 31  | 13.7, | 285.7, | 306.8, | -172.9, | -106.5, | 32  | 13.7, | 314.0, | 275.8, | -138.5, | -108.1, |
| 33  | 13.7, | 332.7, | 236.4, | -99.9,  | -106.3, | 34  | 13.7, | 341.3, | 189.9, | -58.3,  | -101.4, |
| 35  | 13.7, | 339.6, | 138.4, | -14.9,  | -93.3,  | 36  | 13.7, | 333.6, | 101.5, | 20.8,   | -83.2,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:17:47

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP13

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 5.6,    | -67.2,  | 2   | 13.7, | 340.1, | 204.2, | -9.5,   | -51.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -24.4,  | -35.0,  | 4   | 13.7, | 306.8, | 285.7, | -38.6,  | -17.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -51.5,  | 1.4,    | 6   | 13.7, | 236.4, | 332.7, | -62.9,  | 19.8,   |
| 7   | 13.7, | 189.9, | 341.3, | -72.4,  | 37.6,   | 8   | 13.7, | 138.4, | 339.6, | -79.7,  | 54.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -103.5, | 82.7,   |
| 11  | 13.7, | 204.2, | 340.1, | -118.1, | 92.6,   | 12  | 13.7, | 248.8, | 328.4, | -129.2, | 100.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -136.3, | 104.3,  | 14  | 13.7, | 314.0, | 275.8, | -139.3, | 105.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -138.0, | 103.4,  | 16  | 13.7, | 341.3, | 189.9, | -132.6, | 98.2,   |
| 17  | 13.7, | 339.6, | 138.4, | -123.9, | 90.1,   | 18  | 13.7, | 333.6, | 101.5, | -122.1, | 79.9,   |
| 19  | 13.7, | 341.4, | 154.2, | -159.8, | 67.2,   | 20  | 13.7, | 340.1, | 204.2, | -194.7, | 51.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -224.3, | 35.0,   | 22  | 13.7, | 306.8, | 285.7, | -247.2, | 17.1,   |
| 23  | 13.7, | 275.8, | 314.0, | -262.4, | -1.4,   | 24  | 13.7, | 236.4, | 332.7, | -269.8, | -19.8,  |
| 25  | 13.7, | 189.9, | 341.3, | -268.9, | -37.6,  | 26  | 13.7, | 138.4, | 339.6, | -259.9, | -54.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -237.9, | -82.7,  |
| 29  | 13.7, | 204.2, | 340.1, | -222.0, | -92.6,  | 30  | 13.7, | 248.8, | 328.4, | -199.2, | -100.0, |
| 31  | 13.7, | 285.7, | 306.8, | -170.5, | -104.3, | 32  | 13.7, | 314.0, | 275.8, | -136.5, | -105.5, |
| 33  | 13.7, | 332.7, | 236.4, | -98.4,  | -103.4, | 34  | 13.7, | 341.3, | 189.9, | -57.3,  | -98.2,  |
| 35  | 13.7, | 339.6, | 138.4, | -14.5,  | -90.1,  | 36  | 13.7, | 333.6, | 101.5, | 20.6,   | -79.9,  |

SOURCE ID: TTP14

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 5.0,    | -64.4,  | 2   | 13.7, | 340.1, | 204.2, | -10.6,  | -49.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -26.0,  | -32.6,  | 4   | 13.7, | 306.8, | 285.7, | -40.5,  | -14.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -53.8,  | 3.2,    | 6   | 13.7, | 236.4, | 332.7, | -65.5,  | 21.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -75.2,  | 38.5,   | 8   | 13.7, | 138.4, | 339.6, | -82.6,  | 55.1,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -106.3, | 82.1,   |
| 11  | 13.7, | 204.2, | 340.1, | -120.8, | 91.5,   | 12  | 13.7, | 248.8, | 328.4, | -131.6, | 98.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -138.4, | 102.3,  | 14  | 13.7, | 314.0, | 275.8, | -141.1, | 103.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -139.4, | 100.8,  | 16  | 13.7, | 341.3, | 189.9, | -133.5, | 95.5,   |
| 17  | 13.7, | 339.6, | 138.4, | -124.3, | 87.2,   | 18  | 13.7, | 333.6, | 101.5, | -122.0, | 77.0,   |
| 19  | 13.7, | 341.4, | 154.2, | -159.2, | 64.4,   | 20  | 13.7, | 340.1, | 204.2, | -193.6, | 49.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -222.8, | 32.6,   | 22  | 13.7, | 306.8, | 285.7, | -245.2, | 14.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -260.1, | -3.2,   | 24  | 13.7, | 236.4, | 332.7, | -267.2, | -21.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -266.1, | -38.5,  | 26  | 13.7, | 138.4, | 339.6, | -256.9, | -55.1,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -235.1, | -82.1,  |
| 29  | 13.7, | 204.2, | 340.1, | -219.3, | -91.5,  | 30  | 13.7, | 248.8, | 328.4, | -196.8, | -98.4,  |
| 31  | 13.7, | 285.7, | 306.8, | -168.3, | -102.3, | 32  | 13.7, | 314.0, | 275.8, | -134.7, | -103.1, |
| 33  | 13.7, | 332.7, | 236.4, | -97.0,  | -100.8, | 34  | 13.7, | 341.3, | 189.9, | -56.4,  | -95.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -14.1,  | -87.2,  | 36  | 13.7, | 333.6, | 101.5, | 20.5,   | -77.0,  |

SOURCE ID: TTP15

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 4.5,    | -61.4,  | 2   | 13.7, | 340.1, | 204.2, | -11.7,  | -46.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -27.5,  | -29.9,  | 4   | 13.7, | 306.8, | 285.7, | -42.5,  | -12.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -56.2,  | 5.1,    | 6   | 13.7, | 236.4, | 332.7, | -68.2,  | 22.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -78.1,  | 39.6,   | 8   | 13.7, | 138.4, | 339.6, | -85.6,  | 55.6,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -109.3, | 81.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -123.7, | 90.4,   | 12  | 13.7, | 248.8, | 328.4, | -134.3, | 96.9,   |
| 13  | 13.7, | 285.7, | 306.8, | -140.8, | 100.4,  | 14  | 13.7, | 314.0, | 275.8, | -143.0, | 100.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -140.9, | 98.2,   | 16  | 13.7, | 341.3, | 189.9, | -134.5, | 92.6,   |
| 17  | 13.7, | 339.6, | 138.4, | -124.8, | 84.2,   | 18  | 13.7, | 333.6, | 101.5, | -122.0, | 73.9,   |
| 19  | 13.7, | 341.4, | 154.2, | -158.6, | 61.4,   | 20  | 13.7, | 340.1, | 204.2, | -192.6, | 46.4,   |
| 21  | 13.7, | 328.4, | 248.8, | -221.2, | 29.9,   | 22  | 13.7, | 306.8, | 285.7, | -243.2, | 12.6,   |
| 23  | 13.7, | 275.8, | 314.0, | -257.8, | -5.1,   | 24  | 13.7, | 236.4, | 332.7, | -264.5, | -22.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -263.2, | -39.6,  | 26  | 13.7, | 138.4, | 339.6, | -254.0, | -55.6,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -232.1, | -81.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -216.4, | -90.4,  | 30  | 13.7, | 248.8, | 328.4, | -194.1, | -96.9,  |
| 31  | 13.7, | 285.7, | 306.8, | -166.0, | -100.4, | 32  | 13.7, | 314.0, | 275.8, | -132.8, | -100.8, |

|    |       |        |        |        |        |    |       |        |        |        |        |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|
| 33 | 13.7, | 332.7, | 236.4, | -95.5, | -98.2, | 34 | 13.7, | 341.3, | 189.9, | -55.4, | -92.6, |
| 35 | 13.7, | 339.6, | 138.4, | -13.6, | -84.2, | 36 | 13.7, | 333.6, | 101.5, | 20.5,  | -73.9, |

SOURCE ID: TTP16

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 3.7,    | -58.3, | 2   | 13.7, | 340.1, | 204.2, | -13.0,  | -43.5, |
| 3   | 13.7, | 328.4, | 248.8, | -29.3,  | -27.3, | 4   | 13.7, | 306.8, | 285.7, | -44.7,  | -10.3, |
| 5   | 13.7, | 275.8, | 314.0, | -58.8,  | 7.0,   | 6   | 13.7, | 236.4, | 332.7, | -71.0,  | 24.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -81.1,  | 40.4,  | 8   | 13.7, | 138.4, | 339.6, | -88.8,  | 55.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -112.4, | 80.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -126.6, | 89.1,  | 12  | 13.7, | 248.8, | 328.4, | -136.9, | 95.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -143.1, | 98.1,  | 14  | 13.7, | 314.0, | 275.8, | -144.9, | 98.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -142.3, | 95.3,  | 16  | 13.7, | 341.3, | 189.9, | -135.4, | 89.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.1, | 81.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.7, | 70.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -157.9, | 58.3,  | 20  | 13.7, | 340.1, | 204.2, | -191.2, | 43.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -219.5, | 27.3,  | 22  | 13.7, | 306.8, | 285.7, | -241.0, | 10.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -255.2, | -7.0,  | 24  | 13.7, | 236.4, | 332.7, | -261.7, | -24.1, |
| 25  | 13.7, | 189.9, | 341.3, | -260.2, | -40.4, | 26  | 13.7, | 138.4, | 339.6, | -250.8, | -55.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -229.0, | -80.8, |
| 29  | 13.7, | 204.2, | 340.1, | -213.5, | -89.1, | 30  | 13.7, | 248.8, | 328.4, | -191.5, | -95.1, |
| 31  | 13.7, | 285.7, | 306.8, | -163.7, | -98.1, | 32  | 13.7, | 314.0, | 275.8, | -130.9, | -98.2, |
| 33  | 13.7, | 332.7, | 236.4, | -94.1,  | -95.3, | 34  | 13.7, | 341.3, | 189.9, | -54.5,  | -89.5, |
| 35  | 13.7, | 339.6, | 138.4, | -13.2,  | -81.0, | 36  | 13.7, | 333.6, | 101.5, | 20.3,   | -70.8, |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

09:17:47

PAGE 69

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 3.0,    | -55.3, | 2   | 13.7, | 340.1, | 204.2, | -14.2,  | -40.6, |
| 3   | 13.7, | 328.4, | 248.8, | -30.9,  | -24.7, | 4   | 13.7, | 306.8, | 285.7, | -46.8,  | -8.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -61.2,  | 8.8,   | 6   | 13.7, | 236.4, | 332.7, | -73.7,  | 25.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -84.0,  | 41.3,  | 8   | 13.7, | 138.4, | 339.6, | -91.8,  | 56.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -115.4, | 80.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -129.4, | 88.0,  | 12  | 13.7, | 248.8, | 328.4, | -139.5, | 93.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -145.3, | 96.1,  | 14  | 13.7, | 314.0, | 275.8, | -146.7, | 95.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -143.7, | 92.6,  | 16  | 13.7, | 341.3, | 189.9, | -136.3, | 86.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.5, | 78.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.6, | 67.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -157.2, | 55.3,  | 20  | 13.7, | 340.1, | 204.2, | -190.1, | 40.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -217.8, | 24.7,  | 22  | 13.7, | 306.8, | 285.7, | -239.0, | 8.1,   |
| 23  | 13.7, | 275.8, | 314.0, | -252.8, | -8.8,  | 24  | 13.7, | 236.4, | 332.7, | -259.0, | -25.5, |
| 25  | 13.7, | 189.9, | 341.3, | -257.3, | -41.3, | 26  | 13.7, | 138.4, | 339.6, | -247.8, | -56.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -226.0, | -80.1, |
| 29  | 13.7, | 204.2, | 340.1, | -210.7, | -88.0, | 30  | 13.7, | 248.8, | 328.4, | -188.9, | -93.5, |
| 31  | 13.7, | 285.7, | 306.8, | -161.4, | -96.1, | 32  | 13.7, | 314.0, | 275.8, | -129.1, | -95.8, |
| 33  | 13.7, | 332.7, | 236.4, | -92.7,  | -92.6, | 34  | 13.7, | 341.3, | 189.9, | -53.6,  | -86.6, |
| 35  | 13.7, | 339.6, | 138.4, | -12.8,  | -78.0, | 36  | 13.7, | 333.6, | 101.5, | 20.2,   | -67.7, |

SOURCE ID: TTP18

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 2.7,    | -52.4, | 2   | 13.7, | 340.1, | 204.2, | -15.0,  | -37.9, |
| 3   | 13.7, | 328.4, | 248.8, | -32.3,  | -22.1, | 4   | 13.7, | 306.8, | 285.7, | -48.5,  | -5.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -63.3,  | 10.8,  | 6   | 13.7, | 236.4, | 332.7, | -76.2,  | 27.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -86.7,  | 42.5,  | 8   | 13.7, | 138.4, | 339.6, | -94.6,  | 57.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -118.3, | 79.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -132.2, | 87.1,  | 12  | 13.7, | 248.8, | 328.4, | -142.1, | 92.1,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -147.6, | 94.3,  | 14 | 13.7, | 314.0, | 275.8, | -148.7, | 93.7,  |
| 15 | 13.7, | 332.7, | 236.4, | -145.3, | 90.2,  | 16 | 13.7, | 341.3, | 189.9, | -137.4, | 83.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -126.1, | 75.1,  | 18 | 13.7, | 333.6, | 101.5, | -121.7, | 64.8,  |
| 19 | 13.7, | 341.4, | 154.2, | -156.8, | 52.4,  | 20 | 13.7, | 340.1, | 204.2, | -189.2, | 37.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -216.5, | 22.1,  | 22 | 13.7, | 306.8, | 285.7, | -237.2, | 5.8,   |
| 23 | 13.7, | 275.8, | 314.0, | -250.6, | -10.8, | 24 | 13.7, | 236.4, | 332.7, | -256.5, | -27.1, |
| 25 | 13.7, | 189.9, | 341.3, | -254.6, | -42.5, | 26 | 13.7, | 138.4, | 339.6, | -244.9, | -57.0, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -223.1, | -79.7, |
| 29 | 13.7, | 204.2, | 340.1, | -207.9, | -87.1, | 30 | 13.7, | 248.8, | 328.4, | -186.3, | -92.1, |
| 31 | 13.7, | 285.7, | 306.8, | -159.1, | -94.3, | 32 | 13.7, | 314.0, | 275.8, | -127.1, | -93.7, |
| 33 | 13.7, | 332.7, | 236.4, | -91.2,  | -90.2, | 34 | 13.7, | 341.3, | 189.9, | -52.5,  | -83.9, |
| 35 | 13.7, | 339.6, | 138.4, | -12.2,  | -75.1, | 36 | 13.7, | 333.6, | 101.5, | 20.3,   | -64.8, |

SOURCE ID: TTP19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 1.9,    | -49.2, | 2   | 13.7, | 340.1, | 204.2, | -16.4,  | -34.9, |
| 3   | 13.7, | 328.4, | 248.8, | -34.1,  | -19.4, | 4   | 13.7, | 306.8, | 285.7, | -50.8,  | -3.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -66.0,  | 12.7,  | 6   | 13.7, | 236.4, | 332.7, | -79.2,  | 28.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -89.9,  | 43.3,  | 8   | 13.7, | 138.4, | 339.6, | -97.9,  | 57.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -121.5, | 78.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -135.2, | 85.7,  | 12  | 13.7, | 248.8, | 328.4, | -144.8, | 90.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -150.0, | 92.0,  | 14  | 13.7, | 314.0, | 275.8, | -150.6, | 91.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -146.7, | 87.2,  | 16  | 13.7, | 341.3, | 189.9, | -138.3, | 80.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -126.5, | 71.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.5, | 61.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -156.0, | 49.2,  | 20  | 13.7, | 340.1, | 204.2, | -187.9, | 34.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -214.6, | 19.4,  | 22  | 13.7, | 306.8, | 285.7, | -234.9, | 3.4,   |
| 23  | 13.7, | 275.8, | 314.0, | -248.0, | -12.7, | 24  | 13.7, | 236.4, | 332.7, | -253.5, | -28.5, |
| 25  | 13.7, | 189.9, | 341.3, | -251.4, | -43.3, | 26  | 13.7, | 138.4, | 339.6, | -241.6, | -57.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -219.9, | -78.9, |
| 29  | 13.7, | 204.2, | 340.1, | -204.9, | -85.7, | 30  | 13.7, | 248.8, | 328.4, | -183.6, | -90.2, |
| 31  | 13.7, | 285.7, | 306.8, | -156.8, | -92.0, | 32  | 13.7, | 314.0, | 275.8, | -125.1, | -91.0, |
| 33  | 13.7, | 332.7, | 236.4, | -89.7,  | -87.2, | 34  | 13.7, | 341.3, | 189.9, | -51.6,  | -80.8, |
| 35  | 13.7, | 339.6, | 138.4, | -11.9,  | -71.8, | 36  | 13.7, | 333.6, | 101.5, | 20.0,   | -61.5, |

SOURCE ID: TTP20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 1.2,    | -46.4, | 2   | 13.7, | 340.1, | 204.2, | -17.5,  | -32.1, |
| 3   | 13.7, | 328.4, | 248.8, | -35.7,  | -16.9, | 4   | 13.7, | 306.8, | 285.7, | -52.8,  | -1.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -68.3,  | 14.5,  | 6   | 13.7, | 236.4, | 332.7, | -81.8,  | 29.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -92.7,  | 44.2,  | 8   | 13.7, | 138.4, | 339.6, | -100.8, | 57.7,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -124.3, | 78.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -137.9, | 84.6,  | 12  | 13.7, | 248.8, | 328.4, | -147.2, | 88.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -152.1, | 90.0,  | 14  | 13.7, | 314.0, | 275.8, | -152.4, | 88.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -148.1, | 84.6,  | 16  | 13.7, | 341.3, | 189.9, | -139.2, | 78.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -126.9, | 69.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.4, | 58.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -155.4, | 46.4,  | 20  | 13.7, | 340.1, | 204.2, | -186.7, | 32.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -213.1, | 16.9,  | 22  | 13.7, | 306.8, | 285.7, | -232.9, | 1.2,   |
| 23  | 13.7, | 275.8, | 314.0, | -245.7, | -14.5, | 24  | 13.7, | 236.4, | 332.7, | -251.0, | -29.8, |
| 25  | 13.7, | 189.9, | 341.3, | -248.6, | -44.2, | 26  | 13.7, | 138.4, | 339.6, | -238.7, | -57.7, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -217.1, | -78.3, |
| 29  | 13.7, | 204.2, | 340.1, | -202.2, | -84.6, | 30  | 13.7, | 248.8, | 328.4, | -181.2, | -88.7, |
| 31  | 13.7, | 285.7, | 306.8, | -154.6, | -90.0, | 32  | 13.7, | 314.0, | 275.8, | -123.4, | -88.7, |
| 33  | 13.7, | 332.7, | 236.4, | -88.4,  | -84.6, | 34  | 13.7, | 341.3, | 189.9, | -50.7,  | -78.0, |
| 35  | 13.7, | 339.6, | 138.4, | -11.5,  | -69.0, | 36  | 13.7, | 333.6, | 101.5, | 19.9,   | -58.6, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 70

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

## SOURCE ID: TTP21

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 0.7,    | -43.4, | 2   | 13.7, | 340.1, | 204.2, | -18.6,  | -29.3, |
| 3   | 13.7, | 328.4, | 248.8, | -37.2,  | -14.3, | 4   | 13.7, | 306.8, | 285.7, | -54.8,  | 1.1,   |
| 5   | 13.7, | 275.8, | 314.0, | -70.6,  | 16.5,  | 6   | 13.7, | 236.4, | 332.7, | -84.4,  | 31.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -95.6,  | 45.3,  | 8   | 13.7, | 138.4, | 339.6, | -103.8, | 58.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -127.3, | 77.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -140.8, | 83.6,  | 12  | 13.7, | 248.8, | 328.4, | -149.9, | 87.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -154.5, | 88.1,  | 14  | 13.7, | 314.0, | 275.8, | -154.4, | 86.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -149.6, | 82.0,  | 16  | 13.7, | 341.3, | 189.9, | -140.2, | 75.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -127.4, | 66.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.4, | 55.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -154.9, | 43.4,  | 20  | 13.7, | 340.1, | 204.2, | -185.7, | 29.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -211.5, | 14.3,  | 22  | 13.7, | 306.8, | 285.7, | -230.9, | -1.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -243.3, | -16.5, | 24  | 13.7, | 236.4, | 332.7, | -248.3, | -31.4, |
| 25  | 13.7, | 189.9, | 341.3, | -245.8, | -45.3, | 26  | 13.7, | 138.4, | 339.6, | -235.7, | -58.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -214.1, | -77.8, |
| 29  | 13.7, | 204.2, | 340.1, | -199.3, | -83.6, | 30  | 13.7, | 248.8, | 328.4, | -178.5, | -87.1, |
| 31  | 13.7, | 285.7, | 306.8, | -152.3, | -88.1, | 32  | 13.7, | 314.0, | 275.8, | -121.4, | -86.3, |
| 33  | 13.7, | 332.7, | 236.4, | -86.9,  | -82.0, | 34  | 13.7, | 341.3, | 189.9, | -49.7,  | -75.1, |
| 35  | 13.7, | 339.6, | 138.4, | -11.0,  | -66.0, | 36  | 13.7, | 333.6, | 101.5, | 19.9,   | -55.5, |

## SOURCE ID: TTP22

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -0.1,   | -40.3, | 2   | 13.7, | 340.1, | 204.2, | -19.9,  | -26.4, |
| 3   | 13.7, | 328.4, | 248.8, | -39.0,  | -11.7, | 4   | 13.7, | 306.8, | 285.7, | -57.0,  | 3.4,   |
| 5   | 13.7, | 275.8, | 314.0, | -73.2,  | 18.3,  | 6   | 13.7, | 236.4, | 332.7, | -87.2,  | 32.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -98.6,  | 46.1,  | 8   | 13.7, | 138.4, | 339.6, | -107.0, | 58.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -130.4, | 77.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -143.6, | 82.3,  | 12  | 13.7, | 248.8, | 328.4, | -152.5, | 85.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -156.7, | 85.9,  | 14  | 13.7, | 314.0, | 275.8, | -156.2, | 83.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -150.9, | 79.1,  | 16  | 13.7, | 341.3, | 189.9, | -141.1, | 72.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -127.7, | 62.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.1, | 52.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -154.1, | 40.3,  | 20  | 13.7, | 340.1, | 204.2, | -184.4, | 26.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -209.7, | 11.7,  | 22  | 13.7, | 306.8, | 285.7, | -228.7, | -3.4,  |
| 23  | 13.7, | 275.8, | 314.0, | -240.7, | -18.3, | 24  | 13.7, | 236.4, | 332.7, | -245.5, | -32.7, |
| 25  | 13.7, | 189.9, | 341.3, | -242.7, | -46.1, | 26  | 13.7, | 138.4, | 339.6, | -232.6, | -58.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -211.0, | -77.0, |
| 29  | 13.7, | 204.2, | 340.1, | -196.4, | -82.3, | 30  | 13.7, | 248.8, | 328.4, | -175.9, | -85.4, |
| 31  | 13.7, | 285.7, | 306.8, | -150.0, | -85.9, | 32  | 13.7, | 314.0, | 275.8, | -119.6, | -83.8, |
| 33  | 13.7, | 332.7, | 236.4, | -85.5,  | -79.1, | 34  | 13.7, | 341.3, | 189.9, | -48.8,  | -72.0, |
| 35  | 13.7, | 339.6, | 138.4, | -10.7,  | -62.8, | 36  | 13.7, | 333.6, | 101.5, | 19.7,   | -52.4, |

## SOURCE ID: TTP23

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -0.7,   | -37.3, | 2   | 13.7, | 340.1, | 204.2, | -21.0,  | -23.6, |
| 3   | 13.7, | 328.4, | 248.8, | -40.6,  | -9.1,  | 4   | 13.7, | 306.8, | 285.7, | -59.0,  | 5.6,   |
| 5   | 13.7, | 275.8, | 314.0, | -75.6,  | 20.2,  | 6   | 13.7, | 236.4, | 332.7, | -90.0,  | 34.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -101.5, | 47.1,  | 8   | 13.7, | 138.4, | 339.6, | -110.0, | 58.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -133.4, | 76.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -146.5, | 81.1,  | 12  | 13.7, | 248.8, | 328.4, | -155.1, | 83.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -159.0, | 83.8,  | 14  | 13.7, | 314.0, | 275.8, | -158.1, | 81.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -152.4, | 76.4,  | 16  | 13.7, | 341.3, | 189.9, | -142.0, | 69.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -128.1, | 59.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.0, | 49.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -153.4, | 37.3,  | 20  | 13.7, | 340.1, | 204.2, | -183.2, | 23.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -208.1, | 9.1,   | 22  | 13.7, | 306.8, | 285.7, | -226.7, | -5.6,  |
| 23  | 13.7, | 275.8, | 314.0, | -238.3, | -20.2, | 24  | 13.7, | 236.4, | 332.7, | -242.8, | -34.1, |
| 25  | 13.7, | 189.9, | 341.3, | -239.8, | -47.1, | 26  | 13.7, | 138.4, | 339.6, | -229.6, | -58.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -208.0, | -76.3, |
| 29  | 13.7, | 204.2, | 340.1, | -193.6, | -81.1, | 30  | 13.7, | 248.8, | 328.4, | -173.3, | -83.7, |
| 31  | 13.7, | 285.7, | 306.8, | -147.8, | -83.8, | 32  | 13.7, | 314.0, | 275.8, | -117.7, | -81.3, |
| 33  | 13.7, | 332.7, | 236.4, | -84.1,  | -76.4, | 34  | 13.7, | 341.3, | 189.9, | -47.9,  | -69.1, |
| 35  | 13.7, | 339.6, | 138.4, | -10.2,  | -59.8, | 36  | 13.7, | 333.6, | 101.5, | 19.6,   | -49.3, |



SOURCE ID: TTP24

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -1.1,   | -34.4, | 2   | 13.7, | 340.1, | 204.2, | -21.9,  | -20.8, |
| 3   | 13.7, | 328.4, | 248.8, | -42.0,  | -6.5,  | 4   | 13.7, | 306.8, | 285.7, | -60.8,  | 7.9,   |
| 5   | 13.7, | 275.8, | 314.0, | -77.8,  | 22.2,  | 6   | 13.7, | 236.4, | 332.7, | -92.4,  | 35.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -104.2, | 48.2,  | 8   | 13.7, | 138.4, | 339.6, | -112.9, | 59.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -136.3, | 76.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -149.2, | 80.2,  | 12  | 13.7, | 248.8, | 328.4, | -157.7, | 82.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -161.3, | 82.0,  | 14  | 13.7, | 314.0, | 275.8, | -160.1, | 79.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -153.9, | 73.9,  | 16  | 13.7, | 341.3, | 189.9, | -143.1, | 66.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -128.7, | 56.9,  | 18  | 13.7, | 333.6, | 101.5, | -121.1, | 46.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -153.0, | 34.4,  | 20  | 13.7, | 340.1, | 204.2, | -182.4, | 20.8,  |
| 21  | 13.7, | 328.4, | 248.8, | -206.8, | 6.5,   | 22  | 13.7, | 306.8, | 285.7, | -224.9, | -7.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -236.2, | -22.2, | 24  | 13.7, | 236.4, | 332.7, | -240.3, | -35.7, |
| 25  | 13.7, | 189.9, | 341.3, | -237.1, | -48.2, | 26  | 13.7, | 138.4, | 339.6, | -226.7, | -59.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -205.1, | -76.0, |
| 29  | 13.7, | 204.2, | 340.1, | -190.8, | -80.2, | 30  | 13.7, | 248.8, | 328.4, | -170.7, | -82.4, |
| 31  | 13.7, | 285.7, | 306.8, | -145.4, | -82.0, | 32  | 13.7, | 314.0, | 275.8, | -115.7, | -79.2, |
| 33  | 13.7, | 332.7, | 236.4, | -82.5,  | -73.9, | 34  | 13.7, | 341.3, | 189.9, | -46.8,  | -66.4, |
| 35  | 13.7, | 339.6, | 138.4, | -9.6,   | -56.9, | 36  | 13.7, | 333.6, | 101.5, | 19.7,   | -46.4, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -1.7,   | -31.7, | 2   | 13.7, | 340.1, | 204.2, | -23.0,  | -18.2, |
| 3   | 13.7, | 328.4, | 248.8, | -43.5,  | -4.2,  | 4   | 13.7, | 306.8, | 285.7, | -62.7,  | 10.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -80.0,  | 23.9,  | 6   | 13.7, | 236.4, | 332.7, | -94.9,  | 37.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -106.9, | 49.0,  | 8   | 13.7, | 138.4, | 339.6, | -115.6, | 59.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -139.0, | 75.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -151.8, | 79.2,  | 12  | 13.7, | 248.8, | 328.4, | -160.0, | 80.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -163.4, | 80.1,  | 14  | 13.7, | 314.0, | 275.8, | -161.8, | 77.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -155.2, | 71.5,  | 16  | 13.7, | 341.3, | 189.9, | -144.0, | 63.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -129.1, | 54.1,  | 18  | 13.7, | 333.6, | 101.5, | -121.0, | 43.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -152.4, | 31.7,  | 20  | 13.7, | 340.1, | 204.2, | -181.3, | 18.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -205.2, | 4.2,   | 22  | 13.7, | 306.8, | 285.7, | -223.0, | -10.0, |
| 23  | 13.7, | 275.8, | 314.0, | -233.9, | -23.9, | 24  | 13.7, | 236.4, | 332.7, | -237.8, | -37.0, |
| 25  | 13.7, | 189.9, | 341.3, | -234.4, | -49.0, | 26  | 13.7, | 138.4, | 339.6, | -223.9, | -59.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -202.4, | -75.3, |
| 29  | 13.7, | 204.2, | 340.1, | -188.2, | -79.2, | 30  | 13.7, | 248.8, | 328.4, | -168.4, | -80.9, |
| 31  | 13.7, | 285.7, | 306.8, | -143.4, | -80.1, | 32  | 13.7, | 314.0, | 275.8, | -114.0, | -77.0, |
| 33  | 13.7, | 332.7, | 236.4, | -81.2,  | -71.5, | 34  | 13.7, | 341.3, | 189.9, | -45.9,  | -63.8, |
| 35  | 13.7, | 339.6, | 138.4, | -9.2,   | -54.1, | 36  | 13.7, | 333.6, | 101.5, | 19.6,   | -43.6, |

SOURCE ID: TTP26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -2.4,   | -28.8, | 2   | 13.7, | 340.1, | 204.2, | -24.1,  | -15.5, |
| 3   | 13.7, | 328.4, | 248.8, | -45.1,  | -1.7,  | 4   | 13.7, | 306.8, | 285.7, | -64.7,  | 12.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -82.3,  | 25.7,  | 6   | 13.7, | 236.4, | 332.7, | -97.5,  | 38.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -109.7, | 49.9,  | 8   | 13.7, | 138.4, | 339.6, | -118.5, | 60.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -141.9, | 74.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -154.5, | 78.0,  | 12  | 13.7, | 248.8, | 328.4, | -162.5, | 79.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -165.5, | 78.2,  | 14  | 13.7, | 314.0, | 275.8, | -163.6, | 74.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -156.6, | 68.9,  | 16  | 13.7, | 341.3, | 189.9, | -144.9, | 61.0,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 17 | 13.7, | 339.6, | 138.4, | -129.5, | 51.2,  | 18 | 13.7, | 333.6, | 101.5, | -120.9, | 40.7,  |
| 19 | 13.7, | 341.4, | 154.2, | -151.8, | 28.8,  | 20 | 13.7, | 340.1, | 204.2, | -180.2, | 15.5,  |
| 21 | 13.7, | 328.4, | 248.8, | -203.7, | 1.7,   | 22 | 13.7, | 306.8, | 285.7, | -221.0, | -12.2, |
| 23 | 13.7, | 275.8, | 314.0, | -231.6, | -25.7, | 24 | 13.7, | 236.4, | 332.7, | -235.2, | -38.4, |
| 25 | 13.7, | 189.9, | 341.3, | -231.6, | -49.9, | 26 | 13.7, | 138.4, | 339.6, | -221.0, | -60.3, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -199.5, | -74.7, |
| 29 | 13.7, | 204.2, | 340.1, | -185.5, | -78.0, | 30 | 13.7, | 248.8, | 328.4, | -165.9, | -79.3, |
| 31 | 13.7, | 285.7, | 306.8, | -141.2, | -78.2, | 32 | 13.7, | 314.0, | 275.8, | -112.2, | -74.6, |
| 33 | 13.7, | 332.7, | 236.4, | -79.8,  | -68.9, | 34 | 13.7, | 341.3, | 189.9, | -45.0,  | -61.0, |
| 35 | 13.7, | 339.6, | 138.4, | -8.9,   | -51.2, | 36 | 13.7, | 333.6, | 101.5, | 19.4,   | -40.7, |

SOURCE ID: TTP27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -2.9,   | -25.8, | 2   | 13.7, | 340.1, | 204.2, | -25.1,  | -12.6, |
| 3   | 13.7, | 328.4, | 248.8, | -46.6,  | 1.0,   | 4   | 13.7, | 306.8, | 285.7, | -66.6,  | 14.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -84.7,  | 27.6,  | 6   | 13.7, | 236.4, | 332.7, | -100.1, | 39.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -112.5, | 50.9,  | 8   | 13.7, | 138.4, | 339.6, | -121.5, | 60.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -144.9, | 74.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -157.4, | 77.0,  | 12  | 13.7, | 248.8, | 328.4, | -165.2, | 77.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -167.9, | 76.2,  | 14  | 13.7, | 314.0, | 275.8, | -165.5, | 72.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -158.1, | 66.2,  | 16  | 13.7, | 341.3, | 189.9, | -145.9, | 58.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.0, | 48.2,  | 18  | 13.7, | 333.6, | 101.5, | -120.9, | 37.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -151.3, | 25.8,  | 20  | 13.7, | 340.1, | 204.2, | -179.1, | 12.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -202.2, | -1.0,  | 22  | 13.7, | 306.8, | 285.7, | -219.1, | -14.5, |
| 23  | 13.7, | 275.8, | 314.0, | -229.3, | -27.6, | 24  | 13.7, | 236.4, | 332.7, | -232.6, | -39.9, |
| 25  | 13.7, | 189.9, | 341.3, | -228.8, | -50.9, | 26  | 13.7, | 138.4, | 339.6, | -218.0, | -60.8, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -196.5, | -74.2, |
| 29  | 13.7, | 204.2, | 340.1, | -182.7, | -77.0, | 30  | 13.7, | 248.8, | 328.4, | -163.2, | -77.8, |
| 31  | 13.7, | 285.7, | 306.8, | -138.9, | -76.2, | 32  | 13.7, | 314.0, | 275.8, | -110.3, | -72.3, |
| 33  | 13.7, | 332.7, | 236.4, | -78.3,  | -66.2, | 34  | 13.7, | 341.3, | 189.9, | -44.0,  | -58.1, |
| 35  | 13.7, | 339.6, | 138.4, | -8.3,   | -48.2, | 36  | 13.7, | 333.6, | 101.5, | 19.4,   | -37.6, |

SOURCE ID: TTP28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -3.7,   | -22.8, | 2   | 13.7, | 340.1, | 204.2, | -26.4,  | -9.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -48.4,  | 3.6,   | 4   | 13.7, | 306.8, | 285.7, | -68.9,  | 16.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -87.3,  | 29.5,  | 6   | 13.7, | 236.4, | 332.7, | -103.0, | 41.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -115.6, | 51.8,  | 8   | 13.7, | 138.4, | 339.6, | -124.7, | 61.1,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -147.9, | 73.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -160.3, | 75.7,  | 12  | 13.7, | 248.8, | 328.4, | -167.8, | 76.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -170.1, | 74.0,  | 14  | 13.7, | 314.0, | 275.8, | -167.4, | 69.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -159.5, | 63.3,  | 16  | 13.7, | 341.3, | 189.9, | -146.8, | 55.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.3, | 45.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 34.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -150.5, | 22.8,  | 20  | 13.7, | 340.1, | 204.2, | -177.8, | 9.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -200.4, | -3.6,  | 22  | 13.7, | 306.8, | 285.7, | -216.8, | -16.8, |
| 23  | 13.7, | 275.8, | 314.0, | -226.7, | -29.5, | 24  | 13.7, | 236.4, | 332.7, | -229.7, | -41.3, |
| 25  | 13.7, | 189.9, | 341.3, | -225.7, | -51.8, | 26  | 13.7, | 138.4, | 339.6, | -214.9, | -61.1, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -193.5, | -73.4, |
| 29  | 13.7, | 204.2, | 340.1, | -179.8, | -75.7, | 30  | 13.7, | 248.8, | 328.4, | -160.6, | -76.0, |
| 31  | 13.7, | 285.7, | 306.8, | -136.6, | -74.0, | 32  | 13.7, | 314.0, | 275.8, | -108.4, | -69.7, |
| 33  | 13.7, | 332.7, | 236.4, | -77.0,  | -63.3, | 34  | 13.7, | 341.3, | 189.9, | -43.1,  | -55.1, |
| 35  | 13.7, | 339.6, | 138.4, | -8.0,   | -45.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -34.5, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

## SOURCE ID: TTP29

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -4.3,   | -19.8, | 2   | 13.7, | 340.1, | 204.2, | -27.6,  | -6.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -50.0,  | 6.1,   | 4   | 13.7, | 306.8, | 285.7, | -70.9,  | 19.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -89.7,  | 31.3,  | 6   | 13.7, | 236.4, | 332.7, | -105.7, | 42.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -118.5, | 52.7,  | 8   | 13.7, | 138.4, | 339.6, | -127.7, | 61.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -150.9, | 72.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -163.1, | 74.5,  | 12  | 13.7, | 248.8, | 328.4, | -170.3, | 74.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -172.4, | 71.9,  | 14  | 13.7, | 314.0, | 275.8, | -169.2, | 67.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -160.9, | 60.6,  | 16  | 13.7, | 341.3, | 189.9, | -147.7, | 52.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.7, | 42.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.5, | 31.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.8, | 19.8,  | 20  | 13.7, | 340.1, | 204.2, | -176.7, | 6.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -198.7, | -6.1,  | 22  | 13.7, | 306.8, | 285.7, | -214.8, | -19.0, |
| 23  | 13.7, | 275.8, | 314.0, | -224.3, | -31.3, | 24  | 13.7, | 236.4, | 332.7, | -227.0, | -42.7, |
| 25  | 13.7, | 189.9, | 341.3, | -222.8, | -52.7, | 26  | 13.7, | 138.4, | 339.6, | -211.8, | -61.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -190.5, | -72.7, |
| 29  | 13.7, | 204.2, | 340.1, | -177.0, | -74.5, | 30  | 13.7, | 248.8, | 328.4, | -158.1, | -74.4, |
| 31  | 13.7, | 285.7, | 306.8, | -134.4, | -71.9, | 32  | 13.7, | 314.0, | 275.8, | -106.6, | -67.3, |
| 33  | 13.7, | 332.7, | 236.4, | -75.5,  | -60.6, | 34  | 13.7, | 341.3, | 189.9, | -42.2,  | -52.1, |
| 35  | 13.7, | 339.6, | 138.4, | -7.6,   | -42.1, | 36  | 13.7, | 333.6, | 101.5, | 19.1,   | -31.4, |

## SOURCE ID: TTP30

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -4.7,   | -16.9, | 2   | 13.7, | 340.1, | 204.2, | -28.5,  | -4.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -51.4,  | 8.7,   | 4   | 13.7, | 306.8, | 285.7, | -72.7,  | 21.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -91.8,  | 33.3,  | 6   | 13.7, | 236.4, | 332.7, | -108.2, | 44.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -121.2, | 53.8,  | 8   | 13.7, | 138.4, | 339.6, | -130.6, | 62.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -153.8, | 72.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -165.9, | 73.6,  | 12  | 13.7, | 248.8, | 328.4, | -172.9, | 73.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -174.7, | 70.1,  | 14  | 13.7, | 314.0, | 275.8, | -171.2, | 65.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -162.5, | 58.2,  | 16  | 13.7, | 341.3, | 189.9, | -148.8, | 49.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -131.4, | 39.2,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 28.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.4, | 16.9,  | 20  | 13.7, | 340.1, | 204.2, | -175.8, | 4.1,   |
| 21  | 13.7, | 328.4, | 248.8, | -197.4, | -8.7,  | 22  | 13.7, | 306.8, | 285.7, | -213.0, | -21.3, |
| 23  | 13.7, | 275.8, | 314.0, | -222.1, | -33.3, | 24  | 13.7, | 236.4, | 332.7, | -224.5, | -44.2, |
| 25  | 13.7, | 189.9, | 341.3, | -220.1, | -53.8, | 26  | 13.7, | 138.4, | 339.6, | -209.0, | -62.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -187.6, | -72.4, |
| 29  | 13.7, | 204.2, | 340.1, | -174.2, | -73.6, | 30  | 13.7, | 248.8, | 328.4, | -155.5, | -73.0, |
| 31  | 13.7, | 285.7, | 306.8, | -132.0, | -70.1, | 32  | 13.7, | 314.0, | 275.8, | -104.6, | -65.1, |
| 33  | 13.7, | 332.7, | 236.4, | -74.0,  | -58.2, | 34  | 13.7, | 341.3, | 189.9, | -41.1,  | -49.4, |
| 35  | 13.7, | 339.6, | 138.4, | -7.0,   | -39.2, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -28.5, |

## SOURCE ID: TTP31

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -5.2,   | -13.6, | 2   | 13.7, | 340.1, | 204.2, | -29.5,  | -1.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -52.9,  | 11.6,  | 4   | 13.7, | 306.8, | 285.7, | -74.7,  | 23.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -94.3,  | 35.5,  | 6   | 13.7, | 236.4, | 332.7, | -111.0, | 46.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -124.3, | 55.1,  | 8   | 13.7, | 138.4, | 339.6, | -133.8, | 62.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -157.1, | 71.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -169.0, | 72.6,  | 12  | 13.7, | 248.8, | 328.4, | -175.8, | 71.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -177.3, | 68.1,  | 14  | 13.7, | 314.0, | 275.8, | -173.4, | 62.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -164.2, | 55.4,  | 16  | 13.7, | 341.3, | 189.9, | -150.0, | 46.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -132.1, | 36.0,  | 18  | 13.7, | 333.6, | 101.5, | -120.8, | 25.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.0, | 13.6,  | 20  | 13.7, | 340.1, | 204.2, | -174.8, | 1.0,   |
| 21  | 13.7, | 328.4, | 248.8, | -195.8, | -11.6, | 22  | 13.7, | 306.8, | 285.7, | -211.0, | -23.9, |
| 23  | 13.7, | 275.8, | 314.0, | -219.7, | -35.5, | 24  | 13.7, | 236.4, | 332.7, | -221.7, | -46.0, |
| 25  | 13.7, | 189.9, | 341.3, | -217.1, | -55.1, | 26  | 13.7, | 138.4, | 339.6, | -205.8, | -62.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -184.3, | -71.9, |
| 29  | 13.7, | 204.2, | 340.1, | -171.0, | -72.6, | 30  | 13.7, | 248.8, | 328.4, | -152.6, | -71.5, |
| 31  | 13.7, | 285.7, | 306.8, | -129.4, | -68.1, | 32  | 13.7, | 314.0, | 275.8, | -102.4, | -62.7, |
| 33  | 13.7, | 332.7, | 236.4, | -72.2,  | -55.4, | 34  | 13.7, | 341.3, | 189.9, | -39.9,  | -46.4, |
| 35  | 13.7, | 339.6, | 138.4, | -6.3,   | -36.0, | 36  | 13.7, | 333.6, | 101.5, | 19.3,   | -25.2, |

SOURCE ID: TTP32

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -5.8,   | -10.8, | 2   | 13.7, | 340.1, | 204.2, | -30.6,  | 1.7,   |
| 3   | 13.7, | 328.4, | 248.8, | -54.5,  | 14.1,  | 4   | 13.7, | 306.8, | 285.7, | -76.7,  | 26.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -96.6,  | 37.3,  | 6   | 13.7, | 236.4, | 332.7, | -113.5, | 47.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -127.0, | 56.0,  | 8   | 13.7, | 138.4, | 339.6, | -136.7, | 63.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -159.9, | 71.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -171.7, | 71.5,  | 12  | 13.7, | 248.8, | 328.4, | -178.3, | 69.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -179.5, | 66.1,  | 14  | 13.7, | 314.0, | 275.8, | -175.2, | 60.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -165.6, | 52.8,  | 16  | 13.7, | 341.3, | 189.9, | -150.9, | 43.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -132.4, | 33.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 22.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -148.4, | 10.8,  | 20  | 13.7, | 340.1, | 204.2, | -173.6, | -1.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.3, | -14.1, | 22  | 13.7, | 306.8, | 285.7, | -209.0, | -26.1, |
| 23  | 13.7, | 275.8, | 314.0, | -217.4, | -37.3, | 24  | 13.7, | 236.4, | 332.7, | -219.2, | -47.3, |
| 25  | 13.7, | 189.9, | 341.3, | -214.3, | -56.0, | 26  | 13.7, | 138.4, | 339.6, | -202.9, | -63.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -181.5, | -71.3, |
| 29  | 13.7, | 204.2, | 340.1, | -168.3, | -71.5, | 30  | 13.7, | 248.8, | 328.4, | -150.1, | -69.9, |
| 31  | 13.7, | 285.7, | 306.8, | -127.3, | -66.1, | 32  | 13.7, | 314.0, | 275.8, | -100.6, | -60.4, |
| 33  | 13.7, | 332.7, | 236.4, | -70.9,  | -52.8, | 34  | 13.7, | 341.3, | 189.9, | -39.0,  | -43.6, |
| 35  | 13.7, | 339.6, | 138.4, | -5.9,   | -33.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -22.3, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -6.3,   | -7.8,  | 2   | 13.7, | 340.1, | 204.2, | -31.7,  | 4.6,   |
| 3   | 13.7, | 328.4, | 248.8, | -56.0,  | 16.8,  | 4   | 13.7, | 306.8, | 285.7, | -78.7,  | 28.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -98.9,  | 39.2,  | 6   | 13.7, | 236.4, | 332.7, | -116.2, | 48.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -129.9, | 57.0,  | 8   | 13.7, | 138.4, | 339.6, | -139.7, | 63.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -162.9, | 70.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -174.6, | 70.5,  | 12  | 13.7, | 248.8, | 328.4, | -181.0, | 68.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -181.8, | 64.2,  | 14  | 13.7, | 314.0, | 275.8, | -177.1, | 58.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -167.1, | 50.2,  | 16  | 13.7, | 341.3, | 189.9, | -152.0, | 40.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -133.0, | 30.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 19.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -147.8, | 7.8,   | 20  | 13.7, | 340.1, | 204.2, | -172.6, | -4.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.8, | -16.8, | 22  | 13.7, | 306.8, | 285.7, | -207.0, | -28.4, |
| 23  | 13.7, | 275.8, | 314.0, | -215.0, | -39.2, | 24  | 13.7, | 236.4, | 332.7, | -216.5, | -48.9, |
| 25  | 13.7, | 189.9, | 341.3, | -211.4, | -57.0, | 26  | 13.7, | 138.4, | 339.6, | -199.9, | -63.8, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -178.5, | -70.8, |
| 29  | 13.7, | 204.2, | 340.1, | -165.5, | -70.5, | 30  | 13.7, | 248.8, | 328.4, | -147.5, | -68.4, |
| 31  | 13.7, | 285.7, | 306.8, | -124.9, | -64.2, | 32  | 13.7, | 314.0, | 275.8, | -98.6,  | -58.1, |
| 33  | 13.7, | 332.7, | 236.4, | -69.3,  | -50.2, | 34  | 13.7, | 341.3, | 189.9, | -37.9,  | -40.7, |
| 35  | 13.7, | 339.6, | 138.4, | -5.4,   | -30.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -19.2, |

SOURCE ID: TTP34

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -7.1,   | -4.7, | 2   | 13.7, | 340.1, | 204.2, | -32.9,  | 7.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -57.8,  | 19.4, | 4   | 13.7, | 306.8, | 285.7, | -80.9,  | 30.7, |
| 5   | 13.7, | 275.8, | 314.0, | -101.5, | 41.1, | 6   | 13.7, | 236.4, | 332.7, | -119.0, | 50.2, |
| 7   | 13.7, | 189.9, | 341.3, | -133.0, | 57.9, | 8   | 13.7, | 138.4, | 339.6, | -142.9, | 64.1, |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -166.0, | 70.0, |
| 11  | 13.7, | 204.2, | 340.1, | -177.5, | 69.2, | 12  | 13.7, | 248.8, | 328.4, | -183.6, | 66.6, |
| 13  | 13.7, | 285.7, | 306.8, | -184.1, | 62.0, | 14  | 13.7, | 314.0, | 275.8, | -179.0, | 55.5, |
| 15  | 13.7, | 332.7, | 236.4, | -168.5, | 47.3, | 16  | 13.7, | 341.3, | 189.9, | -152.8, | 37.7, |
| 17  | 13.7, | 339.6, | 138.4, | -133.3, | 26.9, | 18  | 13.7, | 333.6, | 101.5, | -120.4, | 16.1, |
| 19  | 13.7, | 341.4, | 154.2, | -147.0, | 4.7,  | 20  | 13.7, | 340.1, | 204.2, | -171.3, | -7.5, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 1  | 13.7, | 341.4, | 154.2, | -9.0,   | 4.5,   | 2  | 13.7, | 340.1, | 204.2, | -36.4,  | 16.2,  |
| 3  | 13.7, | 328.4, | 248.8, | -62.7,  | 27.4,  | 4  | 13.7, | 306.8, | 285.7, | -87.1,  | 37.7,  |
| 5  | 13.7, | 275.8, | 314.0, | -108.8, | 46.9,  | 6  | 13.7, | 236.4, | 332.7, | -127.3, | 54.7,  |
| 7  | 13.7, | 189.9, | 341.3, | -141.9, | 60.8,  | 8  | 13.7, | 138.4, | 339.6, | -152.1, | 65.5,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -175.2, | 68.1,  |
| 11 | 13.7, | 204.2, | 340.1, | -186.2, | 65.7,  | 12 | 13.7, | 248.8, | 328.4, | -191.6, | 61.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -191.1, | 55.8,  | 14 | 13.7, | 314.0, | 275.8, | -184.8, | 48.1,  |
| 15 | 13.7, | 332.7, | 236.4, | -172.9, | 39.1,  | 16 | 13.7, | 341.3, | 189.9, | -155.8, | 28.8,  |
| 17 | 13.7, | 339.6, | 138.4, | -134.7, | 17.7,  | 18 | 13.7, | 333.6, | 101.5, | -120.1, | 6.7,   |
| 19 | 13.7, | 341.4, | 154.2, | -145.2, | -4.5,  | 20 | 13.7, | 340.1, | 204.2, | -167.9, | -16.2, |
| 21 | 13.7, | 328.4, | 248.8, | -186.1, | -27.4, | 22 | 13.7, | 306.8, | 285.7, | -198.6, | -37.7, |
| 23 | 13.7, | 275.8, | 314.0, | -205.1, | -46.9, | 24 | 13.7, | 236.4, | 332.7, | -205.4, | -54.7, |
| 25 | 13.7, | 189.9, | 341.3, | -199.5, | -60.8, | 26 | 13.7, | 138.4, | 339.6, | -187.4, | -65.5, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -166.2, | -68.1, |
| 29 | 13.7, | 204.2, | 340.1, | -153.9, | -65.7, | 30 | 13.7, | 248.8, | 328.4, | -136.8, | -61.7, |
| 31 | 13.7, | 285.7, | 306.8, | -115.6, | -55.8, | 32 | 13.7, | 314.0, | 275.8, | -91.0,  | -48.1, |
| 33 | 13.7, | 332.7, | 236.4, | -63.5,  | -39.1, | 34 | 13.7, | 341.3, | 189.9, | -34.1,  | -28.8, |
| 35 | 13.7, | 339.6, | 138.4, | -3.7,   | -17.7, | 36 | 13.7, | 333.6, | 101.5, | 18.7,   | -6.7,  |

SOURCE ID: TTP38

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -9.6,   | 7.4,   | 2   | 13.7, | 340.1, | 204.2, | -37.5,  | 18.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -64.3,  | 29.8,  | 4   | 13.7, | 306.8, | 285.7, | -89.1,  | 39.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -111.2, | 48.7,  | 6   | 13.7, | 236.4, | 332.7, | -129.9, | 56.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -144.7, | 61.7,  | 8   | 13.7, | 138.4, | 339.6, | -155.0, | 65.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -178.1, | 67.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -188.9, | 64.6,  | 12  | 13.7, | 248.8, | 328.4, | -194.0, | 60.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -193.3, | 53.8,  | 14  | 13.7, | 314.0, | 275.8, | -186.6, | 45.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -174.3, | 36.5,  | 16  | 13.7, | 341.3, | 189.9, | -156.7, | 26.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -135.1, | 14.8,  | 18  | 13.7, | 333.6, | 101.5, | -120.0, | 3.8,   |
| 19  | 13.7, | 341.4, | 154.2, | -144.5, | -7.4,  | 20  | 13.7, | 340.1, | 204.2, | -166.7, | -18.9, |
| 21  | 13.7, | 328.4, | 248.8, | -184.5, | -29.8, | 22  | 13.7, | 306.8, | 285.7, | -196.6, | -39.9, |
| 23  | 13.7, | 275.8, | 314.0, | -202.8, | -48.7, | 24  | 13.7, | 236.4, | 332.7, | -202.8, | -56.1, |
| 25  | 13.7, | 189.9, | 341.3, | -196.7, | -61.7, | 26  | 13.7, | 138.4, | 339.6, | -184.5, | -65.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -163.4, | -67.5, |
| 29  | 13.7, | 204.2, | 340.1, | -151.2, | -64.6, | 30  | 13.7, | 248.8, | 328.4, | -134.4, | -60.1, |
| 31  | 13.7, | 285.7, | 306.8, | -113.5, | -53.8, | 32  | 13.7, | 314.0, | 275.8, | -89.2,  | -45.8, |
| 33  | 13.7, | 332.7, | 236.4, | -62.1,  | -36.5, | 34  | 13.7, | 341.3, | 189.9, | -33.2,  | -26.0, |
| 35  | 13.7, | 339.6, | 138.4, | -3.3,   | -14.8, | 36  | 13.7, | 333.6, | 101.5, | 18.6,   | -3.8,  |

SOURCE ID: TTP39

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -10.2,  | 10.4,  | 2   | 13.7, | 340.1, | 204.2, | -38.5,  | 21.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -65.8,  | 32.5,  | 4   | 13.7, | 306.8, | 285.7, | -91.0,  | 42.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -113.5, | 50.7,  | 6   | 13.7, | 236.4, | 332.7, | -132.5, | 57.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -147.5, | 62.8,  | 8   | 13.7, | 138.4, | 339.6, | -158.0, | 66.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -181.1, | 66.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -191.8, | 63.6,  | 12  | 13.7, | 248.8, | 328.4, | -196.7, | 58.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -195.6, | 51.8,  | 14  | 13.7, | 314.0, | 275.8, | -188.6, | 43.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -175.8, | 33.8,  | 16  | 13.7, | 341.3, | 189.9, | -157.7, | 23.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -135.6, | 11.8,  | 18  | 13.7, | 333.6, | 101.5, | -120.0, | 0.7,   |
| 19  | 13.7, | 341.4, | 154.2, | -144.0, | -10.4, | 20  | 13.7, | 340.1, | 204.2, | -165.7, | -21.8, |
| 21  | 13.7, | 328.4, | 248.8, | -183.0, | -32.5, | 22  | 13.7, | 306.8, | 285.7, | -194.7, | -42.2, |
| 23  | 13.7, | 275.8, | 314.0, | -200.5, | -50.7, | 24  | 13.7, | 236.4, | 332.7, | -200.2, | -57.6, |
| 25  | 13.7, | 189.9, | 341.3, | -193.8, | -62.8, | 26  | 13.7, | 138.4, | 339.6, | -181.5, | -66.4, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -160.3, | -66.9, |
| 29  | 13.7, | 204.2, | 340.1, | -148.3, | -63.6, | 30  | 13.7, | 248.8, | 328.4, | -131.7, | -58.6, |
| 31  | 13.7, | 285.7, | 306.8, | -111.1, | -51.8, | 32  | 13.7, | 314.0, | 275.8, | -87.2,  | -43.5, |
| 33  | 13.7, | 332.7, | 236.4, | -60.6,  | -33.8, | 34  | 13.7, | 341.3, | 189.9, | -32.2,  | -23.1, |
| 35  | 13.7, | 339.6, | 138.4, | -2.8,   | -11.8, | 36  | 13.7, | 333.6, | 101.5, | 18.6,   | -0.7,  |

SOURCE ID: TTP40

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|-----|----|----|----|------|------|-----|----|----|----|------|------|
|-----|----|----|----|------|------|-----|----|----|----|------|------|

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 1  | 13.7, | 341.4, | 154.2, | -10.9,  | 13.4,  | 2  | 13.7, | 340.1, | 204.2, | -39.9,  | 24.6,  |
| 3  | 13.7, | 328.4, | 248.8, | -67.6,  | 35.1,  | 4  | 13.7, | 306.8, | 285.7, | -93.2,  | 44.5,  |
| 5  | 13.7, | 275.8, | 314.0, | -116.1, | 52.5,  | 6  | 13.7, | 236.4, | 332.7, | -135.4, | 59.0,  |
| 7  | 13.7, | 189.9, | 341.3, | -150.6, | 63.6,  | 8  | 13.7, | 138.4, | 339.6, | -161.2, | 66.7,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -184.1, | 66.1,  |
| 11 | 13.7, | 204.2, | 340.1, | -194.7, | 62.3,  | 12 | 13.7, | 248.8, | 328.4, | -199.3, | 56.8,  |
| 13 | 13.7, | 285.7, | 306.8, | -197.9, | 49.6,  | 14 | 13.7, | 314.0, | 275.8, | -190.4, | 40.9,  |
| 15 | 13.7, | 332.7, | 236.4, | -177.2, | 31.0,  | 16 | 13.7, | 341.3, | 189.9, | -158.6, | 20.1,  |
| 17 | 13.7, | 339.6, | 138.4, | -135.9, | 8.6,   | 18 | 13.7, | 333.6, | 101.5, | -119.8, | -2.4,  |
| 19 | 13.7, | 341.4, | 154.2, | -143.2, | -13.4, | 20 | 13.7, | 340.1, | 204.2, | -164.4, | -24.6, |
| 21 | 13.7, | 328.4, | 248.8, | -181.2, | -35.1, | 22 | 13.7, | 306.8, | 285.7, | -192.5, | -44.5, |
| 23 | 13.7, | 275.8, | 314.0, | -197.9, | -52.5, | 24 | 13.7, | 236.4, | 332.7, | -197.3, | -59.0, |
| 25 | 13.7, | 189.9, | 341.3, | -190.8, | -63.6, | 26 | 13.7, | 138.4, | 339.6, | -178.4, | -66.7, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -157.3, | -66.1, |
| 29 | 13.7, | 204.2, | 340.1, | -145.4, | -62.3, | 30 | 13.7, | 248.8, | 328.4, | -129.1, | -56.8, |
| 31 | 13.7, | 285.7, | 306.8, | -108.9, | -49.6, | 32 | 13.7, | 314.0, | 275.8, | -85.4,  | -40.9, |
| 33 | 13.7, | 332.7, | 236.4, | -59.2,  | -31.0, | 34 | 13.7, | 341.3, | 189.9, | -31.3,  | -20.1, |
| 35 | 13.7, | 339.6, | 138.4, | -2.4,   | -8.6,  | 36 | 13.7, | 333.6, | 101.5, | 18.3,   | 2.4,   |

```

FF *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***
***
09:17:47

```

PAGE 75

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP41

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -11.6,  | 16.4,  | 2   | 13.7, | 340.1, | 204.2, | -41.0,  | 27.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -69.2,  | 37.7,  | 4   | 13.7, | 306.8, | 285.7, | -95.3,  | 46.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -118.5, | 54.4,  | 6   | 13.7, | 236.4, | 332.7, | -138.1, | 60.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -153.5, | 64.5,  | 8   | 13.7, | 138.4, | 339.6, | -164.2, | 67.1,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -187.1, | 65.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -197.5, | 61.1,  | 12  | 13.7, | 248.8, | 328.4, | -201.9, | 55.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -200.1, | 47.6,  | 14  | 13.7, | 314.0, | 275.8, | -192.3, | 38.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -178.6, | 28.3,  | 16  | 13.7, | 341.3, | 189.9, | -159.5, | 17.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -136.3, | 5.6,   | 18  | 13.7, | 333.6, | 101.5, | -119.7, | -5.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -142.6, | -16.4, | 20  | 13.7, | 340.1, | 204.2, | -163.2, | -27.5, |
| 21  | 13.7, | 328.4, | 248.8, | -179.6, | -37.7, | 22  | 13.7, | 306.8, | 285.7, | -190.4, | -46.8, |
| 23  | 13.7, | 275.8, | 314.0, | -195.5, | -54.4, | 24  | 13.7, | 236.4, | 332.7, | -194.6, | -60.4, |
| 25  | 13.7, | 189.9, | 341.3, | -187.8, | -64.5, | 26  | 13.7, | 138.4, | 339.6, | -175.4, | -67.1, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -154.3, | -65.5, |
| 29  | 13.7, | 204.2, | 340.1, | -142.6, | -61.1, | 30  | 13.7, | 248.8, | 328.4, | -126.5, | -55.2, |
| 31  | 13.7, | 285.7, | 306.8, | -106.6, | -47.6, | 32  | 13.7, | 314.0, | 275.8, | -83.5,  | -38.5, |
| 33  | 13.7, | 332.7, | 236.4, | -57.8,  | -28.3, | 34  | 13.7, | 341.3, | 189.9, | -30.4,  | -17.2, |
| 35  | 13.7, | 339.6, | 138.4, | -2.0,   | -5.6,  | 36  | 13.7, | 333.6, | 101.5, | 18.2,   | 5.5,   |

SOURCE ID: TTP42

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -12.0,  | 19.3,  | 2   | 13.7, | 340.1, | 204.2, | -41.9,  | 30.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -70.6,  | 40.3,  | 4   | 13.7, | 306.8, | 285.7, | -97.1,  | 49.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -120.6, | 56.4,  | 6   | 13.7, | 236.4, | 332.7, | -140.5, | 62.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -156.2, | 65.7,  | 8   | 13.7, | 138.4, | 339.6, | -167.1, | 67.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -190.0, | 65.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -200.3, | 60.2,  | 12  | 13.7, | 248.8, | 328.4, | -204.5, | 53.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -202.4, | 45.8,  | 14  | 13.7, | 314.0, | 275.8, | -194.2, | 36.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -180.2, | 25.8,  | 16  | 13.7, | 341.3, | 189.9, | -160.6, | 14.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -136.9, | 2.7,   | 18  | 13.7, | 333.6, | 101.5, | -119.8, | -8.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -142.2, | -19.3, | 20  | 13.7, | 340.1, | 204.2, | -162.4, | -30.2, |
| 21  | 13.7, | 328.4, | 248.8, | -178.2, | -40.3, | 22  | 13.7, | 306.8, | 285.7, | -188.6, | -49.1, |
| 23  | 13.7, | 275.8, | 314.0, | -193.3, | -56.4, | 24  | 13.7, | 236.4, | 332.7, | -192.2, | -62.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 25 | 13.7, | 189.9, | 341.3, | -185.1, | -65.7, | 26 | 13.7, | 138.4, | 339.6, | -172.5, | -67.8, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -151.4, | -65.1, |
| 29 | 13.7, | 204.2, | 340.1, | -139.8, | -60.2, | 30 | 13.7, | 248.8, | 328.4, | -123.9, | -53.8, |
| 31 | 13.7, | 285.7, | 306.8, | -104.3, | -45.8, | 32 | 13.7, | 314.0, | 275.8, | -81.5,  | -36.3, |
| 33 | 13.7, | 332.7, | 236.4, | -56.3,  | -25.8, | 34 | 13.7, | 341.3, | 189.9, | -29.3,  | -14.5, |
| 35 | 13.7, | 339.6, | 138.4, | -1.4,   | -2.7,  | 36 | 13.7, | 333.6, | 101.5, | 18.3,   | 8.4,   |

SOURCE ID: TTP43

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -12.5,  | 22.1,  | 2   | 13.7, | 340.1, | 204.2, | -42.9,  | 32.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -72.0,  | 42.7,  | 4   | 13.7, | 306.8, | 285.7, | -98.9,  | 51.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -122.8, | 58.2,  | 6   | 13.7, | 236.4, | 332.7, | -143.0, | 63.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -158.8, | 66.6,  | 8   | 13.7, | 138.4, | 339.6, | -169.8, | 68.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -192.8, | 64.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -202.9, | 59.3,  | 12  | 13.7, | 248.8, | 328.4, | -206.9, | 52.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -204.6, | 44.0,  | 14  | 13.7, | 314.0, | 275.8, | -196.1, | 34.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -181.6, | 23.4,  | 16  | 13.7, | 341.3, | 189.9, | -161.6, | 11.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -137.4, | -0.0,  | 18  | 13.7, | 333.6, | 101.5, | -119.8, | -11.2, |
| 19  | 13.7, | 341.4, | 154.2, | -141.7, | -22.1, | 20  | 13.7, | 340.1, | 204.2, | -161.4, | -32.9, |
| 21  | 13.7, | 328.4, | 248.8, | -176.8, | -42.7, | 22  | 13.7, | 306.8, | 285.7, | -186.8, | -51.2, |
| 23  | 13.7, | 275.8, | 314.0, | -191.2, | -58.2, | 24  | 13.7, | 236.4, | 332.7, | -189.7, | -63.4, |
| 25  | 13.7, | 189.9, | 341.3, | -182.5, | -66.6, | 26  | 13.7, | 138.4, | 339.6, | -169.7, | -68.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -148.6, | -64.6, |
| 29  | 13.7, | 204.2, | 340.1, | -137.2, | -59.3, | 30  | 13.7, | 248.8, | 328.4, | -121.5, | -52.4, |
| 31  | 13.7, | 285.7, | 306.8, | -102.2, | -44.0, | 32  | 13.7, | 314.0, | 275.8, | -79.7,  | -34.2, |
| 33  | 13.7, | 332.7, | 236.4, | -54.9,  | -23.4, | 34  | 13.7, | 341.3, | 189.9, | -28.3,  | -11.9, |
| 35  | 13.7, | 339.6, | 138.4, | -0.9,   | 0.0,   | 36  | 13.7, | 333.6, | 101.5, | 18.3,   | 11.2,  |

SOURCE ID: TTP44

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -13.1,  | 24.9,  | 2   | 13.7, | 340.1, | 204.2, | -44.0,  | 35.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -73.5,  | 45.2,  | 4   | 13.7, | 306.8, | 285.7, | -100.8, | 53.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -125.1, | 59.9,  | 6   | 13.7, | 236.4, | 332.7, | -145.6, | 64.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -161.6, | 67.5,  | 8   | 13.7, | 138.4, | 339.6, | -172.7, | 68.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -195.6, | 64.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -205.6, | 58.1,  | 12  | 13.7, | 248.8, | 328.4, | -209.4, | 50.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -206.7, | 42.0,  | 14  | 13.7, | 314.0, | 275.8, | -197.8, | 31.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -182.9, | 20.8,  | 16  | 13.7, | 341.3, | 189.9, | -162.5, | 9.1,   |
| 17  | 13.7, | 339.6, | 138.4, | -137.8, | -2.9,  | 18  | 13.7, | 333.6, | 101.5, | -119.7, | -14.1, |
| 19  | 13.7, | 341.4, | 154.2, | -141.1, | -24.9, | 20  | 13.7, | 340.1, | 204.2, | -160.3, | -35.6, |
| 21  | 13.7, | 328.4, | 248.8, | -175.2, | -45.2, | 22  | 13.7, | 306.8, | 285.7, | -184.9, | -53.4, |
| 23  | 13.7, | 275.8, | 314.0, | -188.9, | -59.9, | 24  | 13.7, | 236.4, | 332.7, | -187.1, | -64.7, |
| 25  | 13.7, | 189.9, | 341.3, | -179.7, | -67.5, | 26  | 13.7, | 138.4, | 339.6, | -166.9, | -68.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -145.8, | -64.0, |
| 29  | 13.7, | 204.2, | 340.1, | -134.5, | -58.1, | 30  | 13.7, | 248.8, | 328.4, | -119.0, | -50.8, |
| 31  | 13.7, | 285.7, | 306.8, | -100.0, | -42.0, | 32  | 13.7, | 314.0, | 275.8, | -77.9,  | -31.9, |
| 33  | 13.7, | 332.7, | 236.4, | -53.5,  | -20.8, | 34  | 13.7, | 341.3, | 189.9, | -27.4,  | -9.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -0.5,   | 2.9,   | 36  | 13.7, | 333.6, | 101.5, | 18.2,   | 14.1,  |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

09:17:47

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP45

| IFV | BH    | BW     | BL     | XADJ   | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|--------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -13.6, | 27.9, | 2   | 13.7, | 340.1, | 204.2, | -45.0,  | 38.4, |
| 3   | 13.7, | 328.4, | 248.8, | -75.0, | 47.8, | 4   | 13.7, | 306.8, | 285.7, | -102.8, | 55.7, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 5  | 13.7, | 275.8, | 314.0, | -127.4, | 61.9,  | 6  | 13.7, | 236.4, | 332.7, | -148.2, | 66.2,  |
| 7  | 13.7, | 189.9, | 341.3, | -164.5, | 68.5,  | 8  | 13.7, | 138.4, | 339.6, | -175.7, | 69.2,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -198.6, | 63.5,  |
| 11 | 13.7, | 204.2, | 340.1, | -208.5, | 57.1,  | 12 | 13.7, | 248.8, | 328.4, | -212.0, | 49.3,  |
| 13 | 13.7, | 285.7, | 306.8, | -209.1, | 40.0,  | 14 | 13.7, | 314.0, | 275.8, | -199.8, | 29.5,  |
| 15 | 13.7, | 332.7, | 236.4, | -184.5, | 18.2,  | 16 | 13.7, | 341.3, | 189.9, | -163.5, | 6.2,   |
| 17 | 13.7, | 339.6, | 138.4, | -138.3, | -5.9,  | 18 | 13.7, | 333.6, | 101.5, | -119.7, | -17.2, |
| 19 | 13.7, | 341.4, | 154.2, | -140.6, | -27.9, | 20 | 13.7, | 340.1, | 204.2, | -159.2, | -38.4, |
| 21 | 13.7, | 328.4, | 248.8, | -173.7, | -47.8, | 22 | 13.7, | 306.8, | 285.7, | -182.9, | -55.7, |
| 23 | 13.7, | 275.8, | 314.0, | -186.5, | -61.9, | 24 | 13.7, | 236.4, | 332.7, | -184.5, | -66.2, |
| 25 | 13.7, | 189.9, | 341.3, | -176.9, | -68.5, | 26 | 13.7, | 138.4, | 339.6, | -163.8, | -69.2, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -142.8, | -63.5, |
| 29 | 13.7, | 204.2, | 340.1, | -131.6, | -57.1, | 30 | 13.7, | 248.8, | 328.4, | -116.4, | -49.3, |
| 31 | 13.7, | 285.7, | 306.8, | -97.7,  | -40.0, | 32 | 13.7, | 314.0, | 275.8, | -76.0,  | -29.5, |
| 33 | 13.7, | 332.7, | 236.4, | -52.0,  | -18.2, | 34 | 13.7, | 341.3, | 189.9, | -26.4,  | -6.2,  |
| 35 | 13.7, | 339.6, | 138.4, | -0.0,   | 5.9,   | 36 | 13.7, | 333.6, | 101.5, | 18.2,   | 17.2,  |

SOURCE ID: TTP46

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -14.4,  | 31.0,  | 2   | 13.7, | 340.1, | 204.2, | -46.3,  | 41.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -76.8,  | 50.4,  | 4   | 13.7, | 306.8, | 285.7, | -105.0, | 58.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -130.0, | 63.8,  | 6   | 13.7, | 236.4, | 332.7, | -151.1, | 67.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.5, | 69.4,  | 8   | 13.7, | 138.4, | 339.6, | -178.9, | 69.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -201.7, | 62.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -211.4, | 55.8,  | 12  | 13.7, | 248.8, | 328.4, | -214.6, | 47.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -211.3, | 37.8,  | 14  | 13.7, | 314.0, | 275.8, | -201.6, | 27.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -185.8, | 15.3,  | 16  | 13.7, | 341.3, | 189.9, | -164.3, | 3.1,   |
| 17  | 13.7, | 339.6, | 138.4, | -138.6, | -9.1,  | 18  | 13.7, | 333.6, | 101.5, | -119.4, | -20.3, |
| 19  | 13.7, | 341.4, | 154.2, | -139.8, | -31.0, | 20  | 13.7, | 340.1, | 204.2, | -157.9, | -41.3, |
| 21  | 13.7, | 328.4, | 248.8, | -171.9, | -50.4, | 22  | 13.7, | 306.8, | 285.7, | -180.7, | -58.0, |
| 23  | 13.7, | 275.8, | 314.0, | -184.0, | -63.8, | 24  | 13.7, | 236.4, | 332.7, | -181.6, | -67.6, |
| 25  | 13.7, | 189.9, | 341.3, | -173.8, | -69.4, | 26  | 13.7, | 138.4, | 339.6, | -160.7, | -69.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -139.7, | -62.7, |
| 29  | 13.7, | 204.2, | 340.1, | -128.7, | -55.8, | 30  | 13.7, | 248.8, | 328.4, | -113.8, | -47.5, |
| 31  | 13.7, | 285.7, | 306.8, | -95.4,  | -37.8, | 32  | 13.7, | 314.0, | 275.8, | -74.1,  | -27.0, |
| 33  | 13.7, | 332.7, | 236.4, | -50.6,  | -15.3, | 34  | 13.7, | 341.3, | 189.9, | -25.6,  | -3.1,  |
| 35  | 13.7, | 339.6, | 138.4, | 0.3,    | 9.1,   | 36  | 13.7, | 333.6, | 101.5, | 18.0,   | 20.3,  |

SOURCE ID: TTP47

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -15.1,  | 34.0,  | 2   | 13.7, | 340.1, | 204.2, | -47.5,  | 44.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -78.5,  | 53.0,  | 4   | 13.7, | 306.8, | 285.7, | -107.1, | 60.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -132.4, | 65.6,  | 6   | 13.7, | 236.4, | 332.7, | -153.8, | 69.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -170.4, | 70.3,  | 8   | 13.7, | 138.4, | 339.6, | -181.9, | 69.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -204.7, | 62.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -214.2, | 54.6,  | 12  | 13.7, | 248.8, | 328.4, | -217.2, | 45.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -213.6, | 35.8,  | 14  | 13.7, | 314.0, | 275.8, | -203.5, | 24.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -187.2, | 12.6,  | 16  | 13.7, | 341.3, | 189.9, | -165.3, | 0.2,   |
| 17  | 13.7, | 339.6, | 138.4, | -139.1, | -12.1, | 18  | 13.7, | 333.6, | 101.5, | -119.3, | -23.4, |
| 19  | 13.7, | 341.4, | 154.2, | -139.1, | -34.0, | 20  | 13.7, | 340.1, | 204.2, | -156.8, | -44.2, |
| 21  | 13.7, | 328.4, | 248.8, | -170.3, | -53.0, | 22  | 13.7, | 306.8, | 285.7, | -178.6, | -60.2, |
| 23  | 13.7, | 275.8, | 314.0, | -181.5, | -65.6, | 24  | 13.7, | 236.4, | 332.7, | -178.9, | -69.0, |
| 25  | 13.7, | 189.9, | 341.3, | -170.9, | -70.3, | 26  | 13.7, | 138.4, | 339.6, | -157.7, | -69.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -136.7, | -62.0, |
| 29  | 13.7, | 204.2, | 340.1, | -125.9, | -54.6, | 30  | 13.7, | 248.8, | 328.4, | -111.2, | -45.9, |
| 31  | 13.7, | 285.7, | 306.8, | -93.1,  | -35.8, | 32  | 13.7, | 314.0, | 275.8, | -72.3,  | -24.6, |
| 33  | 13.7, | 332.7, | 236.4, | -49.2,  | -12.6, | 34  | 13.7, | 341.3, | 189.9, | -24.6,  | -0.2,  |
| 35  | 13.7, | 339.6, | 138.4, | 0.7,    | 12.1,  | 36  | 13.7, | 333.6, | 101.5, | 17.8,   | 23.4,  |

SOURCE ID: TTP48

|     |       |        |        |        |       |     |       |        |        |         |       |
|-----|-------|--------|--------|--------|-------|-----|-------|--------|--------|---------|-------|
| IFV | BH    | BW     | BL     | XADJ   | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
| 1   | 13.7, | 341.4, | 154.2, | -15.4, | 36.9, | 2   | 13.7, | 340.1, | 204.2, | -48.4,  | 46.9, |
| 3   | 13.7, | 328.4, | 248.8, | -79.8, | 55.6, | 4   | 13.7, | 306.8, | 285.7, | -108.9, | 62.5, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 5  | 13.7, | 275.8, | 314.0, | -134.6, | 67.6,  | 6  | 13.7, | 236.4, | 332.7, | -156.2, | 70.6,  |
| 7  | 13.7, | 189.9, | 341.3, | -173.1, | 71.4,  | 8  | 13.7, | 138.4, | 339.6, | -184.8, | 70.5,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -207.6, | 61.6,  |
| 11 | 13.7, | 204.2, | 340.1, | -217.0, | 53.8,  | 12 | 13.7, | 248.8, | 328.4, | -219.8, | 44.5,  |
| 13 | 13.7, | 285.7, | 306.8, | -215.9, | 34.0,  | 14 | 13.7, | 314.0, | 275.8, | -205.5, | 22.4,  |
| 15 | 13.7, | 332.7, | 236.4, | -188.8, | 10.1,  | 16 | 13.7, | 341.3, | 189.9, | -166.4, | -2.5,  |
| 17 | 13.7, | 339.6, | 138.4, | -139.7, | -15.0, | 18 | 13.7, | 333.6, | 101.5, | -119.4, | -26.3, |
| 19 | 13.7, | 341.4, | 154.2, | -138.7, | -36.9, | 20 | 13.7, | 340.1, | 204.2, | -155.9, | -46.9, |
| 21 | 13.7, | 328.4, | 248.8, | -168.9, | -55.6, | 22 | 13.7, | 306.8, | 285.7, | -176.8, | -62.5, |
| 23 | 13.7, | 275.8, | 314.0, | -179.4, | -67.6, | 24 | 13.7, | 236.4, | 332.7, | -176.5, | -70.6, |
| 25 | 13.7, | 189.9, | 341.3, | -168.2, | -71.4, | 26 | 13.7, | 138.4, | 339.6, | -154.8, | -70.5, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -133.8, | -61.6, |
| 29 | 13.7, | 204.2, | 340.1, | -123.1, | -53.8, | 30 | 13.7, | 248.8, | 328.4, | -108.6, | -44.5, |
| 31 | 13.7, | 285.7, | 306.8, | -90.8,  | -34.0, | 32 | 13.7, | 314.0, | 275.8, | -70.3,  | -22.4, |
| 33 | 13.7, | 332.7, | 236.4, | -47.6,  | -10.1, | 34 | 13.7, | 341.3, | 189.9, | -23.5,  | 2.5,   |
| 35 | 13.7, | 339.6, | 138.4, | 1.3,    | 15.0,  | 36 | 13.7, | 333.6, | 101.5, | 18.0,   | 26.3,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 77

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP49

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -16.2,  | 40.2,  | 2   | 13.7, | 340.1, | 204.2, | -49.6,  | 50.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -81.6,  | 58.5,  | 4   | 13.7, | 306.8, | 285.7, | -111.1, | 65.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -137.3, | 69.7,  | 6   | 13.7, | 236.4, | 332.7, | -159.2, | 72.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -176.4, | 72.5,  | 8   | 13.7, | 138.4, | 339.6, | -188.1, | 71.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -210.9, | 60.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -220.1, | 52.5,  | 12  | 13.7, | 248.8, | 328.4, | -222.7, | 42.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -218.4, | 31.7,  | 14  | 13.7, | 314.0, | 275.8, | -207.6, | 19.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -190.4, | 7.1,   | 16  | 13.7, | 341.3, | 189.9, | -167.4, | -5.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -140.2, | -18.4, | 18  | 13.7, | 333.6, | 101.5, | -119.3, | -29.7, |
| 19  | 13.7, | 341.4, | 154.2, | -138.0, | -40.2, | 20  | 13.7, | 340.1, | 204.2, | -154.6, | -50.1, |
| 21  | 13.7, | 328.4, | 248.8, | -167.1, | -58.5, | 22  | 13.7, | 306.8, | 285.7, | -174.6, | -65.1, |
| 23  | 13.7, | 275.8, | 314.0, | -176.7, | -69.7, | 24  | 13.7, | 236.4, | 332.7, | -173.5, | -72.2, |
| 25  | 13.7, | 189.9, | 341.3, | -164.9, | -72.5, | 26  | 13.7, | 138.4, | 339.6, | -151.4, | -71.0, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -130.5, | -60.9, |
| 29  | 13.7, | 204.2, | 340.1, | -119.9, | -52.5, | 30  | 13.7, | 248.8, | 328.4, | -105.7, | -42.7, |
| 31  | 13.7, | 285.7, | 306.8, | -88.3,  | -31.7, | 32  | 13.7, | 314.0, | 275.8, | -68.2,  | -19.7, |
| 33  | 13.7, | 332.7, | 236.4, | -46.0,  | -7.1,  | 34  | 13.7, | 341.3, | 189.9, | -22.5,  | 5.7,   |
| 35  | 13.7, | 339.6, | 138.4, | 1.8,    | 18.4,  | 36  | 13.7, | 333.6, | 101.5, | 17.8,   | 29.7,  |

SOURCE ID: TTP50

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -16.8,  | 43.1,  | 2   | 13.7, | 340.1, | 204.2, | -50.8,  | 52.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -83.2,  | 60.9,  | 4   | 13.7, | 306.8, | 285.7, | -113.1, | 67.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -139.6, | 71.5,  | 6   | 13.7, | 236.4, | 332.7, | -161.8, | 73.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -179.2, | 73.4,  | 8   | 13.7, | 138.4, | 339.6, | -191.0, | 71.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -213.8, | 60.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -222.8, | 51.4,  | 12  | 13.7, | 248.8, | 328.4, | -225.1, | 41.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -220.6, | 29.7,  | 14  | 13.7, | 314.0, | 275.8, | -209.4, | 17.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -191.8, | 4.5,   | 16  | 13.7, | 341.3, | 189.9, | -168.3, | -8.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -140.5, | -21.2, | 18  | 13.7, | 333.6, | 101.5, | -119.2, | -32.6, |
| 19  | 13.7, | 341.4, | 154.2, | -137.4, | -43.1, | 20  | 13.7, | 340.1, | 204.2, | -153.5, | -52.8, |
| 21  | 13.7, | 328.4, | 248.8, | -165.6, | -60.9, | 22  | 13.7, | 306.8, | 285.7, | -172.6, | -67.2, |
| 23  | 13.7, | 275.8, | 314.0, | -174.4, | -71.5, | 24  | 13.7, | 236.4, | 332.7, | -170.9, | -73.5, |
| 25  | 13.7, | 189.9, | 341.3, | -162.2, | -73.4, | 26  | 13.7, | 138.4, | 339.6, | -148.5, | -71.4, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -127.6, | -60.3, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 29 | 13.7, | 204.2, | 340.1, | -117.2, | -51.4, | 30 | 13.7, | 248.8, | 328.4, | -103.2, | -41.2, |
| 31 | 13.7, | 285.7, | 306.8, | -86.1,  | -29.7, | 32 | 13.7, | 314.0, | 275.8, | -66.4,  | -17.4, |
| 33 | 13.7, | 332.7, | 236.4, | -44.7,  | -4.5,  | 34 | 13.7, | 341.3, | 189.9, | -21.6,  | 8.5,   |
| 35 | 13.7, | 339.6, | 138.4, | 2.2,    | 21.2,  | 36 | 13.7, | 333.6, | 101.5, | 17.7,   | 32.6,  |

SOURCE ID: TTP51

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -17.3,  | 46.1,  | 2   | 13.7, | 340.1, | 204.2, | -51.8,  | 55.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -84.7,  | 63.6,  | 4   | 13.7, | 306.8, | 285.7, | -115.1, | 69.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -141.9, | 73.4,  | 6   | 13.7, | 236.4, | 332.7, | -164.5, | 75.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -182.0, | 74.4,  | 8   | 13.7, | 138.4, | 339.6, | -194.0, | 71.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -216.8, | 59.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -225.7, | 50.3,  | 12  | 13.7, | 248.8, | 328.4, | -227.8, | 39.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -222.9, | 27.8,  | 14  | 13.7, | 314.0, | 275.8, | -211.3, | 15.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -193.3, | 1.9,   | 16  | 13.7, | 341.3, | 189.9, | -169.4, | -11.4, |
| 17  | 13.7, | 339.6, | 138.4, | -141.1, | -24.2, | 18  | 13.7, | 333.6, | 101.5, | -119.2, | -35.7, |
| 19  | 13.7, | 341.4, | 154.2, | -136.9, | -46.1, | 20  | 13.7, | 340.1, | 204.2, | -152.4, | -55.7, |
| 21  | 13.7, | 328.4, | 248.8, | -164.0, | -63.6, | 22  | 13.7, | 306.8, | 285.7, | -170.6, | -69.6, |
| 23  | 13.7, | 275.8, | 314.0, | -172.0, | -73.4, | 24  | 13.7, | 236.4, | 332.7, | -168.2, | -75.1, |
| 25  | 13.7, | 189.9, | 341.3, | -159.3, | -74.4, | 26  | 13.7, | 138.4, | 339.6, | -145.5, | -71.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -124.6, | -59.8, |
| 29  | 13.7, | 204.2, | 340.1, | -114.4, | -50.3, | 30  | 13.7, | 248.8, | 328.4, | -100.6, | -39.6, |
| 31  | 13.7, | 285.7, | 306.8, | -83.8,  | -27.8, | 32  | 13.7, | 314.0, | 275.8, | -64.5,  | -15.1, |
| 33  | 13.7, | 332.7, | 236.4, | -43.1,  | -1.9,  | 34  | 13.7, | 341.3, | 189.9, | -20.5,  | 11.4,  |
| 35  | 13.7, | 339.6, | 138.4, | 2.7,    | 24.2,  | 36  | 13.7, | 333.6, | 101.5, | 17.7,   | 35.7,  |

SOURCE ID: TTP52

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.1,  | 49.1,  | 2   | 13.7, | 340.1, | 204.2, | -53.1,  | 58.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -86.5,  | 66.2,  | 4   | 13.7, | 306.8, | 285.7, | -117.3, | 71.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -144.5, | 75.3,  | 6   | 13.7, | 236.4, | 332.7, | -167.3, | 76.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -185.1, | 75.3,  | 8   | 13.7, | 138.4, | 339.6, | -197.2, | 72.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -219.8, | 59.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -228.6, | 49.0,  | 12  | 13.7, | 248.8, | 328.4, | -230.4, | 37.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -225.2, | 25.6,  | 14  | 13.7, | 314.0, | 275.8, | -213.2, | 12.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -194.7, | -1.0,  | 16  | 13.7, | 341.3, | 189.9, | -170.2, | -14.4, |
| 17  | 13.7, | 339.6, | 138.4, | -141.4, | -27.4, | 18  | 13.7, | 333.6, | 101.5, | -118.9, | -38.8, |
| 19  | 13.7, | 341.4, | 154.2, | -136.1, | -49.1, | 20  | 13.7, | 340.1, | 204.2, | -151.1, | -58.6, |
| 21  | 13.7, | 328.4, | 248.8, | -162.2, | -66.2, | 22  | 13.7, | 306.8, | 285.7, | -168.4, | -71.8, |
| 23  | 13.7, | 275.8, | 314.0, | -169.5, | -75.3, | 24  | 13.7, | 236.4, | 332.7, | -165.4, | -76.4, |
| 25  | 13.7, | 189.9, | 341.3, | -156.2, | -75.3, | 26  | 13.7, | 138.4, | 339.6, | -142.4, | -72.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -121.6, | -59.0, |
| 29  | 13.7, | 204.2, | 340.1, | -111.5, | -49.0, | 30  | 13.7, | 248.8, | 328.4, | -98.0,  | -37.9, |
| 31  | 13.7, | 285.7, | 306.8, | -81.5,  | -25.6, | 32  | 13.7, | 314.0, | 275.8, | -62.6,  | -12.5, |
| 33  | 13.7, | 332.7, | 236.4, | -41.8,  | 1.0,   | 34  | 13.7, | 341.3, | 189.9, | -19.7,  | 14.4,  |
| 35  | 13.7, | 339.6, | 138.4, | 3.0,    | 27.4,  | 36  | 13.7, | 333.6, | 101.5, | 17.5,   | 38.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 78

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP53

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -18.8,  | 52.1, | 2   | 13.7, | 340.1, | 204.2, | -54.3,  | 61.4, |
| 3   | 13.7, | 328.4, | 248.8, | -88.1,  | 68.8, | 4   | 13.7, | 306.8, | 285.7, | -119.3, | 74.1, |
| 5   | 13.7, | 275.8, | 314.0, | -146.9, | 77.1, | 6   | 13.7, | 236.4, | 332.7, | -170.0, | 77.8, |
| 7   | 13.7, | 189.9, | 341.3, | -188.0, | 76.2, | 8   | 13.7, | 138.4, | 339.6, | -200.2, | 72.6, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -222.8, | 58.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -231.4, | 47.8,  | 12 | 13.7, | 248.8, | 328.4, | -233.0, | 36.2,  |
| 13 | 13.7, | 285.7, | 306.8, | -227.5, | 23.5,  | 14 | 13.7, | 314.0, | 275.8, | -215.0, | 10.1,  |
| 15 | 13.7, | 332.7, | 236.4, | -196.1, | -3.7,  | 16 | 13.7, | 341.3, | 189.9, | -171.2, | -17.3, |
| 17 | 13.7, | 339.6, | 138.4, | -141.8, | -30.4, | 18 | 13.7, | 333.6, | 101.5, | -118.8, | -41.9, |
| 19 | 13.7, | 341.4, | 154.2, | -135.4, | -52.1, | 20 | 13.7, | 340.1, | 204.2, | -150.0, | -61.4, |
| 21 | 13.7, | 328.4, | 248.8, | -160.6, | -68.8, | 22 | 13.7, | 306.8, | 285.7, | -166.4, | -74.1, |
| 23 | 13.7, | 275.8, | 314.0, | -167.0, | -77.1, | 24 | 13.7, | 236.4, | 332.7, | -162.7, | -77.8, |
| 25 | 13.7, | 189.9, | 341.3, | -153.3, | -76.2, | 26 | 13.7, | 138.4, | 339.6, | -139.4, | -72.6, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -118.6, | -58.3, |
| 29 | 13.7, | 204.2, | 340.1, | -108.6, | -47.8, | 30 | 13.7, | 248.8, | 328.4, | -95.4,  | -36.2, |
| 31 | 13.7, | 285.7, | 306.8, | -79.3,  | -23.5, | 32 | 13.7, | 314.0, | 275.8, | -60.8,  | -10.1, |
| 33 | 13.7, | 332.7, | 236.4, | -40.4,  | 3.7,   | 34 | 13.7, | 341.3, | 189.9, | -18.8,  | 17.3,  |
| 35 | 13.7, | 339.6, | 138.4, | 3.4,    | 30.4,  | 36 | 13.7, | 333.6, | 101.5, | 17.4,   | 41.9,  |

SOURCE ID: TTP54

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -19.1,  | 55.0,  | 2   | 13.7, | 340.1, | 204.2, | -55.1,  | 64.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.5,  | 71.4,  | 4   | 13.7, | 306.8, | 285.7, | -121.1, | 76.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -149.1, | 79.1,  | 6   | 13.7, | 236.4, | 332.7, | -172.5, | 79.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -190.7, | 77.3,  | 8   | 13.7, | 138.4, | 339.6, | -203.1, | 73.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -225.7, | 57.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -234.2, | 47.0,  | 12  | 13.7, | 248.8, | 328.4, | -235.6, | 34.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -229.8, | 21.7,  | 14  | 13.7, | 314.0, | 275.8, | -217.0, | 7.9,   |
| 15  | 13.7, | 332.7, | 236.4, | -197.6, | -6.1,  | 16  | 13.7, | 341.3, | 189.9, | -172.3, | -20.0, |
| 17  | 13.7, | 339.6, | 138.4, | -142.4, | -33.3, | 18  | 13.7, | 333.6, | 101.5, | -118.9, | -44.8, |
| 19  | 13.7, | 341.4, | 154.2, | -135.0, | -55.0, | 20  | 13.7, | 340.1, | 204.2, | -149.1, | -64.2, |
| 21  | 13.7, | 328.4, | 248.8, | -159.2, | -71.4, | 22  | 13.7, | 306.8, | 285.7, | -164.6, | -76.4, |
| 23  | 13.7, | 275.8, | 314.0, | -164.9, | -79.1, | 24  | 13.7, | 236.4, | 332.7, | -160.2, | -79.4, |
| 25  | 13.7, | 189.9, | 341.3, | -150.6, | -77.3, | 26  | 13.7, | 138.4, | 339.6, | -136.5, | -73.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -115.7, | -57.9, |
| 29  | 13.7, | 204.2, | 340.1, | -105.9, | -47.0, | 30  | 13.7, | 248.8, | 328.4, | -92.8,  | -34.9, |
| 31  | 13.7, | 285.7, | 306.8, | -77.0,  | -21.7, | 32  | 13.7, | 314.0, | 275.8, | -58.8,  | -7.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -38.8,  | 6.1,   | 34  | 13.7, | 341.3, | 189.9, | -17.6,  | 20.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 4.1,    | 33.3,  | 36  | 13.7, | 333.6, | 101.5, | 17.5,   | 44.8,  |

SOURCE ID: TTP55

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -20.0,  | 57.9,  | 2   | 13.7, | 340.1, | 204.2, | -56.5,  | 66.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -91.3,  | 73.8,  | 4   | 13.7, | 306.8, | 285.7, | -123.4, | 78.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -151.7, | 80.8,  | 6   | 13.7, | 236.4, | 332.7, | -175.3, | 80.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.7, | 78.0,  | 8   | 13.7, | 138.4, | 339.6, | -206.1, | 73.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -228.7, | 57.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -236.9, | 45.6,  | 12  | 13.7, | 248.8, | 328.4, | -238.0, | 33.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -231.9, | 19.5,  | 14  | 13.7, | 314.0, | 275.8, | -218.7, | 5.3,   |
| 15  | 13.7, | 332.7, | 236.4, | -198.8, | -9.0,  | 16  | 13.7, | 341.3, | 189.9, | -173.0, | -23.0, |
| 17  | 13.7, | 339.6, | 138.4, | -142.6, | -36.3, | 18  | 13.7, | 333.6, | 101.5, | -118.6, | -47.8, |
| 19  | 13.7, | 341.4, | 154.2, | -134.1, | -57.9, | 20  | 13.7, | 340.1, | 204.2, | -147.7, | -66.9, |
| 21  | 13.7, | 328.4, | 248.8, | -157.4, | -73.8, | 22  | 13.7, | 306.8, | 285.7, | -162.3, | -78.5, |
| 23  | 13.7, | 275.8, | 314.0, | -162.3, | -80.8, | 24  | 13.7, | 236.4, | 332.7, | -157.4, | -80.6, |
| 25  | 13.7, | 189.9, | 341.3, | -147.7, | -78.0, | 26  | 13.7, | 138.4, | 339.6, | -133.4, | -73.4, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -112.8, | -57.1, |
| 29  | 13.7, | 204.2, | 340.1, | -103.1, | -45.6, | 30  | 13.7, | 248.8, | 328.4, | -90.4,  | -33.0, |
| 31  | 13.7, | 285.7, | 306.8, | -74.9,  | -19.5, | 32  | 13.7, | 314.0, | 275.8, | -57.1,  | -5.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -37.6,  | 9.0,   | 34  | 13.7, | 341.3, | 189.9, | -16.9,  | 23.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 4.2,    | 36.3,  | 36  | 13.7, | 333.6, | 101.5, | 17.1,   | 47.8,  |

SOURCE ID: TTP56

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -20.7,  | 60.8, | 2   | 13.7, | 340.1, | 204.2, | -57.6,  | 69.6, |
| 3   | 13.7, | 328.4, | 248.8, | -92.9,  | 76.3, | 4   | 13.7, | 306.8, | 285.7, | -125.3, | 80.7, |
| 5   | 13.7, | 275.8, | 314.0, | -154.0, | 82.6, | 6   | 13.7, | 236.4, | 332.7, | -177.9, | 82.0, |
| 7   | 13.7, | 189.9, | 341.3, | -196.5, | 78.9, | 8   | 13.7, | 138.4, | 339.6, | -209.0, | 73.8, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -231.5, | 56.4,  |
| 11 | 13.7, | 204.2, | 340.1, | -239.7, | 44.5,  | 12 | 13.7, | 248.8, | 328.4, | -240.5, | 31.5,  |
| 13 | 13.7, | 285.7, | 306.8, | -234.0, | 17.5,  | 14 | 13.7, | 314.0, | 275.8, | -220.5, | 3.0,   |
| 15 | 13.7, | 332.7, | 236.4, | -200.2, | -11.6, | 16 | 13.7, | 341.3, | 189.9, | -173.9, | -25.8, |
| 17 | 13.7, | 339.6, | 138.4, | -143.0, | -39.2, | 18 | 13.7, | 333.6, | 101.5, | -118.4, | -50.8, |
| 19 | 13.7, | 341.4, | 154.2, | -133.5, | -60.8, | 20 | 13.7, | 340.1, | 204.2, | -146.6, | -69.6, |
| 21 | 13.7, | 328.4, | 248.8, | -155.8, | -76.3, | 22 | 13.7, | 306.8, | 285.7, | -160.4, | -80.7, |
| 23 | 13.7, | 275.8, | 314.0, | -160.0, | -82.6, | 24 | 13.7, | 236.4, | 332.7, | -154.8, | -82.0, |
| 25 | 13.7, | 189.9, | 341.3, | -144.9, | -78.9, | 26 | 13.7, | 138.4, | 339.6, | -130.5, | -73.8, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -109.9, | -56.4, |
| 29 | 13.7, | 204.2, | 340.1, | -100.4, | -44.5, | 30 | 13.7, | 248.8, | 328.4, | -87.9,  | -31.5, |
| 31 | 13.7, | 285.7, | 306.8, | -72.7,  | -17.5, | 32 | 13.7, | 314.0, | 275.8, | -55.3,  | -3.0,  |
| 33 | 13.7, | 332.7, | 236.4, | -36.2,  | 11.6,  | 34 | 13.7, | 341.3, | 189.9, | -16.1,  | 25.8,  |
| 35 | 13.7, | 339.6, | 138.4, | 4.6,    | 39.2,  | 36 | 13.7, | 333.6, | 101.5, | 17.0,   | 50.8,  |


 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*      \*\*\*      09:17:47

PAGE 79

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP57

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.2,  | 63.8,  | 2   | 13.7, | 340.1, | 204.2, | -58.7,  | 72.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.4,  | 78.9,  | 4   | 13.7, | 306.8, | 285.7, | -127.3, | 83.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -156.3, | 84.5,  | 6   | 13.7, | 236.4, | 332.7, | -180.6, | 83.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -199.3, | 79.9,  | 8   | 13.7, | 138.4, | 339.6, | -212.0, | 74.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -234.5, | 55.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -242.5, | 43.4,  | 12  | 13.7, | 248.8, | 328.4, | -243.1, | 29.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -236.4, | 15.6,  | 14  | 13.7, | 314.0, | 275.8, | -222.4, | 0.7,   |
| 15  | 13.7, | 332.7, | 236.4, | -201.7, | -14.2, | 16  | 13.7, | 341.3, | 189.9, | -174.9, | -28.7, |
| 17  | 13.7, | 339.6, | 138.4, | -143.5, | -42.2, | 18  | 13.7, | 333.6, | 101.5, | -118.4, | -53.8, |
| 19  | 13.7, | 341.4, | 154.2, | -133.0, | -63.8, | 20  | 13.7, | 340.1, | 204.2, | -145.6, | -72.5, |
| 21  | 13.7, | 328.4, | 248.8, | -154.3, | -78.9, | 22  | 13.7, | 306.8, | 285.7, | -158.4, | -83.0, |
| 23  | 13.7, | 275.8, | 314.0, | -157.7, | -84.5, | 24  | 13.7, | 236.4, | 332.7, | -152.1, | -83.5, |
| 25  | 13.7, | 189.9, | 341.3, | -142.0, | -79.9, | 26  | 13.7, | 138.4, | 339.6, | -127.5, | -74.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -106.9, | -55.9, |
| 29  | 13.7, | 204.2, | 340.1, | -97.6,  | -43.4, | 30  | 13.7, | 248.8, | 328.4, | -85.3,  | -29.9, |
| 31  | 13.7, | 285.7, | 306.8, | -70.4,  | -15.6, | 32  | 13.7, | 314.0, | 275.8, | -53.4,  | -0.7,  |
| 33  | 13.7, | 332.7, | 236.4, | -34.7,  | 14.2,  | 34  | 13.7, | 341.3, | 189.9, | -15.0,  | 28.7,  |
| 35  | 13.7, | 339.6, | 138.4, | 5.1,    | 42.2,  | 36  | 13.7, | 333.6, | 101.5, | 17.0,   | 53.8,  |

SOURCE ID: TTP58

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.0,  | 66.9,  | 2   | 13.7, | 340.1, | 204.2, | -60.0,  | 75.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -96.2,  | 81.5,  | 4   | 13.7, | 306.8, | 285.7, | -129.5, | 85.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -158.9, | 86.4,  | 6   | 13.7, | 236.4, | 332.7, | -183.4, | 84.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -202.4, | 80.8,  | 8   | 13.7, | 138.4, | 339.6, | -215.2, | 74.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -237.6, | 55.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -245.4, | 42.1,  | 12  | 13.7, | 248.8, | 328.4, | -245.8, | 28.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -238.6, | 13.3,  | 14  | 13.7, | 314.0, | 275.8, | -224.3, | -1.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -203.1, | -17.1, | 16  | 13.7, | 341.3, | 189.9, | -175.8, | -31.7, |
| 17  | 13.7, | 339.6, | 138.4, | -143.8, | -45.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -57.0, |
| 19  | 13.7, | 341.4, | 154.2, | -132.2, | -66.9, | 20  | 13.7, | 340.1, | 204.2, | -144.2, | -75.4, |
| 21  | 13.7, | 328.4, | 248.8, | -152.5, | -81.5, | 22  | 13.7, | 306.8, | 285.7, | -156.2, | -85.3, |
| 23  | 13.7, | 275.8, | 314.0, | -155.1, | -86.4, | 24  | 13.7, | 236.4, | 332.7, | -149.3, | -84.9, |
| 25  | 13.7, | 189.9, | 341.3, | -138.9, | -80.8, | 26  | 13.7, | 138.4, | 339.6, | -124.4, | -74.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -103.8, | -55.1, |
| 29  | 13.7, | 204.2, | 340.1, | -94.7,  | -42.1, | 30  | 13.7, | 248.8, | 328.4, | -82.6,  | -28.2, |
| 31  | 13.7, | 285.7, | 306.8, | -68.1,  | -13.3, | 32  | 13.7, | 314.0, | 275.8, | -51.5,  | 1.9,   |

|    |       |        |        |        |       |    |       |        |        |        |       |
|----|-------|--------|--------|--------|-------|----|-------|--------|--------|--------|-------|
| 33 | 13.7, | 332.7, | 236.4, | -33.3, | 17.1, | 34 | 13.7, | 341.3, | 189.9, | -14.2, | 31.7, |
| 35 | 13.7, | 339.6, | 138.4, | 5.5,   | 45.4, | 36 | 13.7, | 333.6, | 101.5, | 16.8,  | 57.0, |

SOURCE ID: TTP59

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.6,  | 69.9,  | 2   | 13.7, | 340.1, | 204.2, | -61.2,  | 78.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -97.9,  | 84.1,  | 4   | 13.7, | 306.8, | 285.7, | -131.6, | 87.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -161.3, | 88.2,  | 6   | 13.7, | 236.4, | 332.7, | -186.1, | 86.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -205.3, | 81.7,  | 8   | 13.7, | 138.4, | 339.6, | -218.2, | 75.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -240.6, | 54.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -248.2, | 41.0,  | 12  | 13.7, | 248.8, | 328.4, | -248.3, | 26.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -240.9, | 11.3,  | 14  | 13.7, | 314.0, | 275.8, | -226.1, | -4.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -204.5, | -19.8, | 16  | 13.7, | 341.3, | 189.9, | -176.7, | -34.6, |
| 17  | 13.7, | 339.6, | 138.4, | -144.2, | -48.4, | 18  | 13.7, | 333.6, | 101.5, | -118.1, | -60.0, |
| 19  | 13.7, | 341.4, | 154.2, | -131.5, | -69.9, | 20  | 13.7, | 340.1, | 204.2, | -143.1, | -78.2, |
| 21  | 13.7, | 328.4, | 248.8, | -150.9, | -84.1, | 22  | 13.7, | 306.8, | 285.7, | -154.1, | -87.5, |
| 23  | 13.7, | 275.8, | 314.0, | -152.7, | -88.2, | 24  | 13.7, | 236.4, | 332.7, | -146.6, | -86.3, |
| 25  | 13.7, | 189.9, | 341.3, | -136.0, | -81.7, | 26  | 13.7, | 138.4, | 339.6, | -121.4, | -75.0, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -100.8, | -54.5, |
| 29  | 13.7, | 204.2, | 340.1, | -91.9,  | -41.0, | 30  | 13.7, | 248.8, | 328.4, | -80.1,  | -26.5, |
| 31  | 13.7, | 285.7, | 306.8, | -65.9,  | -11.3, | 32  | 13.7, | 314.0, | 275.8, | -49.6,  | 4.3,   |
| 33  | 13.7, | 332.7, | 236.4, | -31.9,  | 19.8,  | 34  | 13.7, | 341.3, | 189.9, | -13.2,  | 34.6,  |
| 35  | 13.7, | 339.6, | 138.4, | 5.9,    | 48.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.6,   | 60.0,  |

SOURCE ID: TTP60

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.0,  | 72.8,  | 2   | 13.7, | 340.1, | 204.2, | -62.0,  | 81.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -99.2,  | 86.7,  | 4   | 13.7, | 306.8, | 285.7, | -133.4, | 89.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -163.5, | 90.2,  | 6   | 13.7, | 236.4, | 332.7, | -188.6, | 87.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.0, | 82.8,  | 8   | 13.7, | 138.4, | 339.6, | -221.1, | 75.7,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -243.5, | 54.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -251.0, | 40.1,  | 12  | 13.7, | 248.8, | 328.4, | -250.9, | 25.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -243.2, | 9.5,   | 14  | 13.7, | 314.0, | 275.8, | -228.1, | -6.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -206.1, | -22.2, | 16  | 13.7, | 341.3, | 189.9, | -177.8, | -37.3, |
| 17  | 13.7, | 339.6, | 138.4, | -144.9, | -51.3, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -62.9, |
| 19  | 13.7, | 341.4, | 154.2, | -131.2, | -72.8, | 20  | 13.7, | 340.1, | 204.2, | -142.2, | -81.0, |
| 21  | 13.7, | 328.4, | 248.8, | -149.6, | -86.7, | 22  | 13.7, | 306.8, | 285.7, | -152.4, | -89.8, |
| 23  | 13.7, | 275.8, | 314.0, | -150.5, | -90.2, | 24  | 13.7, | 236.4, | 332.7, | -144.1, | -87.9, |
| 25  | 13.7, | 189.9, | 341.3, | -133.3, | -82.8, | 26  | 13.7, | 138.4, | 339.6, | -118.5, | -75.7, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -98.0,  | -54.1, |
| 29  | 13.7, | 204.2, | 340.1, | -89.1,  | -40.1, | 30  | 13.7, | 248.8, | 328.4, | -77.5,  | -25.2, |
| 31  | 13.7, | 285.7, | 306.8, | -63.5,  | -9.5,  | 32  | 13.7, | 314.0, | 275.8, | -47.7,  | 6.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -30.4,  | 22.2,  | 34  | 13.7, | 341.3, | 189.9, | -12.1,  | 37.3,  |
| 35  | 13.7, | 339.6, | 138.4, | 6.5,    | 51.3,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 62.9,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

09:17:47

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP61

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -23.4,  | 76.0, | 2   | 13.7, | 340.1, | 204.2, | -63.0,  | 84.1, |
| 3   | 13.7, | 328.4, | 248.8, | -100.8, | 89.6, | 4   | 13.7, | 306.8, | 285.7, | -135.4, | 92.4, |
| 5   | 13.7, | 275.8, | 314.0, | -165.9, | 92.4, | 6   | 13.7, | 236.4, | 332.7, | -191.4, | 89.6, |
| 7   | 13.7, | 189.9, | 341.3, | -211.0, | 84.1, | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -246.7, | 53.6, |
| 11  | 13.7, | 204.2, | 340.1, | -254.1, | 39.1, | 12  | 13.7, | 248.8, | 328.4, | -253.8, | 23.6, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -245.8, | 7.5,   | 14 | 13.7, | 314.0, | 275.8, | -230.3, | -8.9,  |
| 15 | 13.7, | 332.7, | 236.4, | -207.8, | -25.0, | 16 | 13.7, | 341.3, | 189.9, | -179.0, | -40.4, |
| 17 | 13.7, | 339.6, | 138.4, | -145.5, | -54.5, | 18 | 13.7, | 333.6, | 101.5, | -118.3, | -66.2, |
| 19 | 13.7, | 341.4, | 154.2, | -130.7, | -76.0, | 20 | 13.7, | 340.1, | 204.2, | -141.2, | -84.1, |
| 21 | 13.7, | 328.4, | 248.8, | -148.0, | -89.6, | 22 | 13.7, | 306.8, | 285.7, | -150.3, | -92.4, |
| 23 | 13.7, | 275.8, | 314.0, | -148.1, | -92.4, | 24 | 13.7, | 236.4, | 332.7, | -141.3, | -89.6, |
| 25 | 13.7, | 189.9, | 341.3, | -130.3, | -84.1, | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -94.7,  | -53.6, |
| 29 | 13.7, | 204.2, | 340.1, | -85.9,  | -39.1, | 30 | 13.7, | 248.8, | 328.4, | -74.6,  | -23.6, |
| 31 | 13.7, | 285.7, | 306.8, | -60.9,  | -7.5,  | 32 | 13.7, | 314.0, | 275.8, | -45.5,  | 8.9,   |
| 33 | 13.7, | 332.7, | 236.4, | -28.6,  | 25.0,  | 34 | 13.7, | 341.3, | 189.9, | -10.9,  | 40.4,  |
| 35 | 13.7, | 339.6, | 138.4, | 7.2,    | 54.5,  | 36 | 13.7, | 333.6, | 101.5, | 16.9,   | 66.2,  |

SOURCE ID: TTP62

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.1,  | 78.9,  | 2   | 13.7, | 340.1, | 204.2, | -64.2,  | 86.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -102.3, | 92.1,  | 4   | 13.7, | 306.8, | 285.7, | -137.4, | 94.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -168.2, | 94.2,  | 6   | 13.7, | 236.4, | 332.7, | -194.0, | 91.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -213.8, | 85.0,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -249.6, | 53.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -256.8, | 37.9,  | 12  | 13.7, | 248.8, | 328.4, | -256.3, | 22.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -248.0, | 5.5,   | 14  | 13.7, | 314.0, | 275.8, | -232.1, | -11.2, |
| 15  | 13.7, | 332.7, | 236.4, | -209.2, | -27.6, | 16  | 13.7, | 341.3, | 189.9, | -179.9, | -43.2, |
| 17  | 13.7, | 339.6, | 138.4, | -145.9, | -57.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -69.2, |
| 19  | 13.7, | 341.4, | 154.2, | -130.1, | -78.9, | 20  | 13.7, | 340.1, | 204.2, | -140.1, | -86.8, |
| 21  | 13.7, | 328.4, | 248.8, | -146.4, | -92.1, | 22  | 13.7, | 306.8, | 285.7, | -148.4, | -94.6, |
| 23  | 13.7, | 275.8, | 314.0, | -145.8, | -94.2, | 24  | 13.7, | 236.4, | 332.7, | -138.7, | -91.0, |
| 25  | 13.7, | 189.9, | 341.3, | -127.5, | -85.0, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -91.8,  | -53.0, |
| 29  | 13.7, | 204.2, | 340.1, | -83.2,  | -37.9, | 30  | 13.7, | 248.8, | 328.4, | -72.1,  | -22.1, |
| 31  | 13.7, | 285.7, | 306.8, | -58.8,  | -5.5,  | 32  | 13.7, | 314.0, | 275.8, | -43.7,  | 11.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -27.2,  | 27.6,  | 34  | 13.7, | 341.3, | 189.9, | -10.0,  | 43.2,  |
| 35  | 13.7, | 339.6, | 138.4, | 7.6,    | 57.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 69.2,  |

SOURCE ID: TTP63

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.6,  | 81.9,  | 2   | 13.7, | 340.1, | 204.2, | -65.2,  | 89.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -103.8, | 94.7,  | 4   | 13.7, | 306.8, | 285.7, | -139.3, | 96.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -170.5, | 96.2,  | 6   | 13.7, | 236.4, | 332.7, | -196.6, | 92.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -216.7, | 86.0,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -252.6, | 52.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -259.7, | 36.9,  | 12  | 13.7, | 248.8, | 328.4, | -258.9, | 20.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -250.3, | 3.5,   | 14  | 13.7, | 314.0, | 275.8, | -234.1, | -13.6, |
| 15  | 13.7, | 332.7, | 236.4, | -210.7, | -30.2, | 16  | 13.7, | 341.3, | 189.9, | -181.0, | -46.0, |
| 17  | 13.7, | 339.6, | 138.4, | -146.5, | -60.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -72.2, |
| 19  | 13.7, | 341.4, | 154.2, | -129.6, | -81.9, | 20  | 13.7, | 340.1, | 204.2, | -139.0, | -89.7, |
| 21  | 13.7, | 328.4, | 248.8, | -144.9, | -94.7, | 22  | 13.7, | 306.8, | 285.7, | -146.4, | -96.9, |
| 23  | 13.7, | 275.8, | 314.0, | -143.4, | -96.2, | 24  | 13.7, | 236.4, | 332.7, | -136.1, | -92.5, |
| 25  | 13.7, | 189.9, | 341.3, | -124.6, | -86.0, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -88.8,  | -52.5, |
| 29  | 13.7, | 204.2, | 340.1, | -80.4,  | -36.9, | 30  | 13.7, | 248.8, | 328.4, | -69.5,  | -20.5, |
| 31  | 13.7, | 285.7, | 306.8, | -56.4,  | -3.5,  | 32  | 13.7, | 314.0, | 275.8, | -41.7,  | 13.6,  |
| 33  | 13.7, | 332.7, | 236.4, | -25.7,  | 30.2,  | 34  | 13.7, | 341.3, | 189.9, | -8.9,   | 46.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 8.1,    | 60.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 72.2,  |

SOURCE ID: TTP64

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -25.4,  | 85.0, | 2   | 13.7, | 340.1, | 204.2, | -66.5,  | 92.6, |
| 3   | 13.7, | 328.4, | 248.8, | -105.6, | 97.4, | 4   | 13.7, | 306.8, | 285.7, | -141.5, | 99.2, |
| 5   | 13.7, | 275.8, | 314.0, | -173.1, | 98.0, | 6   | 13.7, | 236.4, | 332.7, | -199.5, | 93.9, |
| 7   | 13.7, | 189.9, | 341.3, | -219.7, | 86.8, | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -255.7, | 51.7, |
| 11  | 13.7, | 204.2, | 340.1, | -262.6, | 35.6, | 12  | 13.7, | 248.8, | 328.4, | -261.6, | 18.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 13 | 13.7, | 285.7, | 306.8, | -252.6, | 1.3,   | 14 | 13.7, | 314.0, | 275.8, | -235.9, | -16.2, |
| 15 | 13.7, | 332.7, | 236.4, | -212.1, | -33.1, | 16 | 13.7, | 341.3, | 189.9, | -181.8, | -49.1, |
| 17 | 13.7, | 339.6, | 138.4, | -146.8, | -63.6, | 18 | 13.7, | 333.6, | 101.5, | -118.0, | -75.4, |
| 19 | 13.7, | 341.4, | 154.2, | -128.8, | -85.0, | 20 | 13.7, | 340.1, | 204.2, | -137.7, | -92.6, |
| 21 | 13.7, | 328.4, | 248.8, | -143.1, | -97.4, | 22 | 13.7, | 306.8, | 285.7, | -144.2, | -99.2, |
| 23 | 13.7, | 275.8, | 314.0, | -140.8, | -98.0, | 24 | 13.7, | 236.4, | 332.7, | -133.2, | -93.9, |
| 25 | 13.7, | 189.9, | 341.3, | -121.6, | -86.8, | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -85.8,  | -51.7, |
| 29 | 13.7, | 204.2, | 340.1, | -77.5,  | -35.6, | 30 | 13.7, | 248.8, | 328.4, | -66.8,  | -18.7, |
| 31 | 13.7, | 285.7, | 306.8, | -54.2,  | -1.3,  | 32 | 13.7, | 314.0, | 275.8, | -39.9,  | 16.2,  |
| 33 | 13.7, | 332.7, | 236.4, | -24.4,  | 33.1,  | 34 | 13.7, | 341.3, | 189.9, | -8.1,   | 49.1,  |
| 35 | 13.7, | 339.6, | 138.4, | 8.4,    | 63.6,  | 36 | 13.7, | 333.6, | 101.5, | 16.5,   | 75.4,  |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

09:17:47

PAGE 81

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP65

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -26.1,  | 87.9,  | 2   | 13.7, | 340.1, | 204.2, | -67.7,  | 95.4,   |
| 3   | 13.7, | 328.4, | 248.8, | -107.3, | 99.9,  | 4   | 13.7, | 306.8, | 285.7, | -143.6, | 101.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -175.5, | 99.9,  | 6   | 13.7, | 236.4, | 332.7, | -202.2, | 95.3,   |
| 7   | 13.7, | 189.9, | 341.3, | -222.6, | 87.8,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -258.6, | 51.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -265.4, | 34.4,  | 12  | 13.7, | 248.8, | 328.4, | -264.1, | 17.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -254.8, | -0.7,  | 14  | 13.7, | 314.0, | 275.8, | -237.8, | -18.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -213.5, | -35.8, | 16  | 13.7, | 341.3, | 189.9, | -182.7, | -52.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -147.2, | -66.6, | 18  | 13.7, | 333.6, | 101.5, | -117.8, | -78.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -128.1, | -87.9, | 20  | 13.7, | 340.1, | 204.2, | -136.6, | -95.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -141.5, | -99.9, | 22  | 13.7, | 306.8, | 285.7, | -142.1, | -101.4, |
| 23  | 13.7, | 275.8, | 314.0, | -138.4, | -99.9, | 24  | 13.7, | 236.4, | 332.7, | -130.5, | -95.3,  |
| 25  | 13.7, | 189.9, | 341.3, | -118.7, | -87.8, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -82.8,  | -51.0,  |
| 29  | 13.7, | 204.2, | 340.1, | -74.7,  | -34.4, | 30  | 13.7, | 248.8, | 328.4, | -64.3,  | -17.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -51.9,  | 0.7,   | 32  | 13.7, | 314.0, | 275.8, | -38.0,  | 18.6,   |
| 33  | 13.7, | 332.7, | 236.4, | -22.9,  | 35.8,  | 34  | 13.7, | 341.3, | 189.9, | -7.2,   | 52.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 8.8,    | 66.6,  | 36  | 13.7, | 333.6, | 101.5, | 16.4,   | 78.4,   |

SOURCE ID: TTP66

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -26.4,  | 90.8,   | 2   | 13.7, | 340.1, | 204.2, | -68.6,  | 98.2,   |
| 3   | 13.7, | 328.4, | 248.8, | -108.6, | 102.5,  | 4   | 13.7, | 306.8, | 285.7, | -145.4, | 103.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -177.7, | 101.8,  | 6   | 13.7, | 236.4, | 332.7, | -204.6, | 96.8,   |
| 7   | 13.7, | 189.9, | 341.3, | -225.3, | 88.9,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -261.5, | 50.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -268.2, | 33.6,   | 12  | 13.7, | 248.8, | 328.4, | -266.7, | 15.8,   |
| 13  | 13.7, | 285.7, | 306.8, | -257.1, | -2.5,   | 14  | 13.7, | 314.0, | 275.8, | -239.7, | -20.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -215.1, | -38.3,  | 16  | 13.7, | 341.3, | 189.9, | -183.8, | -54.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -147.8, | -69.4,  | 18  | 13.7, | 333.6, | 101.5, | -118.0, | -81.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.7, | -90.8,  | 20  | 13.7, | 340.1, | 204.2, | -135.7, | -98.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -140.1, | -102.5, | 22  | 13.7, | 306.8, | 285.7, | -140.3, | -103.8, |
| 23  | 13.7, | 275.8, | 314.0, | -136.3, | -101.8, | 24  | 13.7, | 236.4, | 332.7, | -128.1, | -96.8,  |
| 25  | 13.7, | 189.9, | 341.3, | -116.0, | -88.9,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -79.9,  | -50.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -71.9,  | -33.6,  | 30  | 13.7, | 248.8, | 328.4, | -61.7,  | -15.8,  |
| 31  | 13.7, | 285.7, | 306.8, | -49.6,  | 2.5,    | 32  | 13.7, | 314.0, | 275.8, | -36.0,  | 20.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -21.4,  | 38.3,   | 34  | 13.7, | 341.3, | 189.9, | -6.1,   | 54.7,   |
| 35  | 13.7, | 339.6, | 138.4, | 9.5,    | 69.4,   | 36  | 13.7, | 333.6, | 101.5, | 16.5,   | 81.3,   |



SOURCE ID: TTP67

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -27.2,  | 93.8,   | 2   | 13.7, | 340.1, | 204.2, | -69.8,  | 101.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -110.3, | 105.0,  | 4   | 13.7, | 306.8, | 285.7, | -147.5, | 105.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -180.2, | 103.6,  | 6   | 13.7, | 236.4, | 332.7, | -207.4, | 98.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -228.3, | 89.7,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -264.5, | 49.9,   |
| 11  | 13.7, | 204.2, | 340.1, | -271.0, | 32.3,   | 12  | 13.7, | 248.8, | 328.4, | -269.2, | 14.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -259.3, | -4.7,   | 14  | 13.7, | 314.0, | 275.8, | -241.5, | -23.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -216.4, | -41.0,  | 16  | 13.7, | 341.3, | 189.9, | -184.7, | -57.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -148.1, | -72.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.7, | -84.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.0, | -93.8,  | 20  | 13.7, | 340.1, | 204.2, | -134.4, | -101.0, |
| 21  | 13.7, | 328.4, | 248.8, | -138.4, | -105.0, | 22  | 13.7, | 306.8, | 285.7, | -138.2, | -105.9, |
| 23  | 13.7, | 275.8, | 314.0, | -133.8, | -103.6, | 24  | 13.7, | 236.4, | 332.7, | -125.3, | -98.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -113.0, | -89.7,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -76.9,  | -49.9,  |
| 29  | 13.7, | 204.2, | 340.1, | -69.1,  | -32.3,  | 30  | 13.7, | 248.8, | 328.4, | -59.2,  | -14.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -47.4,  | 4.7,    | 32  | 13.7, | 314.0, | 275.8, | -34.3,  | 23.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -20.1,  | 41.0,   | 34  | 13.7, | 341.3, | 189.9, | -5.2,   | 57.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 9.7,    | 72.5,   | 36  | 13.7, | 333.6, | 101.5, | 16.3,   | 84.4,   |

SOURCE ID: TTP68

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -27.8,  | 96.6,   | 2   | 13.7, | 340.1, | 204.2, | -71.0,  | 103.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -111.9, | 107.5,  | 4   | 13.7, | 306.8, | 285.7, | -149.5, | 108.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -182.5, | 105.4,  | 6   | 13.7, | 236.4, | 332.7, | -210.0, | 99.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -231.1, | 90.6,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -267.3, | 49.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -273.7, | 31.2,   | 12  | 13.7, | 248.8, | 328.4, | -271.7, | 12.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -261.5, | -6.6,   | 14  | 13.7, | 314.0, | 275.8, | -243.3, | -25.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -217.7, | -43.6,  | 16  | 13.7, | 341.3, | 189.9, | -185.5, | -60.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -148.5, | -75.4,  | 18  | 13.7, | 333.6, | 101.5, | -117.6, | -87.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.3, | -96.6,  | 20  | 13.7, | 340.1, | 204.2, | -133.3, | -103.6, |
| 21  | 13.7, | 328.4, | 248.8, | -136.8, | -107.5, | 22  | 13.7, | 306.8, | 285.7, | -136.2, | -108.1, |
| 23  | 13.7, | 275.8, | 314.0, | -131.5, | -105.4, | 24  | 13.7, | 236.4, | 332.7, | -122.7, | -99.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -110.2, | -90.6,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -74.1,  | -49.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -66.4,  | -31.2,  | 30  | 13.7, | 248.8, | 328.4, | -56.7,  | -12.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -45.3,  | 6.6,    | 32  | 13.7, | 314.0, | 275.8, | -32.5,  | 25.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -18.7,  | 43.6,   | 34  | 13.7, | 341.3, | 189.9, | -4.3,   | 60.4,   |
| 35  | 13.7, | 339.6, | 138.4, | 10.1,   | 75.4,   | 36  | 13.7, | 333.6, | 101.5, | 16.1,   | 87.3,   |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP69

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -28.4,  | 99.6,  | 2   | 13.7, | 340.1, | 204.2, | -72.0,  | 106.5, |
| 3   | 13.7, | 328.4, | 248.8, | -113.4, | 110.1, | 4   | 13.7, | 306.8, | 285.7, | -151.4, | 110.4, |
| 5   | 13.7, | 275.8, | 314.0, | -184.8, | 107.4, | 6   | 13.7, | 236.4, | 332.7, | -212.6, | 101.0, |
| 7   | 13.7, | 189.9, | 341.3, | -233.9, | 91.6,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -270.3, | 48.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -276.5, | 30.1,  | 12  | 13.7, | 248.8, | 328.4, | -274.3, | 10.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -263.8, | -8.6,  | 14  | 13.7, | 314.0, | 275.8, | -245.2, | -27.8, |
| 15  | 13.7, | 332.7, | 236.4, | -219.2, | -46.3, | 16  | 13.7, | 341.3, | 189.9, | -186.6, | -63.3, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 17 | 13.7, | 339.6, | 138.4, | -149.0, | -78.4,  | 18 | 13.7, | 333.6, | 101.5, | -117.6, | -90.3,  |
| 19 | 13.7, | 341.4, | 154.2, | -125.8, | -99.6,  | 20 | 13.7, | 340.1, | 204.2, | -132.3, | -106.5, |
| 21 | 13.7, | 328.4, | 248.8, | -135.3, | -110.1, | 22 | 13.7, | 306.8, | 285.7, | -134.3, | -110.4, |
| 23 | 13.7, | 275.8, | 314.0, | -129.1, | -107.4, | 24 | 13.7, | 236.4, | 332.7, | -120.1, | -101.0, |
| 25 | 13.7, | 189.9, | 341.3, | -107.4, | -91.6,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -71.1,  | -48.7,  |
| 29 | 13.7, | 204.2, | 340.1, | -63.5,  | -30.1,  | 30 | 13.7, | 248.8, | 328.4, | -54.1,  | -10.9,  |
| 31 | 13.7, | 285.7, | 306.8, | -42.9,  | 8.6,    | 32 | 13.7, | 314.0, | 275.8, | -30.5,  | 27.8,   |
| 33 | 13.7, | 332.7, | 236.4, | -17.2,  | 46.3,   | 34 | 13.7, | 341.3, | 189.9, | -3.3,   | 63.3,   |
| 35 | 13.7, | 339.6, | 138.4, | 10.7,   | 78.4,   | 36 | 13.7, | 333.6, | 101.5, | 16.1,   | 90.3,   |

SOURCE ID: TTP70

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -29.2,  | 102.7,  | 2   | 13.7, | 340.1, | 204.2, | -73.3,  | 109.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -115.2, | 112.8,  | 4   | 13.7, | 306.8, | 285.7, | -153.7, | 112.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -187.4, | 109.2,  | 6   | 13.7, | 236.4, | 332.7, | -215.5, | 102.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -237.0, | 92.5,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -273.4, | 47.9,   |
| 11  | 13.7, | 204.2, | 340.1, | -279.4, | 28.8,   | 12  | 13.7, | 248.8, | 328.4, | -277.0, | 9.1,    |
| 13  | 13.7, | 285.7, | 306.8, | -266.1, | -10.8,  | 14  | 13.7, | 314.0, | 275.8, | -247.1, | -30.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -220.6, | -49.1,  | 16  | 13.7, | 341.3, | 189.9, | -187.4, | -66.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -149.3, | -81.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.3, | -93.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -125.0, | -102.7, | 20  | 13.7, | 340.1, | 204.2, | -130.9, | -109.4, |
| 21  | 13.7, | 328.4, | 248.8, | -133.5, | -112.8, | 22  | 13.7, | 306.8, | 285.7, | -132.0, | -112.7, |
| 23  | 13.7, | 275.8, | 314.0, | -126.5, | -109.2, | 24  | 13.7, | 236.4, | 332.7, | -117.2, | -102.4, |
| 25  | 13.7, | 189.9, | 341.3, | -104.3, | -92.5,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -68.0,  | -47.9,  |
| 29  | 13.7, | 204.2, | 340.1, | -60.6,  | -28.8,  | 30  | 13.7, | 248.8, | 328.4, | -51.4,  | -9.1,   |
| 31  | 13.7, | 285.7, | 306.8, | -40.7,  | 10.8,   | 32  | 13.7, | 314.0, | 275.8, | -28.7,  | 30.4,   |
| 33  | 13.7, | 332.7, | 236.4, | -15.8,  | 49.1,   | 34  | 13.7, | 341.3, | 189.9, | -2.5,   | 66.3,   |
| 35  | 13.7, | 339.6, | 138.4, | 11.0,   | 81.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.9,   | 93.5,   |

SOURCE ID: TTP71

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -29.8,  | 105.7,  | 2   | 13.7, | 340.1, | 204.2, | -74.5,  | 112.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.9, | 115.3,  | 4   | 13.7, | 306.8, | 285.7, | -155.7, | 115.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -189.8, | 111.1,  | 6   | 13.7, | 236.4, | 332.7, | -218.2, | 103.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -239.9, | 93.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -276.4, | 47.3,   |
| 11  | 13.7, | 204.2, | 340.1, | -282.2, | 27.7,   | 12  | 13.7, | 248.8, | 328.4, | -279.5, | 7.5,    |
| 13  | 13.7, | 285.7, | 306.8, | -268.3, | -12.9,  | 14  | 13.7, | 314.0, | 275.8, | -249.0, | -32.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -222.0, | -51.8,  | 16  | 13.7, | 341.3, | 189.9, | -188.4, | -69.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -149.7, | -84.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.2, | -96.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -124.4, | -105.7, | 20  | 13.7, | 340.1, | 204.2, | -129.8, | -112.2, |
| 21  | 13.7, | 328.4, | 248.8, | -131.9, | -115.3, | 22  | 13.7, | 306.8, | 285.7, | -130.0, | -115.0, |
| 23  | 13.7, | 275.8, | 314.0, | -124.1, | -111.1, | 24  | 13.7, | 236.4, | 332.7, | -114.5, | -103.8, |
| 25  | 13.7, | 189.9, | 341.3, | -101.4, | -93.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -65.0,  | -47.3,  |
| 29  | 13.7, | 204.2, | 340.1, | -57.8,  | -27.7,  | 30  | 13.7, | 248.8, | 328.4, | -48.9,  | -7.5,   |
| 31  | 13.7, | 285.7, | 306.8, | -38.4,  | 12.9,   | 32  | 13.7, | 314.0, | 275.8, | -26.8,  | 32.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -14.4,  | 51.8,   | 34  | 13.7, | 341.3, | 189.9, | -1.5,   | 69.2,   |
| 35  | 13.7, | 339.6, | 138.4, | 11.4,   | 84.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.8,   | 96.6,   |

SOURCE ID: TTP72

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -30.2,  | 108.6, | 2   | 13.7, | 340.1, | 204.2, | -75.3,  | 115.0, |
| 3   | 13.7, | 328.4, | 248.8, | -118.2, | 117.9, | 4   | 13.7, | 306.8, | 285.7, | -157.5, | 117.3, |
| 5   | 13.7, | 275.8, | 314.0, | -192.0, | 113.0, | 6   | 13.7, | 236.4, | 332.7, | -220.7, | 105.4, |
| 7   | 13.7, | 189.9, | 341.3, | -242.6, | 94.5,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -279.3, | 46.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -285.0, | 26.8,  | 12  | 13.7, | 248.8, | 328.4, | -282.1, | 6.2,   |
| 13  | 13.7, | 285.7, | 306.8, | -270.6, | -14.7, | 14  | 13.7, | 314.0, | 275.8, | -250.9, | -35.0, |
| 15  | 13.7, | 332.7, | 236.4, | -223.6, | -54.3, | 16  | 13.7, | 341.3, | 189.9, | -189.5, | -72.0, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 17 | 13.7, | 339.6, | 138.4, | -150.4, | -87.4,  | 18 | 13.7, | 333.6, | 101.5, | -117.3, | -99.5,  |
| 19 | 13.7, | 341.4, | 154.2, | -124.0, | -108.6, | 20 | 13.7, | 340.1, | 204.2, | -128.9, | -115.0, |
| 21 | 13.7, | 328.4, | 248.8, | -130.5, | -117.9, | 22 | 13.7, | 306.8, | 285.7, | -128.2, | -117.3, |
| 23 | 13.7, | 275.8, | 314.0, | -122.0, | -113.0, | 24 | 13.7, | 236.4, | 332.7, | -112.0, | -105.4, |
| 25 | 13.7, | 189.9, | 341.3, | -98.7,  | -94.5,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -62.1,  | -46.9,  |
| 29 | 13.7, | 204.2, | 340.1, | -55.0,  | -26.8,  | 30 | 13.7, | 248.8, | 328.4, | -46.3,  | -6.2,   |
| 31 | 13.7, | 285.7, | 306.8, | -36.1,  | 14.7,   | 32 | 13.7, | 314.0, | 275.8, | -24.8,  | 35.0,   |
| 33 | 13.7, | 332.7, | 236.4, | -12.8,  | 54.3,   | 34 | 13.7, | 341.3, | 189.9, | -0.4,   | 72.0,   |
| 35 | 13.7, | 339.6, | 138.4, | 12.0,   | 87.4,   | 36 | 13.7, | 333.6, | 101.5, | 15.9,   | 99.5,   |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP73

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -30.9,  | 111.7,  | 2   | 13.7, | 340.1, | 204.2, | -76.5,  | 117.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -119.9, | 120.6,  | 4   | 13.7, | 306.8, | 285.7, | -159.6, | 119.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -194.5, | 115.0,  | 6   | 13.7, | 236.4, | 332.7, | -223.5, | 106.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -245.6, | 95.5,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -282.4, | 46.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -288.0, | 25.6,   | 12  | 13.7, | 248.8, | 328.4, | -284.8, | 4.5,    |
| 13  | 13.7, | 285.7, | 306.8, | -273.0, | -16.8,  | 14  | 13.7, | 314.0, | 275.8, | -252.9, | -37.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -225.1, | -57.1,  | 16  | 13.7, | 341.3, | 189.9, | -190.4, | -75.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -150.8, | -90.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.2, | -102.6, |
| 19  | 13.7, | 341.4, | 154.2, | -123.3, | -111.7, | 20  | 13.7, | 340.1, | 204.2, | -127.7, | -117.9, |
| 21  | 13.7, | 328.4, | 248.8, | -128.9, | -120.6, | 22  | 13.7, | 306.8, | 285.7, | -126.1, | -119.6, |
| 23  | 13.7, | 275.8, | 314.0, | -119.5, | -115.0, | 24  | 13.7, | 236.4, | 332.7, | -109.2, | -106.9, |
| 25  | 13.7, | 189.9, | 341.3, | -95.7,  | -95.5,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -59.0,  | -46.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -52.1,  | -25.6,  | 30  | 13.7, | 248.8, | 328.4, | -43.6,  | -4.5,   |
| 31  | 13.7, | 285.7, | 306.8, | -33.8,  | 16.8,   | 32  | 13.7, | 314.0, | 275.8, | -22.9,  | 37.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -11.4,  | 57.1,   | 34  | 13.7, | 341.3, | 189.9, | 0.6,    | 75.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 12.4,   | 90.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.8,   | 102.6,  |

SOURCE ID: TTP74

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -31.5,  | 114.5,  | 2   | 13.7, | 340.1, | 204.2, | -77.7,  | 120.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -121.5, | 123.1,  | 4   | 13.7, | 306.8, | 285.7, | -161.6, | 121.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -196.8, | 116.8,  | 6   | 13.7, | 236.4, | 332.7, | -226.1, | 108.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -248.4, | 96.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -285.2, | 45.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -290.7, | 24.5,   | 12  | 13.7, | 248.8, | 328.4, | -287.3, | 2.9,    |
| 13  | 13.7, | 285.7, | 306.8, | -275.2, | -18.8,  | 14  | 13.7, | 314.0, | 275.8, | -254.7, | -39.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -226.4, | -59.7,  | 16  | 13.7, | 341.3, | 189.9, | -191.3, | -77.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -151.2, | -93.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.1, | -105.6, |
| 19  | 13.7, | 341.4, | 154.2, | -122.7, | -114.5, | 20  | 13.7, | 340.1, | 204.2, | -126.6, | -120.6, |
| 21  | 13.7, | 328.4, | 248.8, | -127.3, | -123.1, | 22  | 13.7, | 306.8, | 285.7, | -124.1, | -121.8, |
| 23  | 13.7, | 275.8, | 314.0, | -117.2, | -116.8, | 24  | 13.7, | 236.4, | 332.7, | -106.6, | -108.2, |
| 25  | 13.7, | 189.9, | 341.3, | -92.9,  | -96.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -56.2,  | -45.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -49.4,  | -24.5,  | 30  | 13.7, | 248.8, | 328.4, | -41.1,  | -2.9,   |
| 31  | 13.7, | 285.7, | 306.8, | -31.6,  | 18.8,   | 32  | 13.7, | 314.0, | 275.8, | -21.1,  | 39.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -10.0,  | 59.7,   | 34  | 13.7, | 341.3, | 189.9, | 1.4,    | 77.8,   |
| 35  | 13.7, | 339.6, | 138.4, | 12.8,   | 93.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.7,   | 105.6,  |

SOURCE ID: TTP75

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -32.0,  | 117.5,  | 2   | 13.7, | 340.1, | 204.2, | -78.7,  | 123.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -123.0, | 125.7,  | 4   | 13.7, | 306.8, | 285.7, | -163.6, | 124.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -199.1, | 118.7,  | 6   | 13.7, | 236.4, | 332.7, | -228.7, | 109.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -251.3, | 97.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -288.2, | 45.1,   |
| 11  | 13.7, | 204.2, | 340.1, | -293.5, | 23.4,   | 12  | 13.7, | 248.8, | 328.4, | -289.9, | 1.4,    |
| 13  | 13.7, | 285.7, | 306.8, | -277.5, | -20.7,  | 14  | 13.7, | 314.0, | 275.8, | -256.6, | -42.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -228.0, | -62.3,  | 16  | 13.7, | 341.3, | 189.9, | -192.4, | -80.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -151.7, | -96.4,  | 18  | 13.7, | 333.6, | 101.5, | -117.1, | -108.6, |
| 19  | 13.7, | 341.4, | 154.2, | -122.1, | -117.5, | 20  | 13.7, | 340.1, | 204.2, | -125.5, | -123.5, |
| 21  | 13.7, | 328.4, | 248.8, | -125.8, | -125.7, | 22  | 13.7, | 306.8, | 285.7, | -122.1, | -124.1, |
| 23  | 13.7, | 275.8, | 314.0, | -114.8, | -118.7, | 24  | 13.7, | 236.4, | 332.7, | -104.0, | -109.7, |
| 25  | 13.7, | 189.9, | 341.3, | -90.0,  | -97.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -53.2,  | -45.1,  |
| 29  | 13.7, | 204.2, | 340.1, | -46.5,  | -23.4,  | 30  | 13.7, | 248.8, | 328.4, | -38.5,  | -1.4,   |
| 31  | 13.7, | 285.7, | 306.8, | -29.3,  | 20.7,   | 32  | 13.7, | 314.0, | 275.8, | -19.2,  | 42.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -8.5,   | 62.3,   | 34  | 13.7, | 341.3, | 189.9, | 2.5,    | 80.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 13.4,   | 96.4,   | 36  | 13.7, | 333.6, | 101.5, | 15.7,   | 108.6,  |

SOURCE ID: TTP76

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -32.8,  | 120.6,  | 2   | 13.7, | 340.1, | 204.2, | -80.0,  | 126.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -124.8, | 128.3,  | 4   | 13.7, | 306.8, | 285.7, | -165.8, | 126.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -201.7, | 120.6,  | 6   | 13.7, | 236.4, | 332.7, | -231.5, | 111.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -254.3, | 98.3,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -291.3, | 44.3,   |
| 11  | 13.7, | 204.2, | 340.1, | -296.4, | 22.1,   | 12  | 13.7, | 248.8, | 328.4, | -292.5, | -0.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -279.8, | -22.9,  | 14  | 13.7, | 314.0, | 275.8, | -258.5, | -44.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -229.3, | -65.2,  | 16  | 13.7, | 341.3, | 189.9, | -193.2, | -83.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -152.0, | -99.6,  | 18  | 13.7, | 333.6, | 101.5, | -116.9, | -111.8, |
| 19  | 13.7, | 341.4, | 154.2, | -121.4, | -120.6, | 20  | 13.7, | 340.1, | 204.2, | -124.2, | -126.4, |
| 21  | 13.7, | 328.4, | 248.8, | -124.0, | -128.3, | 22  | 13.7, | 306.8, | 285.7, | -119.9, | -126.4, |
| 23  | 13.7, | 275.8, | 314.0, | -112.2, | -120.6, | 24  | 13.7, | 236.4, | 332.7, | -101.1, | -111.1, |
| 25  | 13.7, | 189.9, | 341.3, | -87.0,  | -98.3,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -50.1,  | -44.3,  |
| 29  | 13.7, | 204.2, | 340.1, | -43.6,  | -22.1,  | 30  | 13.7, | 248.8, | 328.4, | -35.9,  | 0.4,    |
| 31  | 13.7, | 285.7, | 306.8, | -27.0,  | 22.9,   | 32  | 13.7, | 314.0, | 275.8, | -17.3,  | 44.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -7.1,   | 65.2,   | 34  | 13.7, | 341.3, | 189.9, | 3.3,    | 83.7,   |
| 35  | 13.7, | 339.6, | 138.4, | 13.7,   | 99.6,   | 36  | 13.7, | 333.6, | 101.5, | 15.4,   | 111.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 84

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP77

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -33.4,  | 123.6,  | 2   | 13.7, | 340.1, | 204.2, | -81.2,  | 129.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -126.4, | 130.9,  | 4   | 13.7, | 306.8, | 285.7, | -167.8, | 128.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -204.1, | 122.4,  | 6   | 13.7, | 236.4, | 332.7, | -234.2, | 112.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -257.2, | 99.2,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -294.3, | 43.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -299.2, | 21.0,   | 12  | 13.7, | 248.8, | 328.4, | -295.1, | -2.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -282.0, | -25.0,  | 14  | 13.7, | 314.0, | 275.8, | -260.3, | -47.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -230.7, | -67.9,  | 16  | 13.7, | 341.3, | 189.9, | -194.2, | -86.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -152.4, | -102.6, | 18  | 13.7, | 333.6, | 101.5, | -116.7, | -114.8, |
| 19  | 13.7, | 341.4, | 154.2, | -120.7, | -123.6, | 20  | 13.7, | 340.1, | 204.2, | -123.1, | -129.2, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 21 | 13.7, | 328.4, | 248.8, | -122.3, | -130.9, | 22 | 13.7, | 306.8, | 285.7, | -117.9, | -128.6, |
| 23 | 13.7, | 275.8, | 314.0, | -109.8, | -122.4, | 24 | 13.7, | 236.4, | 332.7, | -98.5,  | -112.5, |
| 25 | 13.7, | 189.9, | 341.3, | -84.1,  | -99.2,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -47.1,  | -43.6,  |
| 29 | 13.7, | 204.2, | 340.1, | -40.8,  | -21.0,  | 30 | 13.7, | 248.8, | 328.4, | -33.3,  | 2.0,    |
| 31 | 13.7, | 285.7, | 306.8, | -24.7,  | 25.0,   | 32 | 13.7, | 314.0, | 275.8, | -15.5,  | 47.1,   |
| 33 | 13.7, | 332.7, | 236.4, | -5.7,   | 67.9,   | 34 | 13.7, | 341.3, | 189.9, | 4.2,    | 86.6,   |
| 35 | 13.7, | 339.6, | 138.4, | 14.1,   | 102.6,  | 36 | 13.7, | 333.6, | 101.5, | 15.3,   | 114.8,  |

SOURCE ID: TTP78

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -33.8,  | 126.5,  | 2   | 13.7, | 340.1, | 204.2, | -82.0,  | 132.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -127.8, | 133.5,  | 4   | 13.7, | 306.8, | 285.7, | -169.6, | 131.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -206.3, | 124.4,  | 6   | 13.7, | 236.4, | 332.7, | -236.7, | 114.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -259.9, | 100.3,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -297.2, | 43.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -302.0, | 20.1,   | 12  | 13.7, | 248.8, | 328.4, | -297.7, | -3.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -284.3, | -26.8,  | 14  | 13.7, | 314.0, | 275.8, | -262.3, | -49.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -232.3, | -70.4,  | 16  | 13.7, | 341.3, | 189.9, | -195.3, | -89.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.1, | -105.5, | 18  | 13.7, | 333.6, | 101.5, | -116.9, | -117.8, |
| 19  | 13.7, | 341.4, | 154.2, | -120.3, | -126.5, | 20  | 13.7, | 340.1, | 204.2, | -122.2, | -132.0, |
| 21  | 13.7, | 328.4, | 248.8, | -121.0, | -133.5, | 22  | 13.7, | 306.8, | 285.7, | -116.1, | -131.0, |
| 23  | 13.7, | 275.8, | 314.0, | -107.7, | -124.4, | 24  | 13.7, | 236.4, | 332.7, | -96.0,  | -114.1, |
| 25  | 13.7, | 189.9, | 341.3, | -81.4,  | -100.3, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -44.2,  | -43.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -38.0,  | -20.1,  | 30  | 13.7, | 248.8, | 328.4, | -30.7,  | 3.4,    |
| 31  | 13.7, | 285.7, | 306.8, | -22.4,  | 26.8,   | 32  | 13.7, | 314.0, | 275.8, | -13.5,  | 49.3,   |
| 33  | 13.7, | 332.7, | 236.4, | -4.1,   | 70.4,   | 34  | 13.7, | 341.3, | 189.9, | 5.4,    | 89.3,   |
| 35  | 13.7, | 339.6, | 138.4, | 14.7,   | 105.5,  | 36  | 13.7, | 333.6, | 101.5, | 15.4,   | 117.8,  |

SOURCE ID: TTP79

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -34.4,  | 129.2,  | 2   | 13.7, | 340.1, | 204.2, | -83.1,  | 134.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -129.3, | 135.9,  | 4   | 13.7, | 306.8, | 285.7, | -171.5, | 133.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -208.5, | 126.1,  | 6   | 13.7, | 236.4, | 332.7, | -239.2, | 115.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -262.6, | 101.2,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -299.9, | 42.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -304.6, | 19.0,   | 12  | 13.7, | 248.8, | 328.4, | -300.1, | -4.9,   |
| 13  | 13.7, | 285.7, | 306.8, | -286.4, | -28.7,  | 14  | 13.7, | 314.0, | 275.8, | -264.0, | -51.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -233.6, | -72.8,  | 16  | 13.7, | 341.3, | 189.9, | -196.1, | -92.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.4, | -108.3, | 18  | 13.7, | 333.6, | 101.5, | -116.7, | -120.5, |
| 19  | 13.7, | 341.4, | 154.2, | -119.7, | -129.2, | 20  | 13.7, | 340.1, | 204.2, | -121.1, | -134.6, |
| 21  | 13.7, | 328.4, | 248.8, | -119.5, | -135.9, | 22  | 13.7, | 306.8, | 285.7, | -114.2, | -133.0, |
| 23  | 13.7, | 275.8, | 314.0, | -105.5, | -126.1, | 24  | 13.7, | 236.4, | 332.7, | -93.5,  | -115.4, |
| 25  | 13.7, | 189.9, | 341.3, | -78.7,  | -101.2, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -41.5,  | -42.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -35.4,  | -19.0,  | 30  | 13.7, | 248.8, | 328.4, | -28.3,  | 4.9,    |
| 31  | 13.7, | 285.7, | 306.8, | -20.4,  | 28.7,   | 32  | 13.7, | 314.0, | 275.8, | -11.8,  | 51.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -2.8,   | 72.8,   | 34  | 13.7, | 341.3, | 189.9, | 6.2,    | 92.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 15.1,   | 108.3,  | 36  | 13.7, | 333.6, | 101.5, | 15.3,   | 120.5,  |

SOURCE ID: TTP80

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -35.1,  | 132.1,  | 2   | 13.7, | 340.1, | 204.2, | -84.2,  | 137.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -130.9, | 138.3,  | 4   | 13.7, | 306.8, | 285.7, | -173.5, | 135.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -210.8, | 127.9,  | 6   | 13.7, | 236.4, | 332.7, | -241.8, | 116.8,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -302.8, | 42.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -307.3, | 17.9,   | 12  | 13.7, | 248.8, | 328.4, | -302.5, | -6.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -288.6, | -30.6,  | 14  | 13.7, | 314.0, | 275.8, | -265.8, | -53.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -235.0, | -75.4,  | 16  | 13.7, | 341.3, | 189.9, | -197.0, | -94.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.8, | -111.2, | 18  | 13.7, | 333.6, | 101.5, | -116.6, | -123.5, |
| 19  | 13.7, | 341.4, | 154.2, | -119.1, | -132.1, | 20  | 13.7, | 340.1, | 204.2, | -120.0, | -137.3, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 21 | 13.7, | 328.4, | 248.8, | -117.9, | -138.3, | 22 | 13.7, | 306.8, | 285.7, | -112.2, | -135.2, |
| 23 | 13.7, | 275.8, | 314.0, | -103.1, | -127.9, | 24 | 13.7, | 236.4, | 332.7, | -90.9,  | -116.8, |
| 25 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -38.6,  | -42.0,  |
| 29 | 13.7, | 204.2, | 340.1, | -32.7,  | -17.9,  | 30 | 13.7, | 248.8, | 328.4, | -25.9,  | 6.5,    |
| 31 | 13.7, | 285.7, | 306.8, | -18.2,  | 30.6,   | 32 | 13.7, | 314.0, | 275.8, | -10.0,  | 53.8,   |
| 33 | 13.7, | 332.7, | 236.4, | -1.5,   | 75.4,   | 34 | 13.7, | 341.3, | 189.9, | 7.1,    | 94.7,   |
| 35 | 13.7, | 339.6, | 138.4, | 15.4,   | 111.2,  | 36 | 13.7, | 333.6, | 101.5, | 15.2,   | 123.5,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 09:17:47

PAGE 85

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP81

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -35.6,  | 135.1,  | 2   | 13.7, | 340.1, | 204.2, | -85.3,  | 140.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -132.4, | 141.0,  | 4   | 13.7, | 306.8, | 285.7, | -175.4, | 137.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -213.2, | 129.9,  | 6   | 13.7, | 236.4, | 332.7, | -244.4, | 118.3,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -305.8, | 41.5,   |
| 11  | 13.7, | 204.2, | 340.1, | -310.2, | 16.9,   | 12  | 13.7, | 248.8, | 328.4, | -305.2, | -8.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -290.9, | -32.6,  | 14  | 13.7, | 314.0, | 275.8, | -267.8, | -56.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -236.5, | -78.1,  | 16  | 13.7, | 341.3, | 189.9, | -198.0, | -97.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -154.3, | -114.2, | 18  | 13.7, | 333.6, | 101.5, | -116.6, | -126.5, |
| 19  | 13.7, | 341.4, | 154.2, | -118.5, | -135.1, | 20  | 13.7, | 340.1, | 204.2, | -119.0, | -140.2, |
| 21  | 13.7, | 328.4, | 248.8, | -116.4, | -141.0, | 22  | 13.7, | 306.8, | 285.7, | -110.3, | -137.5, |
| 23  | 13.7, | 275.8, | 314.0, | -100.8, | -129.9, | 24  | 13.7, | 236.4, | 332.7, | -88.3,  | -118.3, |
| 25  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -35.6,  | -41.5,  |
| 29  | 13.7, | 204.2, | 340.1, | -29.9,  | -16.9,  | 30  | 13.7, | 248.8, | 328.4, | -23.2,  | 8.0,    |
| 31  | 13.7, | 285.7, | 306.8, | -15.9,  | 32.6,   | 32  | 13.7, | 314.0, | 275.8, | -8.0,   | 56.2,   |
| 33  | 13.7, | 332.7, | 236.4, | 0.1,    | 78.1,   | 34  | 13.7, | 341.3, | 189.9, | 8.1,    | 97.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 16.0,   | 114.2,  | 36  | 13.7, | 333.6, | 101.5, | 15.2,   | 126.5,  |

SOURCE ID: TTP82

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -36.4,  | 138.2,  | 2   | 13.7, | 340.1, | 204.2, | -86.6,  | 143.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -134.2, | 143.6,  | 4   | 13.7, | 306.8, | 285.7, | -177.7, | 139.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -215.8, | 131.7,  | 6   | 13.7, | 236.4, | 332.7, | -247.3, | 119.6,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -308.9, | 40.7,   |
| 11  | 13.7, | 204.2, | 340.1, | -313.1, | 15.5,   | 12  | 13.7, | 248.8, | 328.4, | -307.8, | -9.8,   |
| 13  | 13.7, | 285.7, | 306.8, | -293.2, | -34.8,  | 14  | 13.7, | 314.0, | 275.8, | -269.6, | -58.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -237.9, | -80.9,  | 16  | 13.7, | 341.3, | 189.9, | -198.9, | -100.7, |
| 17  | 13.7, | 339.6, | 138.4, | -154.6, | -117.3, | 18  | 13.7, | 333.6, | 101.5, | -116.4, | -129.7, |
| 19  | 13.7, | 341.4, | 154.2, | -117.8, | -138.2, | 20  | 13.7, | 340.1, | 204.2, | -117.7, | -143.1, |
| 21  | 13.7, | 328.4, | 248.8, | -114.6, | -143.6, | 22  | 13.7, | 306.8, | 285.7, | -108.0, | -139.8, |
| 23  | 13.7, | 275.8, | 314.0, | -98.2,  | -131.7, | 24  | 13.7, | 236.4, | 332.7, | -85.4,  | -119.6, |
| 25  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -32.5,  | -40.7,  |
| 29  | 13.7, | 204.2, | 340.1, | -27.0,  | -15.5,  | 30  | 13.7, | 248.8, | 328.4, | -20.6,  | 9.8,    |
| 31  | 13.7, | 285.7, | 306.8, | -13.6,  | 34.8,   | 32  | 13.7, | 314.0, | 275.8, | -6.2,   | 58.8,   |
| 33  | 13.7, | 332.7, | 236.4, | 1.4,    | 80.9,   | 34  | 13.7, | 341.3, | 189.9, | 9.0,    | 100.7,  |
| 35  | 13.7, | 339.6, | 138.4, | 16.3,   | 117.3,  | 36  | 13.7, | 333.6, | 101.5, | 14.9,   | 129.7,  |

SOURCE ID: TTP83

| IFV | BH | BW | BL | XADJ | YADJ | IFV | BH | BW | BL | XADJ | YADJ |
|-----|----|----|----|------|------|-----|----|----|----|------|------|
|-----|----|----|----|------|------|-----|----|----|----|------|------|

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 1  | 13.7, | 341.4, | 154.2, | -37.0,  | 141.1,  | 2  | 13.7, | 340.1, | 204.2, | -87.7,  | 145.9,  |
| 3  | 13.7, | 328.4, | 248.8, | -135.8, | 146.2,  | 4  | 13.7, | 306.8, | 285.7, | -179.7, | 142.0,  |
| 5  | 13.7, | 275.8, | 314.0, | -218.2, | 133.6,  | 6  | 13.7, | 236.4, | 332.7, | -250.0, | 121.1,  |
| 7  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10 | 13.7, | 154.2, | 341.4, | -311.8, | 40.0,   |
| 11 | 13.7, | 204.2, | 340.1, | -315.9, | 14.4,   | 12 | 13.7, | 248.8, | 328.4, | -310.4, | -11.4,  |
| 13 | 13.7, | 285.7, | 306.8, | -295.4, | -36.8,  | 14 | 13.7, | 314.0, | 275.8, | -271.5, | -61.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -239.3, | -83.6,  | 16 | 13.7, | 341.3, | 189.9, | -199.8, | -103.6, |
| 17 | 13.7, | 339.6, | 138.4, | -155.1, | -120.3, | 18 | 13.7, | 333.6, | 101.5, | -116.2, | -132.7, |
| 19 | 13.7, | 341.4, | 154.2, | -117.1, | -141.1, | 20 | 13.7, | 340.1, | 204.2, | -116.5, | -145.9, |
| 21 | 13.7, | 328.4, | 248.8, | -113.0, | -146.2, | 22 | 13.7, | 306.8, | 285.7, | -106.0, | -142.0, |
| 23 | 13.7, | 275.8, | 314.0, | -95.8,  | -133.6, | 24 | 13.7, | 236.4, | 332.7, | -82.7,  | -121.1, |
| 25 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -29.6,  | -40.0,  |
| 29 | 13.7, | 204.2, | 340.1, | -24.2,  | -14.4,  | 30 | 13.7, | 248.8, | 328.4, | -18.0,  | 11.4,   |
| 31 | 13.7, | 285.7, | 306.8, | -11.3,  | 36.8,   | 32 | 13.7, | 314.0, | 275.8, | -4.3,   | 61.2,   |
| 33 | 13.7, | 332.7, | 236.4, | 2.8,    | 83.6,   | 34 | 13.7, | 341.3, | 189.9, | 9.9,    | 103.6,  |
| 35 | 13.7, | 339.6, | 138.4, | 16.7,   | 120.3,  | 36 | 13.7, | 333.6, | 101.5, | 14.8,   | 132.7,  |

SOURCE ID: STCK1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -118.5, | 158.8,  | 2   | 13.7, | 340.1, | 204.2, | -171.0, | 149.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -218.4, | 134.9,  | 4   | 13.7, | 306.8, | 285.7, | -259.1, | 116.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -291.9, | 94.7,   | 6   | 13.7, | 236.4, | 332.7, | -315.9, | 70.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -330.2, | 43.1,   | 8   | 13.7, | 138.4, | 339.6, | -334.5, | 15.3,   |
| 9   | 13.7, | 101.5, | 333.6, | -331.0, | -11.7,  | 10  | 13.7, | 154.2, | 341.4, | -329.5, | -41.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -319.1, | -68.9,  | 12  | 13.7, | 248.8, | 328.4, | -299.1, | -94.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -269.9, | -116.2, | 14  | 13.7, | 314.0, | 275.8, | -232.6, | -134.9, |
| 15  | 13.7, | 332.7, | 236.4, | -188.2, | -149.5, | 16  | 13.7, | 341.3, | 189.9, | -138.1, | -159.6, |
| 17  | 13.7, | 339.6, | 138.4, | -84.5,  | -164.8, | 18  | 13.7, | 333.6, | 101.5, | -39.1,  | -164.2, |
| 19  | 13.7, | 341.4, | 154.2, | -35.6,  | -158.8, | 20  | 13.7, | 340.1, | 204.2, | -33.2,  | -149.1, |
| 21  | 13.7, | 328.4, | 248.8, | -30.4,  | -134.9, | 22  | 13.7, | 306.8, | 285.7, | -26.6,  | -116.6, |
| 23  | 13.7, | 275.8, | 314.0, | -22.1,  | -94.7,  | 24  | 13.7, | 236.4, | 332.7, | -16.9,  | -70.0,  |
| 25  | 13.7, | 189.9, | 341.3, | -11.1,  | -43.1,  | 26  | 13.7, | 138.4, | 339.6, | -5.0,   | -15.3,  |
| 27  | 13.7, | 101.5, | 333.6, | -2.6,   | 11.7,   | 28  | 13.7, | 154.2, | 341.4, | -11.9,  | 41.4,   |
| 29  | 13.7, | 204.2, | 340.1, | -21.0,  | 68.9,   | 30  | 13.7, | 248.8, | 328.4, | -29.3,  | 94.0,   |
| 31  | 13.7, | 285.7, | 306.8, | -36.8,  | 116.2,  | 32  | 13.7, | 314.0, | 275.8, | -43.2,  | 134.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -48.2,  | 149.5,  | 34  | 13.7, | 341.3, | 189.9, | -51.8,  | 159.6,  |
| 35  | 13.7, | 339.6, | 138.4, | -53.8,  | 164.8,  | 36  | 13.7, | 333.6, | 101.5, | -62.4,  | 164.2,  |

```

FF *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***
***
09:17:47

```

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK2

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -108.6, | 160.9,  | 2   | 13.7, | 340.1, | 204.2, | -161.6, | 152.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -209.8, | 140.3,  | 4   | 13.7, | 306.8, | 285.7, | -251.6, | 123.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -285.7, | 102.7,  | 6   | 13.7, | 236.4, | 332.7, | -311.1, | 79.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -327.1, | 52.8,   | 8   | 13.7, | 138.4, | 339.6, | -333.2, | 25.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -331.4, | -1.5,   | 10  | 13.7, | 154.2, | 341.4, | -331.6, | -31.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -323.0, | -59.5,  | 12  | 13.7, | 248.8, | 328.4, | -304.5, | -85.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -276.8, | -108.7, | 14  | 13.7, | 314.0, | 275.8, | -240.6, | -128.7, |
| 15  | 13.7, | 332.7, | 236.4, | -197.2, | -144.8, | 16  | 13.7, | 341.3, | 189.9, | -147.7, | -156.5, |
| 17  | 13.7, | 339.6, | 138.4, | -94.6,  | -163.4, | 18  | 13.7, | 333.6, | 101.5, | -49.2,  | -164.6, |
| 19  | 13.7, | 341.4, | 154.2, | -45.6,  | -160.9, | 20  | 13.7, | 340.1, | 204.2, | -42.6,  | -152.9, |
| 21  | 13.7, | 328.4, | 248.8, | -39.0,  | -140.3, | 22  | 13.7, | 306.8, | 285.7, | -34.1,  | -123.4, |
| 23  | 13.7, | 275.8, | 314.0, | -28.3,  | -102.7, | 24  | 13.7, | 236.4, | 332.7, | -21.6,  | -79.0,  |

|    |       |        |        |        |        |    |       |        |        |        |        |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|
| 25 | 13.7, | 189.9, | 341.3, | -14.2, | -52.8, | 26 | 13.7, | 138.4, | 339.6, | -6.4,  | -25.4, |
| 27 | 13.7, | 101.5, | 333.6, | -2.2,  | 1.5,   | 28 | 13.7, | 154.2, | 341.4, | -9.8,  | 31.5,  |
| 29 | 13.7, | 204.2, | 340.1, | -17.1, | 59.5,  | 30 | 13.7, | 248.8, | 328.4, | -23.9, | 85.4,  |
| 31 | 13.7, | 285.7, | 306.8, | -30.0, | 108.7, | 32 | 13.7, | 314.0, | 275.8, | -35.1, | 128.7, |
| 33 | 13.7, | 332.7, | 236.4, | -39.2, | 144.8, | 34 | 13.7, | 341.3, | 189.9, | -42.1, | 156.5, |
| 35 | 13.7, | 339.6, | 138.4, | -43.8, | 163.4, | 36 | 13.7, | 333.6, | 101.5, | -52.2, | 164.6, |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 09:17:47

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW7) \*

SOURCE ID = STCK1 ; SOURCE TYPE = POINT :

| HOURL                  | SCALAR    | HOURL     | SCALAR    | HOURL     | SCALAR    | HOURL  | SCALAR    | HOURL  | SCALAR    | HOURL  |
|------------------------|-----------|-----------|-----------|-----------|-----------|--------|-----------|--------|-----------|--------|
| SCALAR                 | HOURL     | SCALAR    | HOURL     | SCALAR    | HOURL     | SCALAR | HOURL     | SCALAR | HOURL     | SCALAR |
| DAY OF WEEK = MONDAY   |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = TUESDAY  |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .1000E+01 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = WEDNESDY |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = THURSDAY |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = FRIDAY   |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = SATURDAY |           |           |           |           |           |        |           |        |           |        |
| 1                      | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |
| .0000E+00              | 7         | .0000E+00 | 8         | .0000E+00 |           |        |           |        |           |        |
| 9                      | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |
| .0000E+00              | 15        | .0000E+00 | 16        | .0000E+00 |           |        |           |        |           |        |
| 17                     | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |
| .0000E+00              | 23        | .0000E+00 | 24        | .0000E+00 |           |        |           |        |           |        |
| DAY OF WEEK = SUNDAY   |           |           |           |           |           |        |           |        |           |        |



```
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
*** 09:17:47
```

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW7) \*

```
SOURCE ID = STCK2 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = FRIDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
```

```

.0000E+00      7 .0000E+00      8 .0000E+00
9 .0000E+00    10 .0000E+00    11 .0000E+00    12 .0000E+00    13 .0000E+00    14
.0000E+00    15 .0000E+00    16 .0000E+00
17 .0000E+00    18 .0000E+00    19 .0000E+00    20 .0000E+00    21 .0000E+00    22
.0000E+00    23 .0000E+00    24 .0000E+00
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***
09:17:47

```

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

```

( 658334.4, 4184219.3,      12.7,      12.7,      0.0);      ( 658333.0,
4184239.1,      12.8,      12.8,      0.0);
( 658332.8, 4184256.8,      12.8,      12.8,      0.0);      ( 658331.1,
4184275.4,      12.8,      12.8,      0.0);
( 658330.6, 4184293.6,      12.8,      12.8,      0.0);      ( 658330.1,
4184311.5,      12.9,      12.9,      0.0);
( 658329.1, 4184328.9,      13.0,      13.0,      0.0);      ( 658328.8,
4184346.9,      13.0,      13.0,      0.0);
( 658327.3, 4184364.9,      13.0,      13.0,      0.0);      ( 658326.6,
4184384.6,      13.1,      13.1,      0.0);
( 658325.7, 4184400.5,      13.1,      13.1,      0.0);      ( 658351.9,
4184356.4,      13.2,      13.2,      0.0);
( 658411.4, 4184331.2,      13.1,      13.1,      0.0);      ( 658460.9,
4184332.6,      13.1,      13.1,      0.0);
( 658489.4, 4184334.4,      13.0,      13.0,      0.0);      ( 658538.9,
4184336.4,      13.1,      13.1,      0.0);
( 658634.0, 4184363.1,      13.2,      13.2,      0.0);      ( 658575.2,
4184376.2,      13.0,      13.0,      0.0);
( 658792.3, 4184311.5,      13.5,      13.5,      0.0);      ( 658328.2,
4184428.2,      13.1,      13.1,      0.0);
( 658324.6, 4184463.8,      12.7,      12.7,      0.0);      ( 658340.1,
4184463.9,      12.7,      12.7,      0.0);
( 658356.9, 4184464.5,      12.7,      12.7,      0.0);      ( 658372.2,
4184464.6,      12.6,      12.6,      0.0);
( 658385.9, 4184464.8,      12.6,      12.6,      0.0);      ( 658404.0,
4184465.2,      12.5,      12.5,      0.0);
( 658420.2, 4184465.1,      12.5,      12.5,      0.0);      ( 658435.7,
4184466.4,      12.5,      12.5,      0.0);
( 658336.3, 4184188.4,      12.6,      12.6,      0.0);      ( 658338.8,
4184167.0,      12.5,      12.5,      0.0);
( 658339.5, 4184149.7,      12.5,      12.5,      0.0);      ( 658338.6,
4184131.8,      12.4,      12.4,      0.0);
( 658339.6, 4184114.2,      12.3,      12.3,      0.0);      ( 658339.5,
4184096.9,      12.2,      12.2,      0.0);
( 658528.9, 4184142.7,      13.2,      13.2,      0.0);      ( 658610.0,
4184144.3,      13.4,      13.4,      0.0);
( 658681.5, 4184145.8,      13.3,      13.3,      0.0);      ( 658822.7,
4184110.0,      13.4,      13.4,      0.0);
( 658341.0, 4184077.3,      12.2,      12.2,      0.0);      ( 658342.2,
4184057.4,      12.3,      12.3,      0.0);
( 658342.5, 4184040.6,      12.3,      12.3,      0.0);      ( 658343.4,
4184024.3,      12.3,      12.3,      0.0);
( 658344.0, 4184004.7,      12.3,      12.3,      0.0);      ( 658345.0,
4183986.3,      12.2,      12.2,      0.0);
( 658345.5, 4183969.1,      12.2,      12.2,      0.0);      ( 658347.1,
4183948.8,      12.2,      12.2,      0.0);
( 658348.1, 4183931.8,      12.2,      12.2,      0.0);      ( 658348.7,
4183912.7,      12.2,      12.2,      0.0);
( 658349.4, 4183895.6,      12.2,      12.2,      0.0);      ( 658350.3,

```

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| 4183876.2,             | 12.2, | 12.2, | 0.0); |             |
| ( 658705.4, 4184490.6, | 13.1, | 13.1, | 0.0); | ( 658356.0, |
| 4183814.1,             | 11.8, | 11.8, | 0.0); |             |
| ( 658783.4, 4183908.0, | 12.8, | 12.8, | 0.0); | ( 658845.0, |
| 4184011.4,             | 12.6, | 12.6, | 0.0); |             |
| ( 657852.8, 4184359.5, | 12.2, | 12.2, | 0.0); | ( 658013.7, |
| 4184464.2,             | 12.4, | 12.4, | 0.0); |             |
| ( 658356.2, 4183852.6, | 12.1, | 12.1, | 0.0); | ( 658487.9, |
| 4183854.8,             | 12.0, | 12.0, | 0.0); |             |
| ( 658621.3, 4183854.8, | 13.0, | 13.0, | 0.0); | ( 659354.0, |
| 4184491.9,             | 14.4, | 14.4, | 0.0); |             |
| ( 658618.8, 4184754.2, | 12.6, | 12.6, | 0.0); | ( 658624.8, |
| 4184647.1,             | 12.6, | 12.6, | 0.0); |             |
| ( 658624.1, 4184601.0, | 12.4, | 12.4, | 0.0); | ( 658684.4, |
| 4184796.5,             | 13.1, | 13.1, | 0.0); |             |
| ( 658912.1, 4184704.8, | 13.4, | 13.4, | 0.0); | ( 659090.7, |
| 4184904.7,             | 13.2, | 13.2, | 0.0); |             |
| ( 658921.0, 4184927.9, | 13.2, | 13.2, | 0.0); | ( 658586.3, |
| 4184908.5,             | 12.9, | 12.9, | 0.0); |             |
| ( 658405.0, 4184892.0, | 12.0, | 12.0, | 0.0); | ( 658487.0, |
| 4184919.0,             | 12.2, | 12.2, | 0.0); |             |
| ( 658581.4, 4184983.0, | 12.6, | 12.6, | 0.0); | ( 658428.6, |
| 4184853.4,             | 12.2, | 12.2, | 0.0); |             |
| ( 658445.1, 4184517.5, | 12.3, | 12.3, | 0.0); | ( 658435.7, |
| 4184690.5,             | 12.4, | 12.4, | 0.0); |             |
| ( 659317.3, 4184800.8, | 14.0, | 19.4, | 0.0); | ( 659331.3, |
| 4184657.3,             | 14.8, | 14.8, | 0.0); |             |
| ( 658029.0, 4184541.7, | 12.3, | 12.3, | 0.0); | ( 657824.7, |
| 4184529.3,             | 12.1, | 12.1, | 0.0); |             |
| ( 658007.6, 4184688.0, | 12.1, | 12.1, | 0.0); | ( 657931.2, |
| 4184677.0,             | 12.2, | 12.2, | 0.0); |             |
| ( 658885.7, 4183203.9, | 13.5, | 13.5, | 0.0); | ( 658727.1, |
| 4183244.6,             | 15.8, | 23.0, | 0.0); |             |
| ( 658692.9, 4183227.8, | 13.9, | 23.0, | 0.0); | ( 658622.5, |
| 4183228.8,             | 14.1, | 22.3, | 0.0); |             |
| ( 658545.9, 4183228.4, | 13.6, | 21.5, | 0.0); | ( 658475.8, |
| 4183222.9,             | 12.9, | 20.7, | 0.0); |             |
| ( 658424.3, 4183214.8, | 12.6, | 12.6, | 0.0); | ( 658273.8, |
| 4183234.2,             | 12.9, | 12.9, | 0.0); |             |
| ( 658205.9, 4183233.7, | 12.7, | 12.7, | 0.0); | ( 658044.0, |
| 4183240.9,             | 12.5, | 12.5, | 0.0); |             |

```

FF *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***          09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

09:17:47

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 660186.6, 4184250.1, | 13.9, | 13.9, | 0.0); | ( 660213.2, |
| 4184424.9,             | 14.2, | 14.2, | 0.0); |             |
| ( 660287.3, 4184509.3, | 15.1, | 15.1, | 0.0); | ( 660215.9, |
| 4184164.6,             | 14.1, | 14.1, | 0.0); |             |
| ( 658605.1, 4184843.0, | 13.0, | 13.0, | 0.0); | ( 658612.5, |
| 4184909.5,             | 13.1, | 13.1, | 0.0); |             |
| ( 658656.9, 4184906.0, | 13.0, | 13.0, | 0.0); | ( 658485.8, |
| 4184891.5,             | 12.2, | 12.2, | 0.0); |             |
| ( 658609.5, 4185069.9, | 12.6, | 12.6, | 0.0); | ( 658618.1, |
| 4185023.1,             | 12.7, | 12.7, | 0.0); |             |
| ( 658608.3, 4185108.0, | 12.7, | 12.7, | 0.0); | ( 658527.2, |
| 4185095.9,             | 12.4, | 12.4, | 0.0); |             |
| ( 658631.9, 4185217.2, | 13.1, | 13.1, | 0.0); | ( 658636.0, |

```

*** AERMOD - VERSION 23132 ***
Spreckels\15639 Ops HRA\1 ***
*** AERMET - VERSION 21112 ***
***
***

```

```
* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED
*
* LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL
```

```

*** AERMOD - VERSION 23132 ***
Spreckels\15639 Ops HRA\1 ***
*** AERMET - VERSION 21112 ***
***
*** C:\Users\Michael Tirohn\Desktop\HRAs\15639
09/20/24
***

```

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES  
\*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

09:17:47

PAGE 93

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file:

modesto-city-23258\Modesto\_18-22.SFC

Met

Version: 21112

Profile file:

modesto-city-23258\Modesto\_18-22.PFL

Surface format:

FREE

Profile format:

FREE

Surface station no.: 23258

Upper air station no.: 23230

Name: UNKNOWN

Name:

OAKLAND/WSO\_AP

Year: 2018

Year: 2018

First 24 hours of scalar data

| YR   | MO | DY   | JDY | HR    | H0    | U*    | W*     | DT/DZ  | ZICNV | ZIMCH | M-O    | LEN  | Z0   | BOWEN | ALBEDO | REF | WS |
|------|----|------|-----|-------|-------|-------|--------|--------|-------|-------|--------|------|------|-------|--------|-----|----|
| WD   |    |      |     | HT    | REF   | TA    | HT     |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 01    | -9.5  | 0.126 | -9.000 | -9.000 | -999. | 107.  | 19.2   | 0.03 | 0.99 | 1.00  | 2.04   |     |    |
| 314. |    | 10.0 |     | 281.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 02    | -6.6  | 0.104 | -9.000 | -9.000 | -999. | 81.   | 15.7   | 0.03 | 0.99 | 1.00  | 1.71   |     |    |
| 321. |    | 10.0 |     | 281.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 03    | -9.9  | 0.131 | -9.000 | -9.000 | -999. | 114.  | 20.7   | 0.04 | 0.99 | 1.00  | 1.96   |     |    |
| 346. |    | 10.0 |     | 281.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 04    | -4.1  | 0.084 | -9.000 | -9.000 | -999. | 58.   | 13.1   | 0.04 | 0.99 | 1.00  | 1.26   |     |    |
| 331. |    | 10.0 |     | 280.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 05    | -1.9  | 0.061 | -9.000 | -9.000 | -999. | 36.   | 11.0   | 0.02 | 0.99 | 1.00  | 0.86   |     |    |
| 247. |    | 10.0 |     | 278.8 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 06    | -1.6  | 0.060 | -9.000 | -9.000 | -999. | 35.   | 12.1   | 0.02 | 0.99 | 1.00  | 0.74   |     |    |
| 217. |    | 10.0 |     | 278.8 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 07    | -1.4  | 0.058 | -9.000 | -9.000 | -999. | 34.   | 12.7   | 0.02 | 0.99 | 1.00  | 0.67   |     |    |
| 231. |    | 10.0 |     | 277.5 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 08    | -2.0  | 0.065 | -9.000 | -9.000 | -999. | 40.   | 12.7   | 0.05 | 0.99 | 0.71  | 0.79   |     |    |
| 198. |    | 10.0 |     | 276.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 09    | 0.1   | 0.081 | 0.021  | 0.007  | 3.    | 56.   | -420.9 | 0.02 | 0.99 | 0.38  | 1.21   |     |    |
| 106. |    | 10.0 |     | 279.9 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 10    | 47.5  | 0.079 | 0.580  | 0.006  | 149.  | 53.   | -1.0   | 0.02 | 0.99 | 0.27  | 0.75   |     |    |
| 139. |    | 10.0 |     | 283.1 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 11    | 83.4  | 0.135 | 1.018  | 0.015  | 461.  | 119.  | -2.7   | 0.04 | 0.99 | 0.23  | 1.23   |     |    |
| 353. |    | 10.0 |     | 286.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 12    | 103.1 | 0.228 | 1.163  | 0.017  | 556.  | 262.  | -10.5  | 0.04 | 0.99 | 0.21  | 2.50   |     |    |
| 333. |    | 10.0 |     | 288.1 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 13    | 105.8 | 0.161 | 1.231  | 0.019  | 641.  | 157.  | -3.6   | 0.03 | 0.99 | 0.21  | 1.70   |     |    |
| 322. |    | 10.0 |     | 289.9 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 14    | 91.4  | 0.148 | 1.217  | 0.019  | 715.  | 137.  | -3.2   | 0.03 | 0.99 | 0.22  | 1.54   |     |    |
| 324. |    | 10.0 |     | 291.4 | 2.0   |       |        |        |       |       |        |      |      |       |        |     |    |
| 18   | 01 | 01   | 1   | 15    | 60.0  | 0.135 | 1.065  | 0.019  | 731.  | 119.  | -3.7   | 0.02 | 0.99 | 0.26  | 1.62   |     |    |

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD |
|-------------|-------------|---------|-------------|---------|
| 658334.38   | 4184219.32  | 0.02204 | 658333.00   |         |
| 4184239.07  | 0.02981     |         |             |         |
| 658332.77   | 4184256.75  | 0.03670 | 658331.12   |         |
| 4184275.37  | 0.04298     |         |             |         |
| 658330.55   | 4184293.56  | 0.04640 | 658330.13   |         |
| 4184311.47  | 0.04694     |         |             |         |
| 658329.14   | 4184328.95  | 0.04610 | 658328.75   |         |
| 4184346.90  | 0.04113     |         |             |         |
| 658327.32   | 4184364.94  | 0.03267 | 658326.61   |         |
| 4184384.60  | 0.02596     |         |             |         |
| 658325.69   | 4184400.50  | 0.02353 | 658351.91   |         |
| 4184356.45  | 0.04030     |         |             |         |

|            |            |         |           |
|------------|------------|---------|-----------|
| 658411.42  | 4184331.21 | 0.04204 | 658460.92 |
| 4184332.62 | 0.04872    |         |           |
| 658489.41  | 4184334.45 | 0.05103 | 658538.91 |
| 4184336.42 | 0.04850    |         |           |
| 658633.98  | 4184363.12 | 0.01665 | 658575.23 |
| 4184376.20 | 0.02175    |         |           |
| 658792.31  | 4184311.46 | 0.01175 | 658328.23 |
| 4184428.16 | 0.01988    |         |           |
| 658324.56  | 4184463.84 | 0.01600 | 658340.07 |
| 4184463.88 | 0.01594    |         |           |
| 658356.85  | 4184464.48 | 0.01582 | 658372.20 |
| 4184464.60 | 0.01578    |         |           |
| 658385.86  | 4184464.84 | 0.01580 | 658403.96 |
| 4184465.20 | 0.01593    |         |           |
| 658420.15  | 4184465.08 | 0.01624 | 658435.73 |
| 4184466.40 | 0.01623    |         |           |
| 658336.30  | 4184188.36 | 0.01378 | 658338.79 |
| 4184166.96 | 0.01203    |         |           |
| 658339.45  | 4184149.70 | 0.01038 | 658338.62 |
| 4184131.78 | 0.00864    |         |           |
| 658339.62  | 4184114.19 | 0.00802 | 658339.45 |
| 4184096.93 | 0.00764    |         |           |
| 658528.90  | 4184142.67 | 0.08320 | 658609.95 |
| 4184144.35 | 0.10638    |         |           |
| 658681.53  | 4184145.79 | 0.08781 | 658822.70 |
| 4184109.99 | 0.02106    |         |           |
| 658341.04  | 4184077.32 | 0.00738 | 658342.17 |
| 4184057.42 | 0.00716    |         |           |
| 658342.45  | 4184040.64 | 0.00700 | 658343.44 |
| 4184024.27 | 0.00689    |         |           |
| 658344.00  | 4184004.66 | 0.00673 | 658345.03 |
| 4183986.32 | 0.00662    |         |           |
| 658345.54  | 4183969.09 | 0.00649 | 658347.07 |
| 4183948.81 | 0.00640    |         |           |
| 658348.08  | 4183931.79 | 0.00631 | 658348.70 |
| 4183912.73 | 0.00620    |         |           |
| 658349.41  | 4183895.60 | 0.00611 | 658350.33 |
| 4183876.24 | 0.00602    |         |           |
| 658705.37  | 4184490.63 | 0.00782 | 658356.00 |
| 4183814.13 | 0.00583    |         |           |
| 658783.42  | 4183907.96 | 0.02253 | 658844.96 |
| 4184011.43 | 0.02059    |         |           |
| 657852.76  | 4184359.55 | 0.00531 | 658013.70 |
| 4184464.19 | 0.01252    |         |           |
| 658356.21  | 4183852.60 | 0.00605 | 658487.87 |
| 4183854.81 | 0.01225    |         |           |
| 658621.29  | 4183854.81 | 0.01981 | 659353.96 |
| 4184491.93 | 0.00214    |         |           |
| 658618.84  | 4184754.20 | 0.00460 | 658624.83 |
| 4184647.10 | 0.00584    |         |           |
| 658624.08  | 4184601.04 | 0.00656 | 658684.37 |
| 4184796.51 | 0.00382    |         |           |
| 658912.05  | 4184704.77 | 0.00281 | 659090.68 |
| 4184904.74 | 0.00204    |         |           |
| 658921.04  | 4184927.95 | 0.00204 | 658586.26 |
| 4184908.48 | 0.00319    |         |           |
| 658405.01  | 4184892.00 | 0.00364 | 658487.02 |
| 4184918.97 | 0.00334    |         |           |
| 658581.39  | 4184983.00 | 0.00258 | 658428.60 |
| 4184853.43 | 0.00402    |         |           |
| 658445.08  | 4184517.53 | 0.01141 | 658435.72 |
| 4184690.54 | 0.00610    |         |           |
| 659317.34  | 4184800.77 | 0.00154 | 659331.28 |
| 4184657.35 | 0.00167    |         |           |
| 658029.00  | 4184541.67 | 0.01129 | 657824.73 |
| 4184529.27 | 0.00856    |         |           |

658007.60 4184688.03 0.00660 657931.24  
4184676.97 0.00705

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 09:17:47

PAGE 95

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): IDLE1 , IDLE2 ,  
IDLE3 , IDLE4 , IDLE5 ,  
IDLE6 , IDLE7 , IDLE8 , IDLE9 , IDLE10 ,  
IDLE11 , IDLE12 , IDLE13 ,  
IDLE14 , IDLE15 , IDLE16 , IDLE17 , IDLE18 ,  
IDLE19 , IDLE20 , IDLE21 ,  
IDLE22 , IDLE23 , IDLE24 , IDLE25 , IDLE26 ,  
IDLE27 , IDLE28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM IN \*\*  
MICROGRAMS/M\*\*3

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD |
|-------------|-------------|---------|-------------|---------|
| (M)         | CONC        |         |             |         |
| 658885.71   | 4183203.88  | 0.00512 | 658727.12   |         |
| 4183244.58  | 0.00497     |         |             |         |
| 658692.88   | 4183227.78  | 0.00463 | 658622.47   |         |
| 4183228.75  | 0.00427     |         |             |         |
| 658545.92   | 4183228.43  | 0.00386 | 658475.83   |         |
| 4183222.94  | 0.00348     |         |             |         |
| 658424.28   | 4183214.81  | 0.00319 | 658273.79   |         |
| 4183234.19  | 0.00249     |         |             |         |
| 658205.87   | 4183233.72  | 0.00216 | 658043.97   |         |
| 4183240.94  | 0.00164     |         |             |         |
| 660186.59   | 4184250.08  | 0.00087 | 660213.20   |         |
| 4184424.91  | 0.00080     |         |             |         |
| 660287.31   | 4184509.29  | 0.00071 | 660215.86   |         |
| 4184164.56  | 0.00085     |         |             |         |
| 658605.12   | 4184843.00  | 0.00381 | 658612.49   |         |
| 4184909.54  | 0.00312     |         |             |         |
| 658656.93   | 4184905.99  | 0.00306 | 658485.76   |         |
| 4184891.51  | 0.00360     |         |             |         |
| 658609.54   | 4185069.95  | 0.00200 | 658618.13   |         |
| 4185023.06  | 0.00223     |         |             |         |
| 658608.32   | 4185108.05  | 0.00184 | 658527.17   |         |
| 4185095.88  | 0.00205     |         |             |         |
| 658631.88   | 4185217.21  | 0.00140 | 658636.02   |         |
| 4185282.57  | 0.00119     |         |             |         |
| 658560.32   | 4183641.32  | 0.01065 | 657679.02   |         |
| 4184224.32  | 0.00251     |         |             |         |
| 657815.11   | 4184143.25  | 0.00254 | 657534.91   |         |
| 4184333.00  | 0.00258     |         |             |         |
| 657495.41   | 4184354.76  | 0.00263 | 657529.76   |         |
| 4184355.90  | 0.00264     |         |             |         |
| 657370.02   | 4184525.38  | 0.00304 | 657339.76   |         |
| 4184465.00  | 0.00271     |         |             |         |
| 657013.06   | 4184509.19  | 0.00157 | 658388.97   |         |
| 4183233.05  | 0.00312     |         |             |         |
| 658823.50   | 4183226.17  | 0.00516 | 659051.36   |         |
| 4183064.93  | 0.00408     |         |             |         |



658877.88 4184185.01 0.01076 660167.76  
4183945.94 0.00091  
657486.71 4184810.66  
0.00450

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:17:47

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS  
\*\*\*

\*\* CONC OF DPM IN  
MICROGRAMS/M\*\*3 \*\*

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL,  
ZFLAG) OF TYPE GRID-ID

-----

|        |                       |              |            |             |        |
|--------|-----------------------|--------------|------------|-------------|--------|
| ALL    | 1ST HIGHEST VALUE IS  | 0.10638 AT ( | 658609.95, | 4184144.35, | 13.35, |
| 13.35, | 0.00) DC              |              |            |             |        |
|        | 2ND HIGHEST VALUE IS  | 0.08781 AT ( | 658681.53, | 4184145.79, | 13.27, |
|        | 13.27, 0.00) DC       |              |            |             |        |
|        | 3RD HIGHEST VALUE IS  | 0.08320 AT ( | 658528.90, | 4184142.67, | 13.15, |
|        | 13.15, 0.00) DC       |              |            |             |        |
|        | 4TH HIGHEST VALUE IS  | 0.05103 AT ( | 658489.41, | 4184334.45, | 13.04, |
|        | 13.04, 0.00) DC       |              |            |             |        |
|        | 5TH HIGHEST VALUE IS  | 0.04872 AT ( | 658460.92, | 4184332.62, | 13.11, |
|        | 13.11, 0.00) DC       |              |            |             |        |
|        | 6TH HIGHEST VALUE IS  | 0.04850 AT ( | 658538.91, | 4184336.42, | 13.07, |
|        | 13.07, 0.00) DC       |              |            |             |        |
|        | 7TH HIGHEST VALUE IS  | 0.04694 AT ( | 658330.13, | 4184311.47, | 12.90, |
|        | 12.90, 0.00) DC       |              |            |             |        |
|        | 8TH HIGHEST VALUE IS  | 0.04640 AT ( | 658330.55, | 4184293.56, | 12.84, |
|        | 12.84, 0.00) DC       |              |            |             |        |
|        | 9TH HIGHEST VALUE IS  | 0.04610 AT ( | 658329.14, | 4184328.95, | 12.96, |
|        | 12.96, 0.00) DC       |              |            |             |        |
|        | 10TH HIGHEST VALUE IS | 0.04298 AT ( | 658331.12, | 4184275.37, | 12.78, |
|        | 12.78, 0.00) DC       |              |            |             |        |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 09:17:47

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)

|            |       |                                          |
|------------|-------|------------------------------------------|
| A Total of | 133   | Warning Message(s)                       |
| A Total of | 2753  | Informational Message(s)                 |
| A Total of | 43824 | Hours Were Processed                     |
| A Total of | 1713  | Calm Hours Identified                    |
| A Total of | 1040  | Missing Hours Identified ( 2.37 Percent) |

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

[illegible]

[illegible]

|         |      |                                                           |      |
|---------|------|-----------------------------------------------------------|------|
| SO W320 | 1580 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1581 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1582 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1583 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1584 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1585 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1586 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1587 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1588 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1589 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1590 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1591 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1634 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1635 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| ME W186 | 8704 | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50 |
| ME W187 | 8704 | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |      |

\*\*\*\*\*

\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/20/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA Mitigated\15639 Ops
HRA Mitigated.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15639 Spreckels\15639 Ops HRA\1
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 62651 Manteca
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "15639 Ops HRA Mitigated.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION IDLE1      POINT      658435.183  4184223.485      13.280
** DESCRSRC Truck Idle
  LOCATION IDLE2      POINT      658439.215  4184223.703      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE3      POINT      658443.027  4184223.749      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE4      POINT      658447.022  4184223.886      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE5      POINT      658451.109  4184223.932      13.310
** DESCRSRC Truck Idle
  LOCATION IDLE6      POINT      658458.885  4184224.125      13.310
** DESCRSRC Truck Idle
  LOCATION IDLE7      POINT      658462.918  4184224.343      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE8      POINT      658466.729  4184224.389      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE9      POINT      658470.724  4184224.527      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE10     POINT      658474.811  4184224.573      13.300
** DESCRSRC Truck Idle
  LOCATION IDLE11     POINT      658478.753  4184224.759      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE12     POINT      658482.748  4184224.851      13.290
** DESCRSRC Truck Idle
  LOCATION IDLE13     POINT      658506.326  4184225.373      13.270
** DESCRSRC Truck Idle
  LOCATION IDLE14     POINT      658510.268  4184225.559      13.250
** DESCRSRC Truck Idle
  LOCATION IDLE15     POINT      658514.263  4184225.651      13.240

```

|                        |       |            |             |  |        |
|------------------------|-------|------------|-------------|--|--------|
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE16        | POINT | 658490.400 | 4184224.926 |  | 13.290 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE17        | POINT | 658494.432 | 4184225.144 |  | 13.290 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE18        | POINT | 658498.244 | 4184225.189 |  | 13.280 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE19        | POINT | 658502.239 | 4184225.327 |  | 13.280 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE20        | POINT | 658538.103 | 4184226.246 |  | 13.190 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE21        | POINT | 658542.045 | 4184226.432 |  | 13.180 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE22        | POINT | 658546.040 | 4184226.524 |  | 13.170 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE23        | POINT | 658522.177 | 4184225.798 |  | 13.220 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE24        | POINT | 658526.209 | 4184226.016 |  | 13.210 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE25        | POINT | 658530.021 | 4184226.062 |  | 13.200 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE26        | POINT | 658534.016 | 4184226.200 |  | 13.200 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE27        | POINT | 658569.559 | 4184227.026 |  | 13.200 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE28        | POINT | 658573.500 | 4184227.212 |  | 13.200 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE29        | POINT | 658577.495 | 4184227.304 |  | 13.210 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE30        | POINT | 658553.633 | 4184226.579 |  | 13.170 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE31        | POINT | 658557.665 | 4184226.797 |  | 13.180 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE32        | POINT | 658561.477 | 4184226.843 |  | 13.180 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE33        | POINT | 658565.472 | 4184226.980 |  | 13.190 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE34        | POINT | 658601.336 | 4184227.945 |  | 13.250 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE35        | POINT | 658605.277 | 4184228.131 |  | 13.250 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE36        | POINT | 658609.272 | 4184228.223 |  | 13.250 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE37        | POINT | 658585.410 | 4184227.497 |  | 13.220 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE38        | POINT | 658589.442 | 4184227.715 |  | 13.230 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE39        | POINT | 658593.254 | 4184227.761 |  | 13.240 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE40        | POINT | 658597.249 | 4184227.899 |  | 13.240 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE41        | POINT | 658632.975 | 4184228.725 |  | 13.290 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE42        | POINT | 658636.917 | 4184228.911 |  | 13.300 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE43        | POINT | 658617.049 | 4184228.278 |  | 13.260 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE44        | POINT | 658621.081 | 4184228.496 |  | 13.270 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE45        | POINT | 658624.893 | 4184228.542 |  | 13.270 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION IDLE46        | POINT | 658628.888 | 4184228.679 |  | 13.280 |
| ** DESCRSRC Truck Idle |       |            |             |  |        |
| LOCATION TRU1          | POINT | 658435.103 | 4184226.251 |  | 13.290 |
| ** DESCRSRC TRU        |       |            |             |  |        |
| LOCATION TRU2          | POINT | 658439.083 | 4184226.213 |  | 13.290 |

|    |          |       |       |            |             |        |
|----|----------|-------|-------|------------|-------------|--------|
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU3  | POINT | 658442.987 | 4184226.331 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU4  | POINT | 658446.852 | 4184226.409 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU5  | POINT | 658450.833 | 4184226.526 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU6  | POINT | 658458.774 | 4184226.822 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU7  | POINT | 658462.754 | 4184226.784 | 13.310 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU8  | POINT | 658466.658 | 4184226.901 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU9  | POINT | 658470.523 | 4184226.979 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU10 | POINT | 658474.504 | 4184227.096 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU11 | POINT | 658478.549 | 4184227.306 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU12 | POINT | 658482.569 | 4184227.346 | 13.300 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU13 | POINT | 658490.296 | 4184227.726 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU14 | POINT | 658494.276 | 4184227.688 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU15 | POINT | 658498.180 | 4184227.805 | 13.290 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU16 | POINT | 658502.044 | 4184227.883 | 13.280 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU17 | POINT | 658506.026 | 4184228.001 | 13.270 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU18 | POINT | 658510.070 | 4184228.211 | 13.260 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU19 | POINT | 658514.091 | 4184228.250 | 13.250 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU20 | POINT | 658521.938 | 4184228.553 | 13.230 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU21 | POINT | 658525.918 | 4184228.515 | 13.220 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU22 | POINT | 658529.822 | 4184228.632 | 13.210 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU23 | POINT | 658533.686 | 4184228.710 | 13.200 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU24 | POINT | 658537.668 | 4184228.827 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU25 | POINT | 658541.713 | 4184229.038 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU26 | POINT | 658545.733 | 4184229.077 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU27 | POINT | 658553.626 | 4184229.380 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU28 | POINT | 658557.606 | 4184229.342 | 13.170 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU29 | POINT | 658561.510 | 4184229.459 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU30 | POINT | 658565.375 | 4184229.537 | 13.180 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU31 | POINT | 658569.356 | 4184229.654 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU32 | POINT | 658573.401 | 4184229.864 | 13.190 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU33 | POINT | 658577.421 | 4184229.904 | 13.200 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU34 | POINT | 658585.223 | 4184230.206 | 13.210 |
| ** | DESCRSRC | TRU   |       |            |             |        |
|    | LOCATION | TRU35 | POINT | 658589.203 | 4184230.168 | 13.220 |

|                      |       |            |             |  |        |
|----------------------|-------|------------|-------------|--|--------|
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU36       | POINT | 658593.106 | 4184230.285 |  | 13.230 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU37       | POINT | 658596.971 | 4184230.363 |  | 13.230 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU38       | POINT | 658600.953 | 4184230.481 |  | 13.240 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU39       | POINT | 658604.997 | 4184230.691 |  | 13.240 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU40       | POINT | 658609.018 | 4184230.730 |  | 13.250 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU41       | POINT | 658616.773 | 4184231.125 |  | 13.250 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU42       | POINT | 658620.753 | 4184231.087 |  | 13.260 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU43       | POINT | 658624.657 | 4184231.204 |  | 13.260 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU44       | POINT | 658628.521 | 4184231.282 |  | 13.270 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU45       | POINT | 658632.503 | 4184231.399 |  | 13.280 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TRU46       | POINT | 658636.547 | 4184231.610 |  | 13.290 |
| ** DESCRSRC TRU      |       |            |             |  |        |
| LOCATION TTP1        | POINT | 658419.221 | 4184197.291 |  | 13.180 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP2        | POINT | 658422.143 | 4184197.413 |  | 13.190 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP3        | POINT | 658425.188 | 4184197.413 |  | 13.200 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP4        | POINT | 658428.354 | 4184197.656 |  | 13.210 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP5        | POINT | 658431.398 | 4184197.778 |  | 13.220 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP6        | POINT | 658434.321 | 4184197.656 |  | 13.220 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP7        | POINT | 658437.244 | 4184197.900 |  | 13.220 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP8        | POINT | 658440.166 | 4184198.022 |  | 13.220 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP9        | POINT | 658443.211 | 4184198.022 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP10       | POINT | 658446.377 | 4184198.265 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP11       | POINT | 658449.421 | 4184198.387 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP12       | POINT | 658452.344 | 4184198.265 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP13       | POINT | 658455.632 | 4184198.387 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP14       | POINT | 658458.554 | 4184198.509 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP15       | POINT | 658461.599 | 4184198.509 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP16       | POINT | 658464.765 | 4184198.752 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP17       | POINT | 658467.809 | 4184198.874 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP18       | POINT | 658470.732 | 4184198.752 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP19       | POINT | 658474.020 | 4184198.996 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP20       | POINT | 658476.942 | 4184199.118 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP21       | POINT | 658479.987 | 4184199.118 |  | 13.230 |
| ** DESCRSRC TTP Idle |       |            |             |  |        |
| LOCATION TTP22       | POINT | 658483.153 | 4184199.361 |  | 13.230 |



|                      |       |            |             |        |  |
|----------------------|-------|------------|-------------|--------|--|
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP23       | POINT | 658486.197 | 4184199.483 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP24       | POINT | 658489.120 | 4184199.361 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP25       | POINT | 658491.921 | 4184199.483 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP26       | POINT | 658494.844 | 4184199.605 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP27       | POINT | 658497.888 | 4184199.605 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP28       | POINT | 658501.054 | 4184199.848 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP29       | POINT | 658504.099 | 4184199.970 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP30       | POINT | 658507.021 | 4184199.848 | 13.220 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP31       | POINT | 658510.309 | 4184199.727 | 13.210 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP32       | POINT | 658513.232 | 4184199.848 | 13.210 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP33       | POINT | 658516.276 | 4184199.848 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP34       | POINT | 658519.442 | 4184200.092 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP35       | POINT | 658522.487 | 4184200.214 | 13.190 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP36       | POINT | 658525.409 | 4184200.092 | 13.190 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP37       | POINT | 658528.819 | 4184200.336 | 13.190 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP38       | POINT | 658531.742 | 4184200.457 | 13.190 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP39       | POINT | 658534.786 | 4184200.457 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP40       | POINT | 658537.952 | 4184200.701 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP41       | POINT | 658540.997 | 4184200.823 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP42       | POINT | 658543.919 | 4184200.701 | 13.200 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP43       | POINT | 658546.720 | 4184200.701 | 13.210 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP44       | POINT | 658549.643 | 4184200.823 | 13.210 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP45       | POINT | 658552.687 | 4184200.823 | 13.220 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP46       | POINT | 658555.853 | 4184201.066 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP47       | POINT | 658558.898 | 4184201.188 | 13.230 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP48       | POINT | 658561.820 | 4184201.066 | 13.240 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP49       | POINT | 658565.230 | 4184201.188 | 13.250 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP50       | POINT | 658568.153 | 4184201.310 | 13.260 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP51       | POINT | 658571.197 | 4184201.310 | 13.270 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP52       | POINT | 658574.363 | 4184201.553 | 13.280 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP53       | POINT | 658577.408 | 4184201.675 | 13.280 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP54       | POINT | 658580.330 | 4184201.553 | 13.290 |  |
| ** DESCRSRC TTP Idle |       |            |             |        |  |
| LOCATION TTP55       | POINT | 658583.375 | 4184201.919 | 13.290 |  |

|             |          |       |            |             |        |
|-------------|----------|-------|------------|-------------|--------|
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP56    | POINT | 658586.297 | 4184202.040 | 13.290 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP57    | POINT | 658589.342 | 4184202.040 | 13.300 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP58    | POINT | 658592.508 | 4184202.284 | 13.300 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP59    | POINT | 658595.552 | 4184202.406 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP60    | POINT | 658598.475 | 4184202.284 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP61    | POINT | 658601.763 | 4184202.162 | 13.310 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP62    | POINT | 658604.685 | 4184202.284 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP63    | POINT | 658607.730 | 4184202.284 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP64    | POINT | 658610.896 | 4184202.527 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP65    | POINT | 658613.940 | 4184202.649 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP66    | POINT | 658616.863 | 4184202.527 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP67    | POINT | 658619.907 | 4184202.771 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP68    | POINT | 658622.830 | 4184202.893 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP69    | POINT | 658625.874 | 4184202.893 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP70    | POINT | 658629.041 | 4184203.136 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP71    | POINT | 658632.085 | 4184203.258 | 13.320 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP72    | POINT | 658635.008 | 4184203.136 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP73    | POINT | 658638.174 | 4184203.258 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP74    | POINT | 658641.096 | 4184203.380 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP75    | POINT | 658644.141 | 4184203.380 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP76    | POINT | 658647.307 | 4184203.623 | 13.330 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP77    | POINT | 658650.351 | 4184203.745 | 13.340 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP78    | POINT | 658653.274 | 4184203.623 | 13.350 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP79    | POINT | 658656.075 | 4184203.745 | 13.360 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP80    | POINT | 658658.997 | 4184203.867 | 13.370 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP81    | POINT | 658662.042 | 4184203.867 | 13.380 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP82    | POINT | 658665.208 | 4184204.111 | 13.400 |
| ** DESCRSRC | TTP Idle |       |            |             |        |
| LOCATION    | TTP83    | POINT | 658668.252 | 4184204.232 | 13.410 |

\*\* -----  
 \*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE1  
 \*\* DESCRSRC On-Site  
 \*\* PREFIX  
 \*\* Length of Side = 8.59  
 \*\* Configuration = Adjacent  
 \*\* Emission Rate = 0.00008511  
 \*\* Vertical Dimension = 6.99

```

** SZINIT = 3.25
** Nodes = 7
** 658415.809, 4184209.947, 13.21, 3.49, 4.00
** 658601.519, 4184213.680, 13.30, 3.49, 4.00
** 658684.575, 4184216.013, 13.51, 3.49, 4.00
** 658704.172, 4184217.180, 13.56, 3.49, 4.00
** 658717.471, 4184217.413, 13.60, 3.49, 4.00
** 658738.935, 4184219.979, 13.57, 3.49, 4.00
** 658762.732, 4184224.879, 13.10, 3.49, 4.00
** -----
LOCATION L0000001    VOLUME  658420.103 4184210.034 13.23
LOCATION L0000002    VOLUME  658428.692 4184210.206 13.27
LOCATION L0000003    VOLUME  658437.280 4184210.379 13.28
LOCATION L0000004    VOLUME  658445.868 4184210.551 13.28
LOCATION L0000005    VOLUME  658454.456 4184210.724 13.29
LOCATION L0000006    VOLUME  658463.045 4184210.897 13.28
LOCATION L0000007    VOLUME  658471.633 4184211.069 13.28
LOCATION L0000008    VOLUME  658480.221 4184211.242 13.27
LOCATION L0000009    VOLUME  658488.810 4184211.415 13.26
LOCATION L0000010    VOLUME  658497.398 4184211.587 13.26
LOCATION L0000011    VOLUME  658505.986 4184211.760 13.24
LOCATION L0000012    VOLUME  658514.574 4184211.932 13.21
LOCATION L0000013    VOLUME  658523.163 4184212.105 13.19
LOCATION L0000014    VOLUME  658531.751 4184212.278 13.18
LOCATION L0000015    VOLUME  658540.339 4184212.450 13.18
LOCATION L0000016    VOLUME  658548.927 4184212.623 13.18
LOCATION L0000017    VOLUME  658557.516 4184212.796 13.20
LOCATION L0000018    VOLUME  658566.104 4184212.968 13.23
LOCATION L0000019    VOLUME  658574.692 4184213.141 13.26
LOCATION L0000020    VOLUME  658583.280 4184213.313 13.28
LOCATION L0000021    VOLUME  658591.869 4184213.486 13.29
LOCATION L0000022    VOLUME  658600.457 4184213.659 13.30
LOCATION L0000023    VOLUME  658609.044 4184213.891 13.31
LOCATION L0000024    VOLUME  658617.630 4184214.133 13.31
LOCATION L0000025    VOLUME  658626.217 4184214.374 13.31
LOCATION L0000026    VOLUME  658634.804 4184214.615 13.32
LOCATION L0000027    VOLUME  658643.390 4184214.856 13.33
LOCATION L0000028    VOLUME  658651.977 4184215.097 13.35
LOCATION L0000029    VOLUME  658660.563 4184215.339 13.40
LOCATION L0000030    VOLUME  658669.150 4184215.580 13.44
LOCATION L0000031    VOLUME  658677.737 4184215.821 13.48
LOCATION L0000032    VOLUME  658686.321 4184216.117 13.51
LOCATION L0000033    VOLUME  658694.896 4184216.627 13.55
LOCATION L0000034    VOLUME  658703.471 4184217.138 13.57
LOCATION L0000035    VOLUME  658712.058 4184217.318 13.58
LOCATION L0000036    VOLUME  658720.625 4184217.790 13.60
LOCATION L0000037    VOLUME  658729.154 4184218.810 13.60
LOCATION L0000038    VOLUME  658737.683 4184219.830 13.59
LOCATION L0000039    VOLUME  658746.114 4184221.457 13.54
LOCATION L0000040    VOLUME  658754.527 4184223.190 13.33
** End of LINE VOLUME Source ID = SLINE1
LOCATION STCK1        POINT      658699.750 4184281.400      13.560
** DESCRSRC Fire Pump
LOCATION STCK2        POINT      658700.160 4184271.260      13.560
** DESCRSRC Emergency Generator
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Spreckels S 71.12%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002895
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 10

```

\*\* 658773.380, 4184223.229, 13.01, 3.49, 6.51  
\*\* 658777.575, 4184195.266, 12.95, 3.49, 6.51  
\*\* 658777.575, 4184152.389, 12.90, 3.49, 6.51  
\*\* 658773.846, 4184100.658, 13.02, 3.49, 6.51  
\*\* 658756.137, 4184034.479, 12.95, 3.49, 6.51  
\*\* 658742.621, 4183996.729, 12.81, 3.49, 6.51  
\*\* 658722.115, 4183953.853, 12.87, 3.49, 6.51  
\*\* 658633.566, 4183821.495, 12.98, 3.49, 6.51  
\*\* 658569.717, 4183730.149, 12.58, 3.49, 6.51  
\*\* 658479.770, 4183604.782, 12.56, 3.49, 6.51  
\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000041 | VOLUME | 658774.419 | 4184216.306 | 12.95 |
| LOCATION | L0000042 | VOLUME | 658776.496 | 4184202.461 | 12.95 |
| LOCATION | L0000043 | VOLUME | 658777.575 | 4184188.542 | 12.95 |
| LOCATION | L0000044 | VOLUME | 658777.575 | 4184174.542 | 12.92 |
| LOCATION | L0000045 | VOLUME | 658777.575 | 4184160.542 | 12.89 |
| LOCATION | L0000046 | VOLUME | 658777.154 | 4184146.557 | 12.92 |
| LOCATION | L0000047 | VOLUME | 658776.148 | 4184132.593 | 12.99 |
| LOCATION | L0000048 | VOLUME | 658775.142 | 4184118.629 | 13.05 |
| LOCATION | L0000049 | VOLUME | 658774.135 | 4184104.666 | 13.03 |
| LOCATION | L0000050 | VOLUME | 658771.266 | 4184091.015 | 12.98 |
| LOCATION | L0000051 | VOLUME | 658767.647 | 4184077.491 | 12.96 |
| LOCATION | L0000052 | VOLUME | 658764.028 | 4184063.967 | 12.95 |
| LOCATION | L0000053 | VOLUME | 658760.409 | 4184050.443 | 12.96 |
| LOCATION | L0000054 | VOLUME | 658756.789 | 4184036.919 | 12.95 |
| LOCATION | L0000055 | VOLUME | 658752.269 | 4184023.676 | 12.91 |
| LOCATION | L0000056 | VOLUME | 658747.550 | 4184010.495 | 12.84 |
| LOCATION | L0000057 | VOLUME | 658742.831 | 4183997.315 | 12.86 |
| LOCATION | L0000058 | VOLUME | 658736.849 | 4183984.660 | 12.90 |
| LOCATION | L0000059 | VOLUME | 658730.809 | 4183972.030 | 12.93 |
| LOCATION | L0000060 | VOLUME | 658724.768 | 4183959.401 | 12.92 |
| LOCATION | L0000061 | VOLUME | 658717.750 | 4183947.328 | 12.89 |
| LOCATION | L0000062 | VOLUME | 658709.965 | 4183935.692 | 12.89 |
| LOCATION | L0000063 | VOLUME | 658702.181 | 4183924.056 | 12.89 |
| LOCATION | L0000064 | VOLUME | 658694.396 | 4183912.420 | 12.88 |
| LOCATION | L0000065 | VOLUME | 658686.611 | 4183900.784 | 12.94 |
| LOCATION | L0000066 | VOLUME | 658678.826 | 4183889.148 | 12.99 |
| LOCATION | L0000067 | VOLUME | 658671.042 | 4183877.511 | 13.15 |
| LOCATION | L0000068 | VOLUME | 658663.257 | 4183865.875 | 13.23 |
| LOCATION | L0000069 | VOLUME | 658655.472 | 4183854.239 | 13.09 |
| LOCATION | L0000070 | VOLUME | 658647.688 | 4183842.603 | 12.85 |
| LOCATION | L0000071 | VOLUME | 658639.903 | 4183830.967 | 12.93 |
| LOCATION | L0000072 | VOLUME | 658632.074 | 4183819.361 | 12.96 |
| LOCATION | L0000073 | VOLUME | 658624.054 | 4183807.886 | 12.92 |
| LOCATION | L0000074 | VOLUME | 658616.033 | 4183796.412 | 12.89 |
| LOCATION | L0000075 | VOLUME | 658608.012 | 4183784.937 | 12.90 |
| LOCATION | L0000076 | VOLUME | 658599.992 | 4183773.462 | 12.80 |
| LOCATION | L0000077 | VOLUME | 658591.971 | 4183761.987 | 12.74 |
| LOCATION | L0000078 | VOLUME | 658583.951 | 4183750.513 | 12.76 |
| LOCATION | L0000079 | VOLUME | 658575.930 | 4183739.038 | 12.62 |
| LOCATION | L0000080 | VOLUME | 658567.878 | 4183727.586 | 12.52 |
| LOCATION | L0000081 | VOLUME | 658559.716 | 4183716.210 | 12.51 |
| LOCATION | L0000082 | VOLUME | 658551.555 | 4183704.835 | 12.23 |
| LOCATION | L0000083 | VOLUME | 658543.394 | 4183693.460 | 12.20 |
| LOCATION | L0000084 | VOLUME | 658535.232 | 4183682.085 | 12.27 |
| LOCATION | L0000085 | VOLUME | 658527.071 | 4183670.710 | 12.05 |
| LOCATION | L0000086 | VOLUME | 658518.910 | 4183659.335 | 12.11 |
| LOCATION | L0000087 | VOLUME | 658510.748 | 4183647.960 | 12.14 |
| LOCATION | L0000088 | VOLUME | 658502.587 | 4183636.585 | 12.14 |
| LOCATION | L0000089 | VOLUME | 658494.426 | 4183625.210 | 12.42 |
| LOCATION | L0000090 | VOLUME | 658486.265 | 4183613.835 | 12.48 |

\*\* End of LINE VOLUME Source ID = SLINE2

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Spreckels S 37.93%

```

** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00004855
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 18
** 658479.703, 4183602.879, 12.57, 3.49, 6.51
** 658440.998, 4183545.467, 12.80, 3.49, 6.51
** 658404.874, 4183508.053, 12.70, 3.49, 6.51
** 658348.752, 4183472.573, 12.96, 3.49, 6.51
** 658313.273, 4183459.027, 12.90, 3.49, 6.51
** 658273.278, 4183449.351, 13.05, 3.49, 6.51
** 658235.864, 4183448.060, 13.21, 3.49, 6.51
** 658002.346, 4183441.610, 12.76, 3.49, 6.51
** 657926.872, 4183446.125, 12.28, 3.49, 6.51
** 657908.439, 4183448.168, 12.04, 3.49, 6.51
** 657870.937, 4183464.240, 11.81, 3.49, 6.51
** 657678.617, 4183554.320, 11.22, 3.49, 6.51
** 657368.460, 4183705.863, 11.53, 3.49, 6.51
** 657316.598, 4183729.099, 11.47, 3.49, 6.51
** 657297.066, 4183738.529, 11.48, 3.49, 6.51
** 657248.750, 4183749.256, 11.39, 3.49, 6.51
** 657089.806, 4183749.256, 11.41, 3.49, 6.51
** 657113.915, 4183052.762, 11.70, 3.49, 6.51
** -----
LOCATION L0000091      VOLUME 658475.790 4183597.075 12.59
LOCATION L0000092      VOLUME 658467.964 4183585.466 12.78
LOCATION L0000093      VOLUME 658460.138 4183573.858 12.99
LOCATION L0000094      VOLUME 658452.312 4183562.249 13.07
LOCATION L0000095      VOLUME 658444.486 4183550.641 12.90
LOCATION L0000096      VOLUME 658435.608 4183539.884 12.73
LOCATION L0000097      VOLUME 658425.884 4183529.813 12.62
LOCATION L0000098      VOLUME 658416.160 4183519.741 12.61
LOCATION L0000099      VOLUME 658406.435 4183509.670 12.65
LOCATION L0000100      VOLUME 658394.940 4183501.773 12.70
LOCATION L0000101      VOLUME 658383.107 4183494.292 12.72
LOCATION L0000102      VOLUME 658371.273 4183486.811 12.77
LOCATION L0000103      VOLUME 658359.439 4183479.330 12.85
LOCATION L0000104      VOLUME 658347.485 4183472.089 12.92
LOCATION L0000105      VOLUME 658334.406 4183467.096 12.93
LOCATION L0000106      VOLUME 658321.327 4183462.102 12.93
LOCATION L0000107      VOLUME 658308.045 4183457.762 12.99
LOCATION L0000108      VOLUME 658294.438 4183454.470 13.08
LOCATION L0000109      VOLUME 658280.830 4183451.178 13.17
LOCATION L0000110      VOLUME 658267.052 4183449.136 13.23
LOCATION L0000111      VOLUME 658253.060 4183448.653 13.24
LOCATION L0000112      VOLUME 658239.068 4183448.171 13.24
LOCATION L0000113      VOLUME 658225.074 4183447.762 13.23
LOCATION L0000114      VOLUME 658211.080 4183447.376 13.21
LOCATION L0000115      VOLUME 658197.085 4183446.989 13.19
LOCATION L0000116      VOLUME 658183.090 4183446.603 13.18
LOCATION L0000117      VOLUME 658169.096 4183446.216 13.17
LOCATION L0000118      VOLUME 658155.101 4183445.829 13.13
LOCATION L0000119      VOLUME 658141.106 4183445.443 13.09
LOCATION L0000120      VOLUME 658127.112 4183445.056 13.05
LOCATION L0000121      VOLUME 658113.117 4183444.670 13.02
LOCATION L0000122      VOLUME 658099.122 4183444.283 12.99
LOCATION L0000123      VOLUME 658085.128 4183443.896 12.96
LOCATION L0000124      VOLUME 658071.133 4183443.510 12.93
LOCATION L0000125      VOLUME 658057.138 4183443.123 12.92
LOCATION L0000126      VOLUME 658043.144 4183442.737 12.89
LOCATION L0000127      VOLUME 658029.149 4183442.350 12.86
LOCATION L0000128      VOLUME 658015.154 4183441.963 12.81
LOCATION L0000129      VOLUME 658001.161 4183441.680 12.75
LOCATION L0000130      VOLUME 657987.186 4183442.517 12.67

```

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000131 | VOLUME | 657973.211 | 4183443.353 | 12.59 |
| LOCATION | L0000132 | VOLUME | 657959.236 | 4183444.189 | 12.49 |
| LOCATION | L0000133 | VOLUME | 657945.261 | 4183445.025 | 12.40 |
| LOCATION | L0000134 | VOLUME | 657931.286 | 4183445.861 | 12.30 |
| LOCATION | L0000135 | VOLUME | 657917.353 | 4183447.180 | 12.16 |
| LOCATION | L0000136 | VOLUME | 657903.814 | 4183450.150 | 12.01 |
| LOCATION | L0000137 | VOLUME | 657890.946 | 4183455.665 | 11.91 |
| LOCATION | L0000138 | VOLUME | 657878.078 | 4183461.180 | 11.79 |
| LOCATION | L0000139 | VOLUME | 657865.294 | 4183466.883 | 11.80 |
| LOCATION | L0000140 | VOLUME | 657852.616 | 4183472.822 | 11.77 |
| LOCATION | L0000141 | VOLUME | 657839.938 | 4183478.760 | 11.74 |
| LOCATION | L0000142 | VOLUME | 657827.260 | 4183484.698 | 11.66 |
| LOCATION | L0000143 | VOLUME | 657814.582 | 4183490.637 | 11.56 |
| LOCATION | L0000144 | VOLUME | 657801.903 | 4183496.575 | 11.50 |
| LOCATION | L0000145 | VOLUME | 657789.225 | 4183502.513 | 11.46 |
| LOCATION | L0000146 | VOLUME | 657776.547 | 4183508.451 | 11.41 |
| LOCATION | L0000147 | VOLUME | 657763.869 | 4183514.390 | 11.33 |
| LOCATION | L0000148 | VOLUME | 657751.191 | 4183520.328 | 11.25 |
| LOCATION | L0000149 | VOLUME | 657738.512 | 4183526.266 | 11.27 |
| LOCATION | L0000150 | VOLUME | 657725.834 | 4183532.204 | 11.28 |
| LOCATION | L0000151 | VOLUME | 657713.156 | 4183538.143 | 11.29 |
| LOCATION | L0000152 | VOLUME | 657700.478 | 4183544.081 | 11.24 |
| LOCATION | L0000153 | VOLUME | 657687.800 | 4183550.019 | 11.25 |
| LOCATION | L0000154 | VOLUME | 657675.149 | 4183556.015 | 11.36 |
| LOCATION | L0000155 | VOLUME | 657662.570 | 4183562.161 | 11.44 |
| LOCATION | L0000156 | VOLUME | 657649.991 | 4183568.307 | 11.44 |
| LOCATION | L0000157 | VOLUME | 657637.412 | 4183574.453 | 11.40 |
| LOCATION | L0000158 | VOLUME | 657624.833 | 4183580.599 | 11.43 |
| LOCATION | L0000159 | VOLUME | 657612.255 | 4183586.745 | 11.52 |
| LOCATION | L0000160 | VOLUME | 657599.676 | 4183592.891 | 11.56 |
| LOCATION | L0000161 | VOLUME | 657587.097 | 4183599.037 | 11.53 |
| LOCATION | L0000162 | VOLUME | 657574.518 | 4183605.183 | 11.45 |
| LOCATION | L0000163 | VOLUME | 657561.939 | 4183611.329 | 11.43 |
| LOCATION | L0000164 | VOLUME | 657549.361 | 4183617.475 | 11.46 |
| LOCATION | L0000165 | VOLUME | 657536.782 | 4183623.621 | 11.45 |
| LOCATION | L0000166 | VOLUME | 657524.203 | 4183629.767 | 11.40 |
| LOCATION | L0000167 | VOLUME | 657511.624 | 4183635.913 | 11.26 |
| LOCATION | L0000168 | VOLUME | 657499.045 | 4183642.059 | 11.19 |
| LOCATION | L0000169 | VOLUME | 657486.466 | 4183648.205 | 11.15 |
| LOCATION | L0000170 | VOLUME | 657473.888 | 4183654.351 | 11.12 |
| LOCATION | L0000171 | VOLUME | 657461.309 | 4183660.497 | 11.06 |
| LOCATION | L0000172 | VOLUME | 657448.730 | 4183666.643 | 10.96 |
| LOCATION | L0000173 | VOLUME | 657436.151 | 4183672.789 | 10.99 |
| LOCATION | L0000174 | VOLUME | 657423.572 | 4183678.935 | 11.15 |
| LOCATION | L0000175 | VOLUME | 657410.994 | 4183685.081 | 11.27 |
| LOCATION | L0000176 | VOLUME | 657398.415 | 4183691.227 | 11.33 |
| LOCATION | L0000177 | VOLUME | 657385.836 | 4183697.373 | 11.34 |
| LOCATION | L0000178 | VOLUME | 657373.257 | 4183703.519 | 11.45 |
| LOCATION | L0000179 | VOLUME | 657360.556 | 4183709.404 | 11.50 |
| LOCATION | L0000180 | VOLUME | 657347.780 | 4183715.128 | 11.51 |
| LOCATION | L0000181 | VOLUME | 657335.004 | 4183720.853 | 11.49 |
| LOCATION | L0000182 | VOLUME | 657322.228 | 4183726.577 | 11.46 |
| LOCATION | L0000183 | VOLUME | 657309.546 | 4183732.504 | 11.46 |
| LOCATION | L0000184 | VOLUME | 657296.927 | 4183738.560 | 11.45 |
| LOCATION | L0000185 | VOLUME | 657283.260 | 4183741.594 | 11.43 |
| LOCATION | L0000186 | VOLUME | 657269.593 | 4183744.628 | 11.41 |
| LOCATION | L0000187 | VOLUME | 657255.926 | 4183747.663 | 11.39 |
| LOCATION | L0000188 | VOLUME | 657242.100 | 4183749.256 | 11.36 |
| LOCATION | L0000189 | VOLUME | 657228.100 | 4183749.256 | 11.33 |
| LOCATION | L0000190 | VOLUME | 657214.100 | 4183749.256 | 11.30 |
| LOCATION | L0000191 | VOLUME | 657200.100 | 4183749.256 | 11.29 |
| LOCATION | L0000192 | VOLUME | 657186.100 | 4183749.256 | 11.28 |
| LOCATION | L0000193 | VOLUME | 657172.100 | 4183749.256 | 11.28 |
| LOCATION | L0000194 | VOLUME | 657158.100 | 4183749.256 | 11.30 |
| LOCATION | L0000195 | VOLUME | 657144.100 | 4183749.256 | 11.34 |
| LOCATION | L0000196 | VOLUME | 657130.100 | 4183749.256 | 11.39 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000197 | VOLUME | 657116.100 | 4183749.256 | 11.44 |
| LOCATION | L0000198 | VOLUME | 657102.100 | 4183749.256 | 11.43 |
| LOCATION | L0000199 | VOLUME | 657089.865 | 4183747.551 | 11.40 |
| LOCATION | L0000200 | VOLUME | 657090.349 | 4183733.559 | 11.37 |
| LOCATION | L0000201 | VOLUME | 657090.834 | 4183719.568 | 11.33 |
| LOCATION | L0000202 | VOLUME | 657091.318 | 4183705.576 | 11.29 |
| LOCATION | L0000203 | VOLUME | 657091.802 | 4183691.585 | 11.25 |
| LOCATION | L0000204 | VOLUME | 657092.287 | 4183677.593 | 11.17 |
| LOCATION | L0000205 | VOLUME | 657092.771 | 4183663.601 | 11.08 |
| LOCATION | L0000206 | VOLUME | 657093.255 | 4183649.610 | 11.02 |
| LOCATION | L0000207 | VOLUME | 657093.740 | 4183635.618 | 10.96 |
| LOCATION | L0000208 | VOLUME | 657094.224 | 4183621.627 | 10.96 |
| LOCATION | L0000209 | VOLUME | 657094.708 | 4183607.635 | 11.01 |
| LOCATION | L0000210 | VOLUME | 657095.193 | 4183593.643 | 11.03 |
| LOCATION | L0000211 | VOLUME | 657095.677 | 4183579.652 | 11.02 |
| LOCATION | L0000212 | VOLUME | 657096.161 | 4183565.660 | 11.02 |
| LOCATION | L0000213 | VOLUME | 657096.646 | 4183551.668 | 11.13 |
| LOCATION | L0000214 | VOLUME | 657097.130 | 4183537.677 | 11.24 |
| LOCATION | L0000215 | VOLUME | 657097.614 | 4183523.685 | 11.41 |
| LOCATION | L0000216 | VOLUME | 657098.099 | 4183509.694 | 11.59 |
| LOCATION | L0000217 | VOLUME | 657098.583 | 4183495.702 | 11.78 |
| LOCATION | L0000218 | VOLUME | 657099.067 | 4183481.710 | 11.97 |
| LOCATION | L0000219 | VOLUME | 657099.552 | 4183467.719 | 12.03 |
| LOCATION | L0000220 | VOLUME | 657100.036 | 4183453.727 | 11.98 |
| LOCATION | L0000221 | VOLUME | 657100.520 | 4183439.735 | 12.02 |
| LOCATION | L0000222 | VOLUME | 657101.005 | 4183425.744 | 12.24 |
| LOCATION | L0000223 | VOLUME | 657101.489 | 4183411.752 | 12.48 |
| LOCATION | L0000224 | VOLUME | 657101.973 | 4183397.761 | 12.80 |
| LOCATION | L0000225 | VOLUME | 657102.458 | 4183383.769 | 13.12 |
| LOCATION | L0000226 | VOLUME | 657102.942 | 4183369.777 | 13.43 |
| LOCATION | L0000227 | VOLUME | 657103.426 | 4183355.786 | 13.75 |
| LOCATION | L0000228 | VOLUME | 657103.911 | 4183341.794 | 14.00 |
| LOCATION | L0000229 | VOLUME | 657104.395 | 4183327.803 | 14.24 |
| LOCATION | L0000230 | VOLUME | 657104.879 | 4183313.811 | 14.00 |
| LOCATION | L0000231 | VOLUME | 657105.363 | 4183299.819 | 13.30 |
| LOCATION | L0000232 | VOLUME | 657105.848 | 4183285.828 | 12.72 |
| LOCATION | L0000233 | VOLUME | 657106.332 | 4183271.836 | 12.46 |
| LOCATION | L0000234 | VOLUME | 657106.816 | 4183257.844 | 12.30 |
| LOCATION | L0000235 | VOLUME | 657107.301 | 4183243.853 | 13.07 |
| LOCATION | L0000236 | VOLUME | 657107.785 | 4183229.861 | 13.87 |
| LOCATION | L0000237 | VOLUME | 657108.269 | 4183215.870 | 13.95 |
| LOCATION | L0000238 | VOLUME | 657108.754 | 4183201.878 | 13.97 |
| LOCATION | L0000239 | VOLUME | 657109.238 | 4183187.886 | 13.82 |
| LOCATION | L0000240 | VOLUME | 657109.722 | 4183173.895 | 13.61 |
| LOCATION | L0000241 | VOLUME | 657110.207 | 4183159.903 | 13.36 |
| LOCATION | L0000242 | VOLUME | 657110.691 | 4183145.911 | 13.07 |
| LOCATION | L0000243 | VOLUME | 657111.175 | 4183131.920 | 12.77 |
| LOCATION | L0000244 | VOLUME | 657111.660 | 4183117.928 | 12.41 |
| LOCATION | L0000245 | VOLUME | 657112.144 | 4183103.937 | 12.08 |
| LOCATION | L0000246 | VOLUME | 657112.628 | 4183089.945 | 11.93 |
| LOCATION | L0000247 | VOLUME | 657113.113 | 4183075.953 | 11.77 |
| LOCATION | L0000248 | VOLUME | 657113.597 | 4183061.962 | 11.78 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Mofatt 9.27%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.441E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 15

\*\* 658473.571, 4183597.801, 12.61, 3.49, 6.51

\*\* 658365.115, 4183676.778, 12.74, 3.49, 6.51

\*\* 658143.756, 4183838.071, 11.67, 3.49, 6.51  
\*\* 658061.441, 4183898.138, 11.43, 3.49, 6.51  
\*\* 657958.548, 4183972.110, 11.41, 3.49, 6.51  
\*\* 657919.059, 4184007.149, 11.52, 3.49, 6.51  
\*\* 657890.694, 4184041.076, 11.54, 3.49, 6.51  
\*\* 657859.548, 4184074.447, 11.47, 3.49, 6.51  
\*\* 657810.048, 4184112.267, 11.30, 3.49, 6.51  
\*\* 657595.362, 4184262.436, 11.90, 3.49, 6.51  
\*\* 657317.272, 4184459.880, 11.65, 3.49, 6.51  
\*\* 657123.165, 4184601.706, 11.24, 3.49, 6.51  
\*\* 657087.570, 4184626.734, 11.09, 3.49, 6.51  
\*\* 657059.761, 4184638.970, 11.03, 3.49, 6.51  
\*\* 657056.980, 4184638.970, 11.01, 3.49, 6.51

\*\* -----  
LOCATION L0000249 VOLUME 658467.912 4183601.921 12.58  
LOCATION L0000250 VOLUME 658456.595 4183610.163 12.54  
LOCATION L0000251 VOLUME 658445.277 4183618.404 12.50  
LOCATION L0000252 VOLUME 658433.960 4183626.645 12.37  
LOCATION L0000253 VOLUME 658422.643 4183634.887 12.22  
LOCATION L0000254 VOLUME 658411.326 4183643.128 12.28  
LOCATION L0000255 VOLUME 658400.008 4183651.369 12.40  
LOCATION L0000256 VOLUME 658388.691 4183659.610 12.48  
LOCATION L0000257 VOLUME 658377.374 4183667.852 12.44  
LOCATION L0000258 VOLUME 658366.056 4183676.093 12.66  
LOCATION L0000259 VOLUME 658354.741 4183684.337 12.80  
LOCATION L0000260 VOLUME 658343.426 4183692.582 12.78  
LOCATION L0000261 VOLUME 658332.111 4183700.826 12.75  
LOCATION L0000262 VOLUME 658320.796 4183709.071 12.76  
LOCATION L0000263 VOLUME 658309.482 4183717.316 12.75  
LOCATION L0000264 VOLUME 658298.167 4183725.560 12.65  
LOCATION L0000265 VOLUME 658286.852 4183733.805 12.60  
LOCATION L0000266 VOLUME 658275.537 4183742.049 12.57  
LOCATION L0000267 VOLUME 658264.222 4183750.294 12.54  
LOCATION L0000268 VOLUME 658252.907 4183758.538 12.44  
LOCATION L0000269 VOLUME 658241.592 4183766.783 12.39  
LOCATION L0000270 VOLUME 658230.277 4183775.027 12.34  
LOCATION L0000271 VOLUME 658218.962 4183783.272 12.25  
LOCATION L0000272 VOLUME 658207.647 4183791.516 12.14  
LOCATION L0000273 VOLUME 658196.332 4183799.761 12.06  
LOCATION L0000274 VOLUME 658185.017 4183808.005 11.98  
LOCATION L0000275 VOLUME 658173.702 4183816.250 11.89  
LOCATION L0000276 VOLUME 658162.388 4183824.495 11.81  
LOCATION L0000277 VOLUME 658151.073 4183832.739 11.72  
LOCATION L0000278 VOLUME 658139.760 4183840.986 11.66  
LOCATION L0000279 VOLUME 658128.451 4183849.239 11.60  
LOCATION L0000280 VOLUME 658117.142 4183857.492 11.56  
LOCATION L0000281 VOLUME 658105.833 4183865.744 11.49  
LOCATION L0000282 VOLUME 658094.523 4183873.997 11.46  
LOCATION L0000283 VOLUME 658083.214 4183882.249 11.46  
LOCATION L0000284 VOLUME 658071.905 4183890.502 11.44  
LOCATION L0000285 VOLUME 658060.592 4183898.748 11.42  
LOCATION L0000286 VOLUME 658049.225 4183906.921 11.39  
LOCATION L0000287 VOLUME 658037.857 4183915.093 11.36  
LOCATION L0000288 VOLUME 658026.490 4183923.265 11.37  
LOCATION L0000289 VOLUME 658015.123 4183931.437 11.38  
LOCATION L0000290 VOLUME 658003.755 4183939.609 11.36  
LOCATION L0000291 VOLUME 657992.388 4183947.781 11.36  
LOCATION L0000292 VOLUME 657981.021 4183955.954 11.37  
LOCATION L0000293 VOLUME 657969.653 4183964.126 11.39  
LOCATION L0000294 VOLUME 657958.307 4183972.324 11.40  
LOCATION L0000295 VOLUME 657947.835 4183981.616 11.46  
LOCATION L0000296 VOLUME 657937.363 4183990.908 11.48  
LOCATION L0000297 VOLUME 657926.891 4184000.200 11.46  
LOCATION L0000298 VOLUME 657916.795 4184009.857 11.50  
LOCATION L0000299 VOLUME 657907.815 4184020.597 11.51  
LOCATION L0000300 VOLUME 657898.836 4184031.338 11.51



|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000301 | VOLUME | 657889.802 | 4184042.031 | 11.52 |
| LOCATION | L0000302 | VOLUME | 657880.250 | 4184052.266 | 11.47 |
| LOCATION | L0000303 | VOLUME | 657870.697 | 4184062.501 | 11.45 |
| LOCATION | L0000304 | VOLUME | 657861.145 | 4184072.736 | 11.46 |
| LOCATION | L0000305 | VOLUME | 657850.283 | 4184081.526 | 11.45 |
| LOCATION | L0000306 | VOLUME | 657839.159 | 4184090.025 | 11.43 |
| LOCATION | L0000307 | VOLUME | 657828.034 | 4184098.525 | 11.45 |
| LOCATION | L0000308 | VOLUME | 657816.910 | 4184107.025 | 11.50 |
| LOCATION | L0000309 | VOLUME | 657805.652 | 4184115.342 | 11.40 |
| LOCATION | L0000310 | VOLUME | 657794.180 | 4184123.367 | 11.41 |
| LOCATION | L0000311 | VOLUME | 657782.708 | 4184131.391 | 11.46 |
| LOCATION | L0000312 | VOLUME | 657771.236 | 4184139.416 | 11.50 |
| LOCATION | L0000313 | VOLUME | 657759.764 | 4184147.440 | 11.42 |
| LOCATION | L0000314 | VOLUME | 657748.292 | 4184155.465 | 11.45 |
| LOCATION | L0000315 | VOLUME | 657736.820 | 4184163.489 | 11.55 |
| LOCATION | L0000316 | VOLUME | 657725.348 | 4184171.513 | 11.51 |
| LOCATION | L0000317 | VOLUME | 657713.876 | 4184179.538 | 11.51 |
| LOCATION | L0000318 | VOLUME | 657702.404 | 4184187.562 | 11.60 |
| LOCATION | L0000319 | VOLUME | 657690.931 | 4184195.587 | 11.78 |
| LOCATION | L0000320 | VOLUME | 657679.459 | 4184203.611 | 11.82 |
| LOCATION | L0000321 | VOLUME | 657667.987 | 4184211.636 | 11.83 |
| LOCATION | L0000322 | VOLUME | 657656.515 | 4184219.660 | 11.81 |
| LOCATION | L0000323 | VOLUME | 657645.043 | 4184227.685 | 11.83 |
| LOCATION | L0000324 | VOLUME | 657633.571 | 4184235.709 | 11.83 |
| LOCATION | L0000325 | VOLUME | 657622.099 | 4184243.734 | 11.84 |
| LOCATION | L0000326 | VOLUME | 657610.627 | 4184251.758 | 11.86 |
| LOCATION | L0000327 | VOLUME | 657599.155 | 4184259.783 | 11.89 |
| LOCATION | L0000328 | VOLUME | 657587.721 | 4184267.861 | 11.87 |
| LOCATION | L0000329 | VOLUME | 657576.306 | 4184275.966 | 11.87 |
| LOCATION | L0000330 | VOLUME | 657564.890 | 4184284.071 | 11.91 |
| LOCATION | L0000331 | VOLUME | 657553.475 | 4184292.176 | 11.93 |
| LOCATION | L0000332 | VOLUME | 657542.060 | 4184300.281 | 11.93 |
| LOCATION | L0000333 | VOLUME | 657530.644 | 4184308.386 | 11.94 |
| LOCATION | L0000334 | VOLUME | 657519.229 | 4184316.491 | 11.94 |
| LOCATION | L0000335 | VOLUME | 657507.814 | 4184324.595 | 11.93 |
| LOCATION | L0000336 | VOLUME | 657496.398 | 4184332.700 | 11.91 |
| LOCATION | L0000337 | VOLUME | 657484.983 | 4184340.805 | 11.90 |
| LOCATION | L0000338 | VOLUME | 657473.567 | 4184348.910 | 11.90 |
| LOCATION | L0000339 | VOLUME | 657462.152 | 4184357.015 | 11.89 |
| LOCATION | L0000340 | VOLUME | 657450.737 | 4184365.120 | 11.87 |
| LOCATION | L0000341 | VOLUME | 657439.321 | 4184373.225 | 11.88 |
| LOCATION | L0000342 | VOLUME | 657427.906 | 4184381.330 | 11.90 |
| LOCATION | L0000343 | VOLUME | 657416.491 | 4184389.435 | 11.88 |
| LOCATION | L0000344 | VOLUME | 657405.075 | 4184397.540 | 11.86 |
| LOCATION | L0000345 | VOLUME | 657393.660 | 4184405.645 | 11.85 |
| LOCATION | L0000346 | VOLUME | 657382.245 | 4184413.749 | 11.80 |
| LOCATION | L0000347 | VOLUME | 657370.829 | 4184421.854 | 11.78 |
| LOCATION | L0000348 | VOLUME | 657359.414 | 4184429.959 | 11.77 |
| LOCATION | L0000349 | VOLUME | 657347.998 | 4184438.064 | 11.75 |
| LOCATION | L0000350 | VOLUME | 657336.583 | 4184446.169 | 11.74 |
| LOCATION | L0000351 | VOLUME | 657325.168 | 4184454.274 | 11.70 |
| LOCATION | L0000352 | VOLUME | 657313.787 | 4184462.427 | 11.65 |
| LOCATION | L0000353 | VOLUME | 657302.483 | 4184470.686 | 11.64 |
| LOCATION | L0000354 | VOLUME | 657291.179 | 4184478.945 | 11.61 |
| LOCATION | L0000355 | VOLUME | 657279.874 | 4184487.205 | 11.56 |
| LOCATION | L0000356 | VOLUME | 657268.570 | 4184495.464 | 11.51 |
| LOCATION | L0000357 | VOLUME | 657257.266 | 4184503.724 | 11.46 |
| LOCATION | L0000358 | VOLUME | 657245.962 | 4184511.983 | 11.41 |
| LOCATION | L0000359 | VOLUME | 657234.658 | 4184520.242 | 11.36 |
| LOCATION | L0000360 | VOLUME | 657223.354 | 4184528.502 | 11.32 |
| LOCATION | L0000361 | VOLUME | 657212.050 | 4184536.761 | 11.27 |
| LOCATION | L0000362 | VOLUME | 657200.746 | 4184545.021 | 11.22 |
| LOCATION | L0000363 | VOLUME | 657189.442 | 4184553.280 | 11.19 |
| LOCATION | L0000364 | VOLUME | 657178.138 | 4184561.540 | 11.16 |
| LOCATION | L0000365 | VOLUME | 657166.834 | 4184569.799 | 11.15 |
| LOCATION | L0000366 | VOLUME | 657155.530 | 4184578.058 | 11.16 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000367 | VOLUME | 657144.226 | 4184586.318 | 11.20 |
| LOCATION | L0000368 | VOLUME | 657132.922 | 4184594.577 | 11.24 |
| LOCATION | L0000369 | VOLUME | 657121.597 | 4184602.808 | 11.25 |
| LOCATION | L0000370 | VOLUME | 657110.145 | 4184610.861 | 11.20 |
| LOCATION | L0000371 | VOLUME | 657098.692 | 4184618.913 | 11.13 |
| LOCATION | L0000372 | VOLUME | 657087.201 | 4184626.896 | 11.06 |
| LOCATION | L0000373 | VOLUME | 657074.386 | 4184632.535 | 11.01 |
| LOCATION | L0000374 | VOLUME | 657061.572 | 4184638.173 | 10.99 |

\*\* End of LINE VOLUME Source ID = SLINE4

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE5

\*\* DESCRSRC Mofatt E 23.92%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00003777

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 9

\*\* 658479.281, 4183595.059, 12.57, 3.49, 6.51

\*\* 658616.498, 4183498.069, 13.21, 3.49, 6.51

\*\* 658728.543, 4183417.367, 13.72, 3.49, 6.51

\*\* 658759.639, 4183394.168, 13.72, 3.49, 6.51

\*\* 658815.088, 4183346.671, 13.74, 3.49, 6.51

\*\* 658970.832, 4183226.264, 14.14, 3.49, 6.51

\*\* 659233.242, 4183042.381, 14.38, 3.49, 6.51

\*\* 660349.854, 4182246.236, 15.56, 3.49, 6.51

\*\* 660339.529, 4182671.036, 14.66, 3.49, 6.51

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000375 | VOLUME | 658484.997 | 4183591.018 | 12.60 |
| LOCATION | L0000376 | VOLUME | 658496.429 | 4183582.938 | 12.69 |
| LOCATION | L0000377 | VOLUME | 658507.862 | 4183574.857 | 12.76 |
| LOCATION | L0000378 | VOLUME | 658519.294 | 4183566.776 | 12.82 |
| LOCATION | L0000379 | VOLUME | 658530.727 | 4183558.695 | 12.88 |
| LOCATION | L0000380 | VOLUME | 658542.159 | 4183550.614 | 12.88 |
| LOCATION | L0000381 | VOLUME | 658553.592 | 4183542.533 | 12.89 |
| LOCATION | L0000382 | VOLUME | 658565.024 | 4183534.453 | 12.99 |
| LOCATION | L0000383 | VOLUME | 658576.456 | 4183526.372 | 13.01 |
| LOCATION | L0000384 | VOLUME | 658587.889 | 4183518.291 | 13.05 |
| LOCATION | L0000385 | VOLUME | 658599.321 | 4183510.210 | 13.13 |
| LOCATION | L0000386 | VOLUME | 658610.754 | 4183502.129 | 13.24 |
| LOCATION | L0000387 | VOLUME | 658622.150 | 4183493.998 | 13.22 |
| LOCATION | L0000388 | VOLUME | 658633.510 | 4183485.816 | 13.28 |
| LOCATION | L0000389 | VOLUME | 658644.870 | 4183477.633 | 13.42 |
| LOCATION | L0000390 | VOLUME | 658656.230 | 4183469.451 | 13.50 |
| LOCATION | L0000391 | VOLUME | 658667.590 | 4183461.269 | 13.48 |
| LOCATION | L0000392 | VOLUME | 658678.950 | 4183453.087 | 13.50 |
| LOCATION | L0000393 | VOLUME | 658690.310 | 4183444.905 | 13.61 |
| LOCATION | L0000394 | VOLUME | 658701.670 | 4183436.722 | 13.58 |
| LOCATION | L0000395 | VOLUME | 658713.031 | 4183428.540 | 13.59 |
| LOCATION | L0000396 | VOLUME | 658724.391 | 4183420.358 | 13.63 |
| LOCATION | L0000397 | VOLUME | 658735.663 | 4183412.055 | 13.78 |
| LOCATION | L0000398 | VOLUME | 658746.884 | 4183403.684 | 13.69 |
| LOCATION | L0000399 | VOLUME | 658758.105 | 4183395.313 | 13.70 |
| LOCATION | L0000400 | VOLUME | 658768.818 | 4183386.305 | 13.77 |
| LOCATION | L0000401 | VOLUME | 658779.451 | 4183377.198 | 13.74 |
| LOCATION | L0000402 | VOLUME | 658790.083 | 4183368.090 | 13.63 |
| LOCATION | L0000403 | VOLUME | 658800.716 | 4183358.982 | 13.65 |
| LOCATION | L0000404 | VOLUME | 658811.348 | 4183349.875 | 13.75 |
| LOCATION | L0000405 | VOLUME | 658822.268 | 4183341.120 | 13.73 |
| LOCATION | L0000406 | VOLUME | 658833.344 | 4183332.557 | 13.77 |
| LOCATION | L0000407 | VOLUME | 658844.420 | 4183323.994 | 13.89 |
| LOCATION | L0000408 | VOLUME | 658855.496 | 4183315.431 | 13.97 |
| LOCATION | L0000409 | VOLUME | 658866.572 | 4183306.868 | 13.97 |
| LOCATION | L0000410 | VOLUME | 658877.648 | 4183298.306 | 14.01 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000411 | VOLUME | 658888.724 | 4183289.743 | 14.45 |
| LOCATION | L0000412 | VOLUME | 658899.800 | 4183281.180 | 15.16 |
| LOCATION | L0000413 | VOLUME | 658910.876 | 4183272.617 | 15.24 |
| LOCATION | L0000414 | VOLUME | 658921.952 | 4183264.054 | 15.25 |
| LOCATION | L0000415 | VOLUME | 658933.028 | 4183255.491 | 15.46 |
| LOCATION | L0000416 | VOLUME | 658944.104 | 4183246.928 | 15.39 |
| LOCATION | L0000417 | VOLUME | 658955.180 | 4183238.365 | 14.78 |
| LOCATION | L0000418 | VOLUME | 658966.255 | 4183229.802 | 14.11 |
| LOCATION | L0000419 | VOLUME | 658977.560 | 4183221.550 | 14.10 |
| LOCATION | L0000420 | VOLUME | 658989.025 | 4183213.515 | 14.12 |
| LOCATION | L0000421 | VOLUME | 659000.490 | 4183205.481 | 14.13 |
| LOCATION | L0000422 | VOLUME | 659011.955 | 4183197.447 | 14.13 |
| LOCATION | L0000423 | VOLUME | 659023.421 | 4183189.413 | 14.14 |
| LOCATION | L0000424 | VOLUME | 659034.886 | 4183181.378 | 14.17 |
| LOCATION | L0000425 | VOLUME | 659046.351 | 4183173.344 | 14.16 |
| LOCATION | L0000426 | VOLUME | 659057.816 | 4183165.310 | 14.14 |
| LOCATION | L0000427 | VOLUME | 659069.282 | 4183157.276 | 14.17 |
| LOCATION | L0000428 | VOLUME | 659080.747 | 4183149.242 | 14.20 |
| LOCATION | L0000429 | VOLUME | 659092.212 | 4183141.207 | 14.20 |
| LOCATION | L0000430 | VOLUME | 659103.677 | 4183133.173 | 14.20 |
| LOCATION | L0000431 | VOLUME | 659115.142 | 4183125.139 | 14.22 |
| LOCATION | L0000432 | VOLUME | 659126.608 | 4183117.105 | 14.26 |
| LOCATION | L0000433 | VOLUME | 659138.073 | 4183109.070 | 14.29 |
| LOCATION | L0000434 | VOLUME | 659149.538 | 4183101.036 | 14.28 |
| LOCATION | L0000435 | VOLUME | 659161.003 | 4183093.002 | 14.30 |
| LOCATION | L0000436 | VOLUME | 659172.468 | 4183084.968 | 14.34 |
| LOCATION | L0000437 | VOLUME | 659183.934 | 4183076.933 | 14.37 |
| LOCATION | L0000438 | VOLUME | 659195.399 | 4183068.899 | 14.35 |
| LOCATION | L0000439 | VOLUME | 659206.864 | 4183060.865 | 14.37 |
| LOCATION | L0000440 | VOLUME | 659218.329 | 4183052.831 | 14.40 |
| LOCATION | L0000441 | VOLUME | 659229.795 | 4183044.797 | 14.39 |
| LOCATION | L0000442 | VOLUME | 659241.214 | 4183036.697 | 14.39 |
| LOCATION | L0000443 | VOLUME | 659252.613 | 4183028.569 | 14.43 |
| LOCATION | L0000444 | VOLUME | 659264.012 | 4183020.442 | 14.46 |
| LOCATION | L0000445 | VOLUME | 659275.411 | 4183012.314 | 14.46 |
| LOCATION | L0000446 | VOLUME | 659286.810 | 4183004.186 | 14.49 |
| LOCATION | L0000447 | VOLUME | 659298.210 | 4182996.059 | 14.56 |
| LOCATION | L0000448 | VOLUME | 659309.609 | 4182987.931 | 14.58 |
| LOCATION | L0000449 | VOLUME | 659321.008 | 4182979.804 | 14.54 |
| LOCATION | L0000450 | VOLUME | 659332.407 | 4182971.676 | 14.60 |
| LOCATION | L0000451 | VOLUME | 659343.806 | 4182963.548 | 14.71 |
| LOCATION | L0000452 | VOLUME | 659355.206 | 4182955.421 | 14.74 |
| LOCATION | L0000453 | VOLUME | 659366.605 | 4182947.293 | 14.77 |
| LOCATION | L0000454 | VOLUME | 659378.004 | 4182939.165 | 14.93 |
| LOCATION | L0000455 | VOLUME | 659389.403 | 4182931.038 | 15.07 |
| LOCATION | L0000456 | VOLUME | 659400.802 | 4182922.910 | 15.07 |
| LOCATION | L0000457 | VOLUME | 659412.202 | 4182914.783 | 15.09 |
| LOCATION | L0000458 | VOLUME | 659423.601 | 4182906.655 | 15.25 |
| LOCATION | L0000459 | VOLUME | 659435.000 | 4182898.527 | 15.37 |
| LOCATION | L0000460 | VOLUME | 659446.399 | 4182890.400 | 15.37 |
| LOCATION | L0000461 | VOLUME | 659457.798 | 4182882.272 | 15.50 |
| LOCATION | L0000462 | VOLUME | 659469.198 | 4182874.144 | 15.68 |
| LOCATION | L0000463 | VOLUME | 659480.597 | 4182866.017 | 15.63 |
| LOCATION | L0000464 | VOLUME | 659491.996 | 4182857.889 | 15.54 |
| LOCATION | L0000465 | VOLUME | 659503.395 | 4182849.761 | 15.61 |
| LOCATION | L0000466 | VOLUME | 659514.794 | 4182841.634 | 15.49 |
| LOCATION | L0000467 | VOLUME | 659526.193 | 4182833.506 | 15.26 |
| LOCATION | L0000468 | VOLUME | 659537.593 | 4182825.379 | 14.94 |
| LOCATION | L0000469 | VOLUME | 659548.992 | 4182817.251 | 14.80 |
| LOCATION | L0000470 | VOLUME | 659560.391 | 4182809.123 | 14.72 |
| LOCATION | L0000471 | VOLUME | 659571.790 | 4182800.996 | 14.56 |
| LOCATION | L0000472 | VOLUME | 659583.189 | 4182792.868 | 14.60 |
| LOCATION | L0000473 | VOLUME | 659594.589 | 4182784.740 | 14.74 |
| LOCATION | L0000474 | VOLUME | 659605.988 | 4182776.613 | 14.70 |
| LOCATION | L0000475 | VOLUME | 659617.387 | 4182768.485 | 14.64 |
| LOCATION | L0000476 | VOLUME | 659628.786 | 4182760.358 | 14.56 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000477 | VOLUME | 659640.185 | 4182752.230 | 14.27 |
| LOCATION | L0000478 | VOLUME | 659651.585 | 4182744.102 | 14.13 |
| LOCATION | L0000479 | VOLUME | 659662.984 | 4182735.975 | 14.09 |
| LOCATION | L0000480 | VOLUME | 659674.383 | 4182727.847 | 14.10 |
| LOCATION | L0000481 | VOLUME | 659685.782 | 4182719.719 | 14.09 |
| LOCATION | L0000482 | VOLUME | 659697.181 | 4182711.592 | 14.03 |
| LOCATION | L0000483 | VOLUME | 659708.581 | 4182703.464 | 14.02 |
| LOCATION | L0000484 | VOLUME | 659719.980 | 4182695.337 | 14.01 |
| LOCATION | L0000485 | VOLUME | 659731.379 | 4182687.209 | 13.97 |
| LOCATION | L0000486 | VOLUME | 659742.778 | 4182679.081 | 13.93 |
| LOCATION | L0000487 | VOLUME | 659754.177 | 4182670.954 | 13.91 |
| LOCATION | L0000488 | VOLUME | 659765.577 | 4182662.826 | 13.93 |
| LOCATION | L0000489 | VOLUME | 659776.976 | 4182654.698 | 13.92 |
| LOCATION | L0000490 | VOLUME | 659788.375 | 4182646.571 | 13.93 |
| LOCATION | L0000491 | VOLUME | 659799.774 | 4182638.443 | 13.94 |
| LOCATION | L0000492 | VOLUME | 659811.173 | 4182630.315 | 13.95 |
| LOCATION | L0000493 | VOLUME | 659822.573 | 4182622.188 | 13.94 |
| LOCATION | L0000494 | VOLUME | 659833.972 | 4182614.060 | 13.91 |
| LOCATION | L0000495 | VOLUME | 659845.371 | 4182605.933 | 13.90 |
| LOCATION | L0000496 | VOLUME | 659856.770 | 4182597.805 | 13.91 |
| LOCATION | L0000497 | VOLUME | 659868.169 | 4182589.677 | 13.94 |
| LOCATION | L0000498 | VOLUME | 659879.568 | 4182581.550 | 13.93 |
| LOCATION | L0000499 | VOLUME | 659890.968 | 4182573.422 | 13.89 |
| LOCATION | L0000500 | VOLUME | 659902.367 | 4182565.294 | 13.91 |
| LOCATION | L0000501 | VOLUME | 659913.766 | 4182557.167 | 13.89 |
| LOCATION | L0000502 | VOLUME | 659925.165 | 4182549.039 | 13.90 |
| LOCATION | L0000503 | VOLUME | 659936.564 | 4182540.912 | 13.92 |
| LOCATION | L0000504 | VOLUME | 659947.964 | 4182532.784 | 13.92 |
| LOCATION | L0000505 | VOLUME | 659959.363 | 4182524.656 | 13.94 |
| LOCATION | L0000506 | VOLUME | 659970.762 | 4182516.529 | 13.97 |
| LOCATION | L0000507 | VOLUME | 659982.161 | 4182508.401 | 14.07 |
| LOCATION | L0000508 | VOLUME | 659993.560 | 4182500.273 | 14.15 |
| LOCATION | L0000509 | VOLUME | 660004.960 | 4182492.146 | 14.18 |
| LOCATION | L0000510 | VOLUME | 660016.359 | 4182484.018 | 14.15 |
| LOCATION | L0000511 | VOLUME | 660027.758 | 4182475.890 | 14.09 |
| LOCATION | L0000512 | VOLUME | 660039.157 | 4182467.763 | 14.13 |
| LOCATION | L0000513 | VOLUME | 660050.556 | 4182459.635 | 14.11 |
| LOCATION | L0000514 | VOLUME | 660061.956 | 4182451.508 | 14.11 |
| LOCATION | L0000515 | VOLUME | 660073.355 | 4182443.380 | 14.16 |
| LOCATION | L0000516 | VOLUME | 660084.754 | 4182435.252 | 14.19 |
| LOCATION | L0000517 | VOLUME | 660096.153 | 4182427.125 | 14.19 |
| LOCATION | L0000518 | VOLUME | 660107.552 | 4182418.997 | 14.21 |
| LOCATION | L0000519 | VOLUME | 660118.952 | 4182410.869 | 14.26 |
| LOCATION | L0000520 | VOLUME | 660130.351 | 4182402.742 | 14.29 |
| LOCATION | L0000521 | VOLUME | 660141.750 | 4182394.614 | 14.31 |
| LOCATION | L0000522 | VOLUME | 660153.149 | 4182386.487 | 14.32 |
| LOCATION | L0000523 | VOLUME | 660164.548 | 4182378.359 | 14.34 |
| LOCATION | L0000524 | VOLUME | 660175.948 | 4182370.231 | 14.33 |
| LOCATION | L0000525 | VOLUME | 660187.347 | 4182362.104 | 14.23 |
| LOCATION | L0000526 | VOLUME | 660198.746 | 4182353.976 | 14.20 |
| LOCATION | L0000527 | VOLUME | 660210.145 | 4182345.848 | 14.10 |
| LOCATION | L0000528 | VOLUME | 660221.544 | 4182337.721 | 14.16 |
| LOCATION | L0000529 | VOLUME | 660232.944 | 4182329.593 | 14.28 |
| LOCATION | L0000530 | VOLUME | 660244.343 | 4182321.466 | 14.27 |
| LOCATION | L0000531 | VOLUME | 660255.742 | 4182313.338 | 14.15 |
| LOCATION | L0000532 | VOLUME | 660267.141 | 4182305.210 | 14.12 |
| LOCATION | L0000533 | VOLUME | 660278.540 | 4182297.083 | 14.07 |
| LOCATION | L0000534 | VOLUME | 660289.939 | 4182288.955 | 13.96 |
| LOCATION | L0000535 | VOLUME | 660301.339 | 4182280.827 | 14.09 |
| LOCATION | L0000536 | VOLUME | 660312.738 | 4182272.700 | 14.37 |
| LOCATION | L0000537 | VOLUME | 660324.137 | 4182264.572 | 14.38 |
| LOCATION | L0000538 | VOLUME | 660335.536 | 4182256.444 | 15.02 |
| LOCATION | L0000539 | VOLUME | 660346.935 | 4182248.317 | 15.52 |
| LOCATION | L0000540 | VOLUME | 660349.600 | 4182256.649 | 15.69 |
| LOCATION | L0000541 | VOLUME | 660349.260 | 4182270.645 | 15.81 |
| LOCATION | L0000542 | VOLUME | 660348.920 | 4182284.641 | 15.94 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000543 | VOLUME | 660348.580 | 4182298.637 | 16.08 |
| LOCATION | L0000544 | VOLUME | 660348.240 | 4182312.633 | 15.96 |
| LOCATION | L0000545 | VOLUME | 660347.900 | 4182326.629 | 15.67 |
| LOCATION | L0000546 | VOLUME | 660347.559 | 4182340.624 | 15.34 |
| LOCATION | L0000547 | VOLUME | 660347.219 | 4182354.620 | 14.96 |
| LOCATION | L0000548 | VOLUME | 660346.879 | 4182368.616 | 14.74 |
| LOCATION | L0000549 | VOLUME | 660346.539 | 4182382.612 | 15.21 |
| LOCATION | L0000550 | VOLUME | 660346.199 | 4182396.608 | 15.68 |
| LOCATION | L0000551 | VOLUME | 660345.859 | 4182410.604 | 16.25 |
| LOCATION | L0000552 | VOLUME | 660345.518 | 4182424.600 | 16.83 |
| LOCATION | L0000553 | VOLUME | 660345.178 | 4182438.596 | 16.62 |
| LOCATION | L0000554 | VOLUME | 660344.838 | 4182452.591 | 16.21 |
| LOCATION | L0000555 | VOLUME | 660344.498 | 4182466.587 | 15.97 |
| LOCATION | L0000556 | VOLUME | 660344.158 | 4182480.583 | 15.84 |
| LOCATION | L0000557 | VOLUME | 660343.817 | 4182494.579 | 15.69 |
| LOCATION | L0000558 | VOLUME | 660343.477 | 4182508.575 | 15.51 |
| LOCATION | L0000559 | VOLUME | 660343.137 | 4182522.571 | 15.29 |
| LOCATION | L0000560 | VOLUME | 660342.797 | 4182536.567 | 14.89 |
| LOCATION | L0000561 | VOLUME | 660342.457 | 4182550.562 | 14.49 |
| LOCATION | L0000562 | VOLUME | 660342.117 | 4182564.558 | 14.40 |
| LOCATION | L0000563 | VOLUME | 660341.776 | 4182578.554 | 14.32 |
| LOCATION | L0000564 | VOLUME | 660341.436 | 4182592.550 | 14.29 |
| LOCATION | L0000565 | VOLUME | 660341.096 | 4182606.546 | 14.28 |
| LOCATION | L0000566 | VOLUME | 660340.756 | 4182620.542 | 14.33 |
| LOCATION | L0000567 | VOLUME | 660340.416 | 4182634.538 | 14.40 |
| LOCATION | L0000568 | VOLUME | 660340.076 | 4182648.534 | 14.49 |
| LOCATION | L0000569 | VOLUME | 660339.735 | 4182662.529 | 14.58 |

\*\* End of LINE VOLUME Source ID = SLINE5

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE6

\*\* DESCRSRC Spreckels N 28.89%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001102

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 10

\*\* 658772.612, 4184225.561, 13.02, 3.49, 6.51

\*\* 658768.776, 4184260.085, 12.95, 3.49, 6.51

\*\* 658753.432, 4184316.666, 13.13, 3.49, 6.51

\*\* 658716.030, 4184401.059, 12.64, 3.49, 6.51

\*\* 658689.658, 4184454.764, 12.75, 3.49, 6.51

\*\* 658671.916, 4184511.345, 12.75, 3.49, 6.51

\*\* 658660.408, 4184564.091, 12.47, 3.49, 6.51

\*\* 658658.010, 4184589.504, 12.49, 3.49, 6.51

\*\* 658649.859, 4184721.368, 12.35, 3.49, 6.51

\*\* 658639.310, 4184864.261, 13.14, 3.49, 6.51

\*\*

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000570 | VOLUME | 658771.839 | 4184232.518 | 12.95 |
| LOCATION | L0000571 | VOLUME | 658770.293 | 4184246.432 | 12.93 |
| LOCATION | L0000572 | VOLUME | 658768.707 | 4184260.339 | 12.90 |
| LOCATION | L0000573 | VOLUME | 658765.043 | 4184273.851 | 12.94 |
| LOCATION | L0000574 | VOLUME | 658761.379 | 4184287.363 | 13.00 |
| LOCATION | L0000575 | VOLUME | 658757.714 | 4184300.875 | 13.04 |
| LOCATION | L0000576 | VOLUME | 658754.050 | 4184314.387 | 13.07 |
| LOCATION | L0000577 | VOLUME | 658748.716 | 4184327.306 | 13.04 |
| LOCATION | L0000578 | VOLUME | 658743.044 | 4184340.106 | 12.90 |
| LOCATION | L0000579 | VOLUME | 658737.371 | 4184352.905 | 12.93 |
| LOCATION | L0000580 | VOLUME | 658731.699 | 4184365.704 | 12.91 |
| LOCATION | L0000581 | VOLUME | 658726.027 | 4184378.504 | 12.88 |
| LOCATION | L0000582 | VOLUME | 658720.354 | 4184391.303 | 12.77 |
| LOCATION | L0000583 | VOLUME | 658714.563 | 4184404.047 | 12.67 |
| LOCATION | L0000584 | VOLUME | 658708.392 | 4184416.614 | 12.72 |
| LOCATION | L0000585 | VOLUME | 658702.221 | 4184429.180 | 12.73 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000586 | VOLUME | 658696.050 | 4184441.747 | 12.75 |
| LOCATION | L0000587 | VOLUME | 658689.879 | 4184454.313 | 12.73 |
| LOCATION | L0000588 | VOLUME | 658685.619 | 4184467.644 | 12.78 |
| LOCATION | L0000589 | VOLUME | 658681.430 | 4184481.002 | 12.83 |
| LOCATION | L0000590 | VOLUME | 658677.242 | 4184494.361 | 12.85 |
| LOCATION | L0000591 | VOLUME | 658673.053 | 4184507.720 | 12.81 |
| LOCATION | L0000592 | VOLUME | 658669.742 | 4184521.311 | 12.74 |
| LOCATION | L0000593 | VOLUME | 658666.757 | 4184534.989 | 12.62 |
| LOCATION | L0000594 | VOLUME | 658663.773 | 4184548.668 | 12.48 |
| LOCATION | L0000595 | VOLUME | 658660.789 | 4184562.346 | 12.44 |
| LOCATION | L0000596 | VOLUME | 658659.261 | 4184576.251 | 12.46 |
| LOCATION | L0000597 | VOLUME | 658657.968 | 4184590.191 | 12.47 |
| LOCATION | L0000598 | VOLUME | 658657.104 | 4184604.164 | 12.46 |
| LOCATION | L0000599 | VOLUME | 658656.240 | 4184618.137 | 12.45 |
| LOCATION | L0000600 | VOLUME | 658655.377 | 4184632.111 | 12.44 |
| LOCATION | L0000601 | VOLUME | 658654.513 | 4184646.084 | 12.44 |
| LOCATION | L0000602 | VOLUME | 658653.649 | 4184660.057 | 12.38 |
| LOCATION | L0000603 | VOLUME | 658652.785 | 4184674.030 | 12.30 |
| LOCATION | L0000604 | VOLUME | 658651.921 | 4184688.004 | 12.29 |
| LOCATION | L0000605 | VOLUME | 658651.058 | 4184701.977 | 12.29 |
| LOCATION | L0000606 | VOLUME | 658650.194 | 4184715.950 | 12.35 |
| LOCATION | L0000607 | VOLUME | 658649.228 | 4184729.917 | 12.44 |
| LOCATION | L0000608 | VOLUME | 658648.197 | 4184743.879 | 12.54 |
| LOCATION | L0000609 | VOLUME | 658647.166 | 4184757.841 | 12.62 |
| LOCATION | L0000610 | VOLUME | 658646.135 | 4184771.803 | 12.70 |
| LOCATION | L0000611 | VOLUME | 658645.105 | 4184785.765 | 12.71 |
| LOCATION | L0000612 | VOLUME | 658644.074 | 4184799.727 | 12.73 |
| LOCATION | L0000613 | VOLUME | 658643.043 | 4184813.689 | 12.84 |
| LOCATION | L0000614 | VOLUME | 658642.012 | 4184827.651 | 12.95 |
| LOCATION | L0000615 | VOLUME | 658640.982 | 4184841.613 | 13.04 |
| LOCATION | L0000616 | VOLUME | 658639.951 | 4184855.575 | 13.12 |

\*\* End of LINE VOLUME Source ID = SLINE6

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE7

\*\* DESCRSRC Yosemite W 3.4%

\*\* PREFIX

\*\* Length of Side = 14.00

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.156E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 6

\*\* 658639.573, 4184872.135, 13.12, 3.49, 6.51

\*\* 658211.310, 4184859.764, 12.14, 3.49, 6.51

\*\* 658112.344, 4184857.408, 11.88, 3.49, 6.51

\*\* 657441.059, 4184844.749, 12.21, 3.49, 6.51

\*\* 657113.526, 4184837.183, 11.71, 3.49, 6.51

\*\* 657034.187, 4184834.555, 11.56, 3.49, 6.51

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000617 | VOLUME | 658632.575 | 4184871.932 | 13.12 |
| LOCATION | L0000618 | VOLUME | 658618.581 | 4184871.528 | 13.05 |
| LOCATION | L0000619 | VOLUME | 658604.587 | 4184871.124 | 12.96 |
| LOCATION | L0000620 | VOLUME | 658590.593 | 4184870.720 | 12.83 |
| LOCATION | L0000621 | VOLUME | 658576.599 | 4184870.316 | 12.71 |
| LOCATION | L0000622 | VOLUME | 658562.605 | 4184869.911 | 12.60 |
| LOCATION | L0000623 | VOLUME | 658548.610 | 4184869.507 | 12.47 |
| LOCATION | L0000624 | VOLUME | 658534.616 | 4184869.103 | 12.36 |
| LOCATION | L0000625 | VOLUME | 658520.622 | 4184868.699 | 12.33 |
| LOCATION | L0000626 | VOLUME | 658506.628 | 4184868.294 | 12.29 |
| LOCATION | L0000627 | VOLUME | 658492.634 | 4184867.890 | 12.22 |
| LOCATION | L0000628 | VOLUME | 658478.640 | 4184867.486 | 12.15 |
| LOCATION | L0000629 | VOLUME | 658464.646 | 4184867.082 | 12.08 |
| LOCATION | L0000630 | VOLUME | 658450.651 | 4184866.677 | 12.10 |
| LOCATION | L0000631 | VOLUME | 658436.657 | 4184866.273 | 12.12 |
| LOCATION | L0000632 | VOLUME | 658422.663 | 4184865.869 | 12.12 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000633 | VOLUME | 658408.669 | 4184865.465 | 12.11 |
| LOCATION | L0000634 | VOLUME | 658394.675 | 4184865.061 | 12.08 |
| LOCATION | L0000635 | VOLUME | 658380.681 | 4184864.656 | 12.08 |
| LOCATION | L0000636 | VOLUME | 658366.686 | 4184864.252 | 12.10 |
| LOCATION | L0000637 | VOLUME | 658352.692 | 4184863.848 | 12.09 |
| LOCATION | L0000638 | VOLUME | 658338.698 | 4184863.444 | 12.08 |
| LOCATION | L0000639 | VOLUME | 658324.704 | 4184863.039 | 12.06 |
| LOCATION | L0000640 | VOLUME | 658310.710 | 4184862.635 | 12.02 |
| LOCATION | L0000641 | VOLUME | 658296.716 | 4184862.231 | 11.98 |
| LOCATION | L0000642 | VOLUME | 658282.721 | 4184861.827 | 11.99 |
| LOCATION | L0000643 | VOLUME | 658268.727 | 4184861.422 | 12.03 |
| LOCATION | L0000644 | VOLUME | 658254.733 | 4184861.018 | 12.10 |
| LOCATION | L0000645 | VOLUME | 658240.739 | 4184860.614 | 12.16 |
| LOCATION | L0000646 | VOLUME | 658226.745 | 4184860.210 | 12.16 |
| LOCATION | L0000647 | VOLUME | 658212.751 | 4184859.806 | 12.16 |
| LOCATION | L0000648 | VOLUME | 658198.755 | 4184859.465 | 12.16 |
| LOCATION | L0000649 | VOLUME | 658184.759 | 4184859.132 | 12.15 |
| LOCATION | L0000650 | VOLUME | 658170.763 | 4184858.798 | 12.14 |
| LOCATION | L0000651 | VOLUME | 658156.767 | 4184858.465 | 12.06 |
| LOCATION | L0000652 | VOLUME | 658142.771 | 4184858.132 | 11.97 |
| LOCATION | L0000653 | VOLUME | 658128.775 | 4184857.799 | 11.90 |
| LOCATION | L0000654 | VOLUME | 658114.779 | 4184857.466 | 11.85 |
| LOCATION | L0000655 | VOLUME | 658100.781 | 4184857.190 | 11.84 |
| LOCATION | L0000656 | VOLUME | 658086.784 | 4184856.926 | 11.86 |
| LOCATION | L0000657 | VOLUME | 658072.786 | 4184856.662 | 11.88 |
| LOCATION | L0000658 | VOLUME | 658058.789 | 4184856.398 | 11.93 |
| LOCATION | L0000659 | VOLUME | 658044.791 | 4184856.134 | 11.98 |
| LOCATION | L0000660 | VOLUME | 658030.794 | 4184855.870 | 12.06 |
| LOCATION | L0000661 | VOLUME | 658016.796 | 4184855.606 | 12.12 |
| LOCATION | L0000662 | VOLUME | 658002.799 | 4184855.342 | 12.14 |
| LOCATION | L0000663 | VOLUME | 657988.801 | 4184855.078 | 12.14 |
| LOCATION | L0000664 | VOLUME | 657974.804 | 4184854.814 | 12.14 |
| LOCATION | L0000665 | VOLUME | 657960.806 | 4184854.550 | 12.15 |
| LOCATION | L0000666 | VOLUME | 657946.809 | 4184854.286 | 12.15 |
| LOCATION | L0000667 | VOLUME | 657932.811 | 4184854.022 | 12.14 |
| LOCATION | L0000668 | VOLUME | 657918.814 | 4184853.758 | 12.12 |
| LOCATION | L0000669 | VOLUME | 657904.816 | 4184853.494 | 12.09 |
| LOCATION | L0000670 | VOLUME | 657890.819 | 4184853.230 | 12.04 |
| LOCATION | L0000671 | VOLUME | 657876.821 | 4184852.966 | 11.97 |
| LOCATION | L0000672 | VOLUME | 657862.824 | 4184852.702 | 11.94 |
| LOCATION | L0000673 | VOLUME | 657848.826 | 4184852.438 | 11.92 |
| LOCATION | L0000674 | VOLUME | 657834.829 | 4184852.175 | 11.88 |
| LOCATION | L0000675 | VOLUME | 657820.831 | 4184851.911 | 11.82 |
| LOCATION | L0000676 | VOLUME | 657806.834 | 4184851.647 | 11.75 |
| LOCATION | L0000677 | VOLUME | 657792.836 | 4184851.383 | 11.69 |
| LOCATION | L0000678 | VOLUME | 657778.839 | 4184851.119 | 11.63 |
| LOCATION | L0000679 | VOLUME | 657764.841 | 4184850.855 | 11.63 |
| LOCATION | L0000680 | VOLUME | 657750.843 | 4184850.591 | 11.64 |
| LOCATION | L0000681 | VOLUME | 657736.846 | 4184850.327 | 11.69 |
| LOCATION | L0000682 | VOLUME | 657722.848 | 4184850.063 | 11.77 |
| LOCATION | L0000683 | VOLUME | 657708.851 | 4184849.799 | 11.87 |
| LOCATION | L0000684 | VOLUME | 657694.853 | 4184849.535 | 12.00 |
| LOCATION | L0000685 | VOLUME | 657680.856 | 4184849.271 | 12.14 |
| LOCATION | L0000686 | VOLUME | 657666.858 | 4184849.007 | 12.29 |
| LOCATION | L0000687 | VOLUME | 657652.861 | 4184848.743 | 12.43 |
| LOCATION | L0000688 | VOLUME | 657638.863 | 4184848.479 | 12.54 |
| LOCATION | L0000689 | VOLUME | 657624.866 | 4184848.215 | 12.63 |
| LOCATION | L0000690 | VOLUME | 657610.868 | 4184847.951 | 12.70 |
| LOCATION | L0000691 | VOLUME | 657596.871 | 4184847.687 | 12.72 |
| LOCATION | L0000692 | VOLUME | 657582.873 | 4184847.423 | 12.73 |
| LOCATION | L0000693 | VOLUME | 657568.876 | 4184847.160 | 12.63 |
| LOCATION | L0000694 | VOLUME | 657554.878 | 4184846.896 | 12.53 |
| LOCATION | L0000695 | VOLUME | 657540.881 | 4184846.632 | 12.47 |
| LOCATION | L0000696 | VOLUME | 657526.883 | 4184846.368 | 12.41 |
| LOCATION | L0000697 | VOLUME | 657512.886 | 4184846.104 | 12.36 |
| LOCATION | L0000698 | VOLUME | 657498.888 | 4184845.840 | 12.32 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000699 | VOLUME | 657484.891 | 4184845.576 | 12.28 |
| LOCATION | L0000700 | VOLUME | 657470.893 | 4184845.312 | 12.25 |
| LOCATION | L0000701 | VOLUME | 657456.896 | 4184845.048 | 12.23 |
| LOCATION | L0000702 | VOLUME | 657442.898 | 4184844.784 | 12.22 |
| LOCATION | L0000703 | VOLUME | 657428.902 | 4184844.468 | 12.19 |
| LOCATION | L0000704 | VOLUME | 657414.906 | 4184844.145 | 12.16 |
| LOCATION | L0000705 | VOLUME | 657400.909 | 4184843.822 | 12.16 |
| LOCATION | L0000706 | VOLUME | 657386.913 | 4184843.498 | 12.16 |
| LOCATION | L0000707 | VOLUME | 657372.917 | 4184843.175 | 12.07 |
| LOCATION | L0000708 | VOLUME | 657358.920 | 4184842.852 | 11.99 |
| LOCATION | L0000709 | VOLUME | 657344.924 | 4184842.528 | 11.96 |
| LOCATION | L0000710 | VOLUME | 657330.928 | 4184842.205 | 11.94 |
| LOCATION | L0000711 | VOLUME | 657316.932 | 4184841.882 | 11.93 |
| LOCATION | L0000712 | VOLUME | 657302.935 | 4184841.558 | 11.92 |
| LOCATION | L0000713 | VOLUME | 657288.939 | 4184841.235 | 11.90 |
| LOCATION | L0000714 | VOLUME | 657274.943 | 4184840.912 | 11.89 |
| LOCATION | L0000715 | VOLUME | 657260.947 | 4184840.588 | 11.88 |
| LOCATION | L0000716 | VOLUME | 657246.950 | 4184840.265 | 11.86 |
| LOCATION | L0000717 | VOLUME | 657232.954 | 4184839.942 | 11.85 |
| LOCATION | L0000718 | VOLUME | 657218.958 | 4184839.618 | 11.83 |
| LOCATION | L0000719 | VOLUME | 657204.962 | 4184839.295 | 11.81 |
| LOCATION | L0000720 | VOLUME | 657190.965 | 4184838.972 | 11.79 |
| LOCATION | L0000721 | VOLUME | 657176.969 | 4184838.648 | 11.78 |
| LOCATION | L0000722 | VOLUME | 657162.973 | 4184838.325 | 11.76 |
| LOCATION | L0000723 | VOLUME | 657148.977 | 4184838.002 | 11.75 |
| LOCATION | L0000724 | VOLUME | 657134.980 | 4184837.678 | 11.73 |
| LOCATION | L0000725 | VOLUME | 657120.984 | 4184837.355 | 11.72 |
| LOCATION | L0000726 | VOLUME | 657106.990 | 4184836.966 | 11.70 |
| LOCATION | L0000727 | VOLUME | 657092.997 | 4184836.503 | 11.67 |
| LOCATION | L0000728 | VOLUME | 657079.005 | 4184836.039 | 11.65 |
| LOCATION | L0000729 | VOLUME | 657065.013 | 4184835.576 | 11.63 |
| LOCATION | L0000730 | VOLUME | 657051.020 | 4184835.113 | 11.59 |
| LOCATION | L0000731 | VOLUME | 657037.028 | 4184834.649 | 11.56 |

```

** End of LINE VOLUME Source ID = SLINE7
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Yosemite E 24.22%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 9.651E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 658644.130, 4184872.122, 13.12, 3.49, 6.51
** 659056.505, 4184880.713, 13.12, 3.49, 6.51
** 659238.481, 4184890.866, 14.89, 3.49, 6.51
** 659332.984, 4184893.990, 13.61, 3.49, 6.51
** -----

```

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000732 | VOLUME | 658651.128 | 4184872.267 | 13.11 |
| LOCATION | L0000733 | VOLUME | 658665.125 | 4184872.559 | 13.11 |
| LOCATION | L0000734 | VOLUME | 658679.122 | 4184872.851 | 13.14 |
| LOCATION | L0000735 | VOLUME | 658693.119 | 4184873.142 | 13.12 |
| LOCATION | L0000736 | VOLUME | 658707.116 | 4184873.434 | 13.08 |
| LOCATION | L0000737 | VOLUME | 658721.113 | 4184873.725 | 13.07 |
| LOCATION | L0000738 | VOLUME | 658735.110 | 4184874.017 | 13.07 |
| LOCATION | L0000739 | VOLUME | 658749.107 | 4184874.309 | 13.06 |
| LOCATION | L0000740 | VOLUME | 658763.104 | 4184874.600 | 13.06 |
| LOCATION | L0000741 | VOLUME | 658777.101 | 4184874.892 | 13.05 |
| LOCATION | L0000742 | VOLUME | 658791.098 | 4184875.183 | 13.00 |
| LOCATION | L0000743 | VOLUME | 658805.095 | 4184875.475 | 12.92 |
| LOCATION | L0000744 | VOLUME | 658819.092 | 4184875.767 | 12.84 |
| LOCATION | L0000745 | VOLUME | 658833.089 | 4184876.058 | 12.77 |
| LOCATION | L0000746 | VOLUME | 658847.086 | 4184876.350 | 12.78 |
| LOCATION | L0000747 | VOLUME | 658861.083 | 4184876.641 | 12.79 |



|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000748 | VOLUME | 658875.080 | 4184876.933 | 12.82 |
| LOCATION | L0000749 | VOLUME | 658889.076 | 4184877.225 | 12.89 |
| LOCATION | L0000750 | VOLUME | 658903.073 | 4184877.516 | 12.98 |
| LOCATION | L0000751 | VOLUME | 658917.070 | 4184877.808 | 13.04 |
| LOCATION | L0000752 | VOLUME | 658931.067 | 4184878.099 | 13.08 |
| LOCATION | L0000753 | VOLUME | 658945.064 | 4184878.391 | 13.08 |
| LOCATION | L0000754 | VOLUME | 658959.061 | 4184878.683 | 13.08 |
| LOCATION | L0000755 | VOLUME | 658973.058 | 4184878.974 | 13.08 |
| LOCATION | L0000756 | VOLUME | 658987.055 | 4184879.266 | 13.12 |
| LOCATION | L0000757 | VOLUME | 659001.052 | 4184879.557 | 13.16 |
| LOCATION | L0000758 | VOLUME | 659015.049 | 4184879.849 | 13.14 |
| LOCATION | L0000759 | VOLUME | 659029.046 | 4184880.141 | 13.12 |
| LOCATION | L0000760 | VOLUME | 659043.043 | 4184880.432 | 13.11 |
| LOCATION | L0000761 | VOLUME | 659057.039 | 4184880.742 | 13.14 |
| LOCATION | L0000762 | VOLUME | 659071.018 | 4184881.522 | 13.19 |
| LOCATION | L0000763 | VOLUME | 659084.996 | 4184882.302 | 13.23 |
| LOCATION | L0000764 | VOLUME | 659098.974 | 4184883.082 | 13.26 |
| LOCATION | L0000765 | VOLUME | 659112.952 | 4184883.862 | 13.31 |
| LOCATION | L0000766 | VOLUME | 659126.931 | 4184884.642 | 13.37 |
| LOCATION | L0000767 | VOLUME | 659140.909 | 4184885.422 | 13.43 |
| LOCATION | L0000768 | VOLUME | 659154.887 | 4184886.202 | 13.47 |
| LOCATION | L0000769 | VOLUME | 659168.865 | 4184886.982 | 13.51 |
| LOCATION | L0000770 | VOLUME | 659182.844 | 4184887.762 | 13.44 |
| LOCATION | L0000771 | VOLUME | 659196.822 | 4184888.542 | 13.34 |
| LOCATION | L0000772 | VOLUME | 659210.800 | 4184889.321 | 13.61 |
| LOCATION | L0000773 | VOLUME | 659224.778 | 4184890.101 | 13.97 |
| LOCATION | L0000774 | VOLUME | 659238.757 | 4184890.875 | 14.61 |
| LOCATION | L0000775 | VOLUME | 659252.749 | 4184891.338 | 14.74 |
| LOCATION | L0000776 | VOLUME | 659266.742 | 4184891.800 | 14.38 |
| LOCATION | L0000777 | VOLUME | 659280.734 | 4184892.263 | 13.88 |
| LOCATION | L0000778 | VOLUME | 659294.726 | 4184892.725 | 13.33 |
| LOCATION | L0000779 | VOLUME | 659308.719 | 4184893.188 | 13.45 |
| LOCATION | L0000780 | VOLUME | 659322.711 | 4184893.650 | 13.54 |

\*\* End of LINE VOLUME Source ID = SLINE8

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE9

\*\* DESCRSRC Spreckels N 1.27%

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 2.88E-07

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 4

\*\* 658638.947, 4184879.523, 13.10, 3.49, 4.00

\*\* 658625.429, 4185063.914, 12.73, 3.49, 4.00

\*\* 658618.497, 4185164.427, 12.90, 3.49, 4.00

\*\* 658612.567, 4185270.924, 13.09, 3.49, 4.00

\*\* -----

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000781 | VOLUME | 658638.633 | 4184883.806 | 13.09 |
| LOCATION | L0000782 | VOLUME | 658638.005 | 4184892.373 | 13.07 |
| LOCATION | L0000783 | VOLUME | 658637.377 | 4184900.940 | 13.05 |
| LOCATION | L0000784 | VOLUME | 658636.749 | 4184909.508 | 13.02 |
| LOCATION | L0000785 | VOLUME | 658636.121 | 4184918.075 | 13.00 |
| LOCATION | L0000786 | VOLUME | 658635.493 | 4184926.642 | 12.96 |
| LOCATION | L0000787 | VOLUME | 658634.865 | 4184935.209 | 12.89 |
| LOCATION | L0000788 | VOLUME | 658634.237 | 4184943.776 | 12.82 |
| LOCATION | L0000789 | VOLUME | 658633.609 | 4184952.343 | 12.75 |
| LOCATION | L0000790 | VOLUME | 658632.981 | 4184960.910 | 12.71 |
| LOCATION | L0000791 | VOLUME | 658632.352 | 4184969.477 | 12.67 |
| LOCATION | L0000792 | VOLUME | 658631.724 | 4184978.044 | 12.63 |
| LOCATION | L0000793 | VOLUME | 658631.096 | 4184986.611 | 12.61 |
| LOCATION | L0000794 | VOLUME | 658630.468 | 4184995.178 | 12.64 |
| LOCATION | L0000795 | VOLUME | 658629.840 | 4185003.745 | 12.67 |
| LOCATION | L0000796 | VOLUME | 658629.212 | 4185012.312 | 12.69 |

|          |          |        |            |             |       |
|----------|----------|--------|------------|-------------|-------|
| LOCATION | L0000797 | VOLUME | 658628.584 | 4185020.879 | 12.71 |
| LOCATION | L0000798 | VOLUME | 658627.956 | 4185029.446 | 12.73 |
| LOCATION | L0000799 | VOLUME | 658627.328 | 4185038.013 | 12.74 |
| LOCATION | L0000800 | VOLUME | 658626.700 | 4185046.580 | 12.75 |
| LOCATION | L0000801 | VOLUME | 658626.072 | 4185055.147 | 12.73 |
| LOCATION | L0000802 | VOLUME | 658625.444 | 4185063.714 | 12.71 |
| LOCATION | L0000803 | VOLUME | 658624.852 | 4185072.283 | 12.68 |
| LOCATION | L0000804 | VOLUME | 658624.261 | 4185080.853 | 12.69 |
| LOCATION | L0000805 | VOLUME | 658623.670 | 4185089.423 | 12.72 |
| LOCATION | L0000806 | VOLUME | 658623.079 | 4185097.992 | 12.75 |
| LOCATION | L0000807 | VOLUME | 658622.488 | 4185106.562 | 12.79 |
| LOCATION | L0000808 | VOLUME | 658621.897 | 4185115.132 | 12.81 |
| LOCATION | L0000809 | VOLUME | 658621.306 | 4185123.701 | 12.82 |
| LOCATION | L0000810 | VOLUME | 658620.715 | 4185132.271 | 12.84 |
| LOCATION | L0000811 | VOLUME | 658620.124 | 4185140.840 | 12.86 |
| LOCATION | L0000812 | VOLUME | 658619.533 | 4185149.410 | 12.88 |
| LOCATION | L0000813 | VOLUME | 658618.942 | 4185157.980 | 12.90 |
| LOCATION | L0000814 | VOLUME | 658618.379 | 4185166.551 | 12.93 |
| LOCATION | L0000815 | VOLUME | 658617.902 | 4185175.128 | 12.95 |
| LOCATION | L0000816 | VOLUME | 658617.424 | 4185183.705 | 12.97 |
| LOCATION | L0000817 | VOLUME | 658616.946 | 4185192.281 | 12.99 |
| LOCATION | L0000818 | VOLUME | 658616.469 | 4185200.858 | 13.01 |
| LOCATION | L0000819 | VOLUME | 658615.991 | 4185209.435 | 13.03 |
| LOCATION | L0000820 | VOLUME | 658615.513 | 4185218.011 | 13.05 |
| LOCATION | L0000821 | VOLUME | 658615.036 | 4185226.588 | 13.07 |
| LOCATION | L0000822 | VOLUME | 658614.558 | 4185235.165 | 13.07 |
| LOCATION | L0000823 | VOLUME | 658614.081 | 4185243.742 | 13.07 |
| LOCATION | L0000824 | VOLUME | 658613.603 | 4185252.318 | 13.06 |
| LOCATION | L0000825 | VOLUME | 658613.125 | 4185260.895 | 13.05 |
| LOCATION | L0000826 | VOLUME | 658612.648 | 4185269.472 | 13.08 |

\*\* End of LINE VOLUME Source ID = SLINE9

\*\* Source Parameters \*\*

|          |        |            |       |         |       |     |
|----------|--------|------------|-------|---------|-------|-----|
| SRCPARAM | IDLE1  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE2  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE3  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE4  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE5  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE6  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE7  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE8  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE9  | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE10 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE11 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE12 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE13 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE14 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE15 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE16 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE17 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE18 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE19 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE20 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE21 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE22 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE23 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE24 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE25 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE26 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE27 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE28 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE29 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE30 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE31 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE32 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE33 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |
| SRCPARAM | IDLE34 | 8.4776E-07 | 3.840 | 366.000 | 51.71 | 0.1 |

[illegible]

[illegible]

|                                   |          |              |       |         |        |      |
|-----------------------------------|----------|--------------|-------|---------|--------|------|
| SRCPARAM                          | TTP75    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP76    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP77    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP78    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP79    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP80    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP81    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP82    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| SRCPARAM                          | TTP83    | 1.5661E-07   | 3.840 | 366.000 | 51.71  | 0.1  |
| ** LINE VOLUME Source ID = SLINE1 |          |              |       |         |        |      |
| SRCPARAM                          | L0000001 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000002 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000003 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000004 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000005 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000006 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000007 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000008 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000009 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000010 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000011 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000012 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000013 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000014 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000015 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000016 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000017 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000018 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000019 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000020 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000021 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000022 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000023 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000024 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000025 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000026 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000027 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000028 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000029 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000030 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000031 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000032 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000033 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000034 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000035 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000036 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000037 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000038 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000039 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| SRCPARAM                          | L0000040 | 0.000002128  | 3.49  | 4.00    | 3.25   |      |
| ** -----                          |          |              |       |         |        |      |
| SRCPARAM                          | STCK1    | 0.0107098198 | 3.550 | 728.550 | 54.78  | 0.13 |
| SRCPARAM                          | STCK2    | 0.0107098198 | 3.840 | 798.160 | 160.56 | 0.17 |
| ** LINE VOLUME Source ID = SLINE2 |          |              |       |         |        |      |
| SRCPARAM                          | L0000041 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000042 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000043 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000044 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000045 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000046 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000047 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000048 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000049 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000050 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000051 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |
| SRCPARAM                          | L0000052 | 0.000000579  | 3.49  | 6.51    | 3.25   |      |



[illegible]

[illegible]



\* \*

[illegible]

[illegible]

\*\* LINE VOLUME Source ID = SLINE5

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000375 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000376 | 0.0000001937 | 3.49 | 6.51 | 3.25 |

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000376 | 0.0000001937 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

[illegible]

[illegible]

[illegible]

```
** LINE VOLUME Source ID = SLINE6
```

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000570 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000571 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000572 | 0.0000002345 | 3.49 | 6.51 | 3.25 |

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000571 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000572 | 0.0000002345 | 3.49 | 6.51 | 3.25 |
|----------|----------|--------------|------|------|------|

[illegible]

\*\* LINE VOLUME Source ID = SLINE7

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000617 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000618 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000619 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000620 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000621 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000622 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000623 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000624 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000625 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000626 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000627 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000628 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000629 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000630 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000631 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000632 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000633 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000634 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000635 | 0.00000002744 | 3.49 | 6.51 | 3.25 |
| SRCPARAM | L0000636 | 0.00000002744 | 3.49 | 6.51 | 3.25 |

[illegible]





|                                   |          |                |       |       |       |
|-----------------------------------|----------|----------------|-------|-------|-------|
| SRCPARAM                          | L0000767 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000768 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000769 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000770 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000771 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000772 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000773 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000774 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000775 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000776 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000777 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000778 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000779 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| SRCPARAM                          | L0000780 | 0.000000197    | 3.49  | 6.51  | 3.25  |
| ** -----                          |          |                |       |       |       |
| ** LINE VOLUME Source ID = SLINE9 |          |                |       |       |       |
| SRCPARAM                          | L0000781 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000782 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000783 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000784 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000785 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000786 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000787 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000788 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000789 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000790 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000791 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000792 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000793 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000794 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000795 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000796 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000797 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000798 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000799 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000800 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000801 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000802 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000803 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000804 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000805 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000806 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000807 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000808 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000809 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000810 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000811 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000812 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000813 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000814 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000815 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000816 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000817 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000818 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000819 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000820 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000821 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000822 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000823 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000824 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000825 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| SRCPARAM                          | L0000826 | 0.000000006261 | 3.49  | 4.00  | 3.25  |
| ** -----                          |          |                |       |       |       |
| ** Building Downwash **           |          |                |       |       |       |
| BUILDHGT                          | IDLE1    | 13.72          | 13.72 | 13.72 | 13.72 |

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]





[illegible]

[illegible]

|          |       |        |        |        |        |        |        |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP79 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP80 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP81 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP82 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 0.00   | 0.00   | 0.00   | 13.72  | 13.72  | 13.72  |
| BUILDHGT | TTP83 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK1 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
| BUILDHGT | STCK2 | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  | 13.72  |
|          |       |        |        |        |        |        |        |
| BUILDWID | IDLE1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | IDLE1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | IDLE1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 |        |

[illegible]



[illegible]





[illegible]

[illegible]

[illegible]

[illegible]







[illegible]



[illegible]

[illegible]

[illegible]



[illegible]



|          |       |        |        |        |        |        |        |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BUILDWID | TTP81 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP81 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP81 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP81 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP81 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP81 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | TTP82 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP82 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP82 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP82 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP82 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP82 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | TTP83 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP83 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP83 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | TTP83 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | TTP83 | 0.00   | 0.00   | 0.00   | 154.15 | 204.25 | 248.75 |
| BUILDWID | TTP83 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | STCK1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | STCK1 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK1 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK1 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDWID | STCK2 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK2 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK2 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
| BUILDWID | STCK2 | 341.41 | 340.07 | 328.40 | 306.75 | 275.78 | 236.43 |
| BUILDWID | STCK2 | 189.90 | 138.35 | 101.45 | 154.15 | 204.25 | 248.75 |
| BUILDWID | STCK2 | 285.70 | 313.97 | 332.69 | 341.31 | 339.56 | 333.59 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE1 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE1 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE1 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE1 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE1 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE1 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE2 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE2 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE2 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE2 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE2 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE2 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE3 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE3 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE3 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE3 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE3 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE3 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE4 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE4 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE4 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLN  | IDLE4 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE4 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE4 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLN  | IDLE5 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLN  | IDLE5 | 341.31 | 339.56 | 333.59 | 341.41 | 340.07 | 328.40 |
| BUILDLN  | IDLE5 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |

[illegible]



[illegible]

[illegible]



[illegible]





[illegible]

[illegible]



[illegible]



[illegible]



|          |       |        |        |        |        |        |        |
|----------|-------|--------|--------|--------|--------|--------|--------|
| BUILDL   | TTP36 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP36 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDL   | TTP36 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP36 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDL   | TTP36 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP36 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP37 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP37 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP37 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP37 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP37 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP37 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP38 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP38 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP38 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP38 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP38 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP38 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP39 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP39 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP39 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP39 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP39 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP39 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP40 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP40 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP40 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP40 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP40 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP40 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP41 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP41 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP41 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP41 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP41 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP41 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP42 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP42 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP42 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP42 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP42 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP42 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP43 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP43 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP43 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP43 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP43 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP43 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP44 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP44 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP44 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
| BUILDLEN | TTP44 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP44 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP44 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |
|          |       |        |        |        |        |        |        |
| BUILDLEN | TTP45 | 154.15 | 204.25 | 248.75 | 285.70 | 313.97 | 332.69 |
| BUILDLEN | TTP45 | 341.31 | 339.56 | 0.00   | 341.41 | 340.07 | 328.40 |
| BUILDLEN | TTP45 | 306.75 | 275.78 | 236.43 | 189.90 | 138.35 | 101.45 |

[illegible]

[illegible]

[illegible]



[illegible]

|           |       |         |         |         |         |         |         |
|-----------|-------|---------|---------|---------|---------|---------|---------|
| BUILDLLEN | TTP83 | 0.00    | 0.00    | 0.00    | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | TTP83 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDLLEN | TTP83 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDLLEN | TTP83 | 0.00    | 0.00    | 0.00    | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | TTP83 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|           |       |         |         |         |         |         |         |
| BUILDLLEN | STCK1 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDLLEN | STCK1 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | STCK1 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDLLEN | STCK1 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDLLEN | STCK1 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | STCK1 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|           |       |         |         |         |         |         |         |
| BUILDLLEN | STCK2 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDLLEN | STCK2 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | STCK2 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
| BUILDLLEN | STCK2 | 154.15  | 204.25  | 248.75  | 285.70  | 313.97  | 332.69  |
| BUILDLLEN | STCK2 | 341.31  | 339.56  | 333.59  | 341.41  | 340.07  | 328.40  |
| BUILDLLEN | STCK2 | 306.75  | 275.78  | 236.43  | 189.90  | 138.35  | 101.45  |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE1 | -15.52  | -26.12  | -35.92  | -44.63  | -51.99  | -57.76  |
| XBADJ     | IDLE1 | -61.78  | -63.93  | -66.45  | -78.97  | -90.31  | -98.90  |
| XBADJ     | IDLE1 | -104.49 | -106.90 | -106.07 | -102.01 | -95.62  | -97.00  |
| XBADJ     | IDLE1 | -138.64 | -178.13 | -212.84 | -241.07 | -261.98 | -274.93 |
| XBADJ     | IDLE1 | -279.53 | -275.63 | -267.14 | -262.44 | -249.76 | -229.49 |
| XBADJ     | IDLE1 | -202.26 | -168.87 | -130.36 | -87.88  | -42.73  | -4.45   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE2 | -16.44  | -27.70  | -38.13  | -47.40  | -55.22  | -61.37  |
| XBADJ     | IDLE2 | -65.66  | -67.95  | -70.49  | -82.91  | -94.03  | -102.29 |
| XBADJ     | IDLE2 | -107.44 | -109.33 | -107.90 | -103.19 | -96.10  | -96.78  |
| XBADJ     | IDLE2 | -137.72 | -176.54 | -210.62 | -238.31 | -258.74 | -271.32 |
| XBADJ     | IDLE2 | -275.66 | -271.61 | -263.10 | -258.50 | -246.04 | -226.11 |
| XBADJ     | IDLE2 | -199.30 | -166.44 | -128.53 | -86.71  | -42.25  | -4.67   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE3 | -17.15  | -29.05  | -40.08  | -49.88  | -58.17  | -64.70  |
| XBADJ     | IDLE3 | -69.25  | -71.71  | -74.30  | -86.65  | -97.59  | -105.56 |
| XBADJ     | IDLE3 | -110.33 | -111.74 | -109.76 | -104.45 | -96.71  | -96.73  |
| XBADJ     | IDLE3 | -137.01 | -175.19 | -208.68 | -235.82 | -255.79 | -268.00 |
| XBADJ     | IDLE3 | -272.06 | -267.85 | -259.29 | -254.75 | -242.48 | -222.83 |
| XBADJ     | IDLE3 | -196.42 | -164.03 | -126.67 | -85.45  | -41.64  | -4.72   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE4 | -17.98  | -30.55  | -42.19  | -52.56  | -61.32  | -68.22  |
| XBADJ     | IDLE4 | -73.05  | -75.66  | -78.29  | -90.56  | -101.29 | -108.95 |
| XBADJ     | IDLE4 | -113.30 | -114.20 | -111.64 | -105.68 | -97.27  | -96.59  |
| XBADJ     | IDLE4 | -136.18 | -173.70 | -206.56 | -233.15 | -252.65 | -264.47 |
| XBADJ     | IDLE4 | -268.26 | -263.90 | -255.30 | -250.85 | -238.77 | -219.45 |
| XBADJ     | IDLE4 | -193.45 | -161.58 | -124.79 | -84.22  | -41.08  | -4.86   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE5 | -18.73  | -31.99  | -44.27  | -55.22  | -64.48  | -71.78  |
| XBADJ     | IDLE5 | -76.91  | -79.69  | -82.38  | -94.58  | -105.12 | -112.47 |
| XBADJ     | IDLE5 | -116.40 | -116.80 | -113.65 | -107.04 | -97.94  | -96.55  |
| XBADJ     | IDLE5 | -135.43 | -172.26 | -204.48 | -230.49 | -249.49 | -260.91 |
| XBADJ     | IDLE5 | -264.40 | -259.87 | -251.21 | -246.83 | -234.95 | -215.92 |
| XBADJ     | IDLE5 | -190.34 | -158.98 | -122.78 | -82.86  | -40.41  | -4.90   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE6 | -20.28  | -34.84  | -48.34  | -60.37  | -70.57  | -78.62  |
| XBADJ     | IDLE6 | -84.29  | -87.39  | -90.16  | -102.20 | -112.36 | -119.11 |
| XBADJ     | IDLE6 | -122.24 | -121.65 | -117.36 | -109.51 | -99.09  | -96.35  |
| XBADJ     | IDLE6 | -133.88 | -169.41 | -200.42 | -225.33 | -243.40 | -254.07 |
| XBADJ     | IDLE6 | -257.03 | -252.17 | -243.43 | -239.20 | -227.70 | -209.29 |
| XBADJ     | IDLE6 | -184.51 | -154.13 | -119.06 | -80.38  | -39.26  | -5.10   |
|           |       |         |         |         |         |         |         |
| XBADJ     | IDLE7 | -21.18  | -36.41  | -50.53  | -63.12  | -73.79  | -82.22  |
| XBADJ     | IDLE7 | -88.15  | -91.40  | -94.19  | -106.14 | -116.08 | -122.49 |
| XBADJ     | IDLE7 | -125.19 | -124.08 | -119.20 | -110.69 | -99.59  | -96.14  |
| XBADJ     | IDLE7 | -132.97 | -167.84 | -198.22 | -222.58 | -240.18 | -250.48 |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE7  | -253.17 | -248.16 | -239.40 | -235.27 | -223.99 | -205.90 |
| XBADJ | IDLE7  | -181.56 | -151.70 | -117.23 | -79.20  | -38.76  | -5.31   |
| XBADJ | IDLE8  | -21.89  | -37.76  | -52.48  | -65.61  | -76.74  | -85.54  |
| XBADJ | IDLE8  | -91.74  | -95.16  | -98.00  | -109.88 | -119.64 | -125.77 |
| XBADJ | IDLE8  | -128.07 | -126.49 | -121.06 | -111.95 | -100.20 | -96.09  |
| XBADJ | IDLE8  | -132.26 | -166.49 | -196.27 | -220.09 | -237.23 | -247.15 |
| XBADJ | IDLE8  | -249.57 | -244.40 | -235.59 | -231.52 | -220.42 | -202.63 |
| XBADJ | IDLE8  | -178.67 | -149.29 | -115.37 | -77.95  | -38.15  | -5.36   |
| XBADJ | IDLE9  | -22.72  | -39.26  | -54.60  | -68.28  | -79.89  | -89.07  |
| XBADJ | IDLE9  | -95.54  | -99.11  | -101.99 | -113.79 | -123.34 | -129.15 |
| XBADJ | IDLE9  | -131.04 | -128.95 | -122.93 | -113.18 | -100.75 | -95.95  |
| XBADJ | IDLE9  | -131.43 | -164.99 | -194.16 | -217.42 | -234.08 | -243.63 |
| XBADJ | IDLE9  | -245.77 | -240.45 | -231.60 | -227.62 | -216.72 | -199.24 |
| XBADJ | IDLE9  | -175.71 | -146.83 | -113.50 | -76.71  | -37.60  | -5.50   |
| XBADJ | IDLE10 | -23.47  | -40.69  | -56.68  | -70.94  | -83.05  | -92.63  |
| XBADJ | IDLE10 | -99.40  | -103.15 | -106.08 | -117.81 | -127.17 | -132.68 |
| XBADJ | IDLE10 | -134.15 | -131.54 | -124.94 | -114.54 | -101.42 | -95.91  |
| XBADJ | IDLE10 | -130.68 | -163.55 | -192.08 | -214.76 | -230.92 | -240.07 |
| XBADJ | IDLE10 | -241.92 | -236.41 | -227.51 | -223.60 | -212.89 | -195.72 |
| XBADJ | IDLE10 | -172.60 | -144.23 | -111.49 | -75.35  | -36.93  | -5.54   |
| XBADJ | IDLE11 | -24.34  | -42.22  | -58.81  | -73.62  | -86.19  | -96.14  |
| XBADJ | IDLE11 | -103.16 | -107.06 | -110.02 | -121.65 | -130.81 | -135.99 |
| XBADJ | IDLE11 | -137.04 | -133.93 | -126.75 | -115.71 | -101.92 | -95.72  |
| XBADJ | IDLE11 | -129.81 | -162.03 | -189.94 | -212.08 | -227.78 | -236.56 |
| XBADJ | IDLE11 | -238.15 | -232.50 | -223.57 | -219.75 | -209.26 | -192.40 |
| XBADJ | IDLE11 | -169.70 | -141.85 | -109.68 | -74.18  | -36.43  | -5.73   |
| XBADJ | IDLE12 | -25.13  | -43.67  | -60.89  | -76.26  | -89.31  | -99.65  |
| XBADJ | IDLE12 | -106.95 | -111.01 | -114.02 | -125.58 | -134.54 | -139.41 |
| XBADJ | IDLE12 | -140.05 | -136.43 | -128.67 | -117.00 | -102.53 | -95.63  |
| XBADJ | IDLE12 | -129.03 | -160.58 | -187.86 | -209.44 | -224.66 | -233.05 |
| XBADJ | IDLE12 | -234.36 | -228.55 | -219.57 | -215.83 | -205.53 | -188.98 |
| XBADJ | IDLE12 | -166.70 | -139.34 | -107.76 | -72.90  | -35.82  | -5.82   |
| XBADJ | IDLE13 | -29.73  | -52.23  | -73.13  | -91.81  | -107.71 | -120.33 |
| XBADJ | IDLE13 | -129.29 | -134.33 | -137.60 | -148.71 | -156.52 | -159.57 |
| XBADJ | IDLE13 | -157.78 | -151.19 | -140.01 | -124.57 | -106.11 | -95.11  |
| XBADJ | IDLE13 | -124.42 | -152.02 | -175.62 | -193.89 | -206.26 | -212.37 |
| XBADJ | IDLE13 | -212.02 | -205.23 | -195.99 | -192.70 | -183.55 | -168.82 |
| XBADJ | IDLE13 | -148.97 | -124.59 | -96.42  | -65.32  | -32.24  | -6.34   |
| XBADJ | IDLE14 | -30.61  | -53.75  | -75.27  | -94.49  | -110.85 | -123.83 |
| XBADJ | IDLE14 | -133.06 | -138.24 | -141.54 | -152.56 | -160.16 | -162.89 |
| XBADJ | IDLE14 | -160.68 | -153.58 | -141.81 | -125.74 | -106.61 | -94.92  |
| XBADJ | IDLE14 | -123.55 | -150.50 | -173.49 | -191.21 | -203.12 | -208.86 |
| XBADJ | IDLE14 | -208.26 | -201.32 | -192.05 | -188.85 | -179.91 | -165.51 |
| XBADJ | IDLE14 | -146.07 | -122.20 | -94.61  | -64.15  | -31.74  | -6.53   |
| XBADJ | IDLE15 | -31.39  | -55.20  | -77.34  | -97.12  | -113.96 | -127.33 |
| XBADJ | IDLE15 | -136.84 | -142.18 | -145.53 | -156.47 | -163.88 | -166.30 |
| XBADJ | IDLE15 | -163.67 | -156.07 | -143.73 | -127.02 | -107.21 | -94.83  |
| XBADJ | IDLE15 | -122.77 | -149.05 | -171.42 | -188.58 | -200.01 | -205.36 |
| XBADJ | IDLE15 | -204.48 | -197.38 | -188.06 | -184.94 | -176.19 | -162.09 |
| XBADJ | IDLE15 | -143.07 | -119.70 | -92.70  | -62.87  | -31.14  | -6.62   |
| XBADJ | IDLE16 | -26.54  | -46.36  | -64.78  | -81.24  | -95.22  | -106.31 |
| XBADJ | IDLE16 | -114.17 | -118.56 | -121.67 | -133.10 | -141.70 | -146.00 |
| XBADJ | IDLE16 | -145.86 | -141.29 | -132.43 | -119.54 | -103.78 | -95.55  |
| XBADJ | IDLE16 | -127.62 | -157.88 | -183.97 | -204.47 | -218.75 | -226.38 |
| XBADJ | IDLE16 | -227.14 | -221.00 | -211.92 | -208.31 | -198.37 | -182.40 |
| XBADJ | IDLE16 | -160.89 | -134.49 | -104.00 | -70.36  | -34.57  | -5.90   |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE17 | -27.44  | -47.94  | -66.98  | -83.99  | -98.44  | -109.91 |
| XBADJ | IDLE17 | -118.03 | -122.57 | -125.70 | -137.03 | -145.42 | -149.38 |
| XBADJ | IDLE17 | -148.81 | -143.72 | -134.26 | -120.72 | -104.27 | -95.34  |
| XBADJ | IDLE17 | -126.71 | -156.31 | -181.77 | -201.71 | -215.53 | -222.79 |
| XBADJ | IDLE17 | -223.28 | -216.99 | -207.89 | -204.38 | -194.65 | -179.01 |
| XBADJ | IDLE17 | -157.94 | -132.06 | -102.17 | -69.18  | -34.08  | -6.11   |
| XBADJ | IDLE18 | -28.15  | -49.29  | -68.93  | -86.47  | -101.39 | -113.23 |
| XBADJ | IDLE18 | -121.63 | -126.33 | -129.51 | -140.77 | -148.98 | -152.66 |
| XBADJ | IDLE18 | -151.70 | -146.13 | -136.12 | -121.98 | -104.88 | -95.29  |
| XBADJ | IDLE18 | -126.00 | -154.96 | -179.82 | -199.23 | -212.58 | -219.46 |
| XBADJ | IDLE18 | -219.69 | -213.23 | -204.08 | -200.63 | -191.09 | -175.74 |
| XBADJ | IDLE18 | -155.05 | -129.65 | -100.31 | -67.92  | -33.47  | -6.16   |
| XBADJ | IDLE19 | -28.99  | -50.79  | -71.05  | -89.15  | -104.55 | -116.76 |
| XBADJ | IDLE19 | -125.43 | -130.29 | -133.51 | -144.69 | -152.69 | -156.05 |
| XBADJ | IDLE19 | -154.67 | -148.59 | -138.00 | -123.21 | -105.44 | -95.15  |
| XBADJ | IDLE19 | -125.17 | -153.46 | -177.70 | -196.55 | -209.42 | -215.93 |
| XBADJ | IDLE19 | -215.88 | -209.27 | -200.08 | -196.72 | -187.38 | -172.34 |
| XBADJ | IDLE19 | -152.07 | -127.18 | -98.43  | -66.68  | -32.91  | -6.30   |
| XBADJ | IDLE20 | -36.12  | -63.92  | -89.78  | -112.91 | -132.61 | -148.28 |
| XBADJ | IDLE20 | -159.45 | -165.77 | -169.37 | -179.84 | -186.07 | -186.65 |
| XBADJ | IDLE20 | -181.55 | -170.94 | -155.13 | -134.61 | -110.76 | -94.23  |
| XBADJ | IDLE20 | -118.04 | -140.33 | -158.98 | -172.79 | -181.36 | -184.42 |
| XBADJ | IDLE20 | -181.87 | -173.79 | -164.22 | -161.56 | -153.99 | -141.75 |
| XBADJ | IDLE20 | -125.20 | -104.84 | -81.30  | -55.28  | -27.59  | -7.22   |
| XBADJ | IDLE21 | -36.98  | -65.44  | -91.90  | -115.58 | -135.74 | -151.78 |
| XBADJ | IDLE21 | -163.21 | -169.68 | -173.31 | -183.69 | -189.71 | -189.97 |
| XBADJ | IDLE21 | -184.45 | -173.33 | -156.95 | -135.79 | -111.27 | -94.05  |
| XBADJ | IDLE21 | -117.18 | -138.81 | -156.85 | -170.12 | -178.23 | -180.91 |
| XBADJ | IDLE21 | -178.10 | -169.88 | -160.28 | -157.71 | -150.35 | -138.43 |
| XBADJ | IDLE21 | -122.29 | -102.44 | -79.48  | -54.10  | -27.08  | -7.40   |
| XBADJ | IDLE22 | -37.76  | -66.89  | -93.98  | -118.22 | -138.86 | -155.29 |
| XBADJ | IDLE22 | -167.00 | -173.63 | -177.31 | -187.62 | -193.44 | -193.39 |
| XBADJ | IDLE22 | -187.46 | -175.84 | -158.87 | -137.07 | -111.87 | -93.96  |
| XBADJ | IDLE22 | -116.39 | -137.36 | -154.77 | -167.48 | -175.10 | -177.40 |
| XBADJ | IDLE22 | -174.31 | -165.93 | -156.28 | -153.79 | -146.63 | -135.01 |
| XBADJ | IDLE22 | -119.29 | -99.94  | -77.56  | -52.82  | -26.48  | -7.49   |
| XBADJ | IDLE23 | -32.91  | -58.05  | -81.43  | -102.33 | -120.12 | -134.27 |
| XBADJ | IDLE23 | -144.33 | -150.01 | -153.45 | -164.24 | -171.27 | -173.09 |
| XBADJ | IDLE23 | -169.64 | -161.05 | -147.56 | -129.59 | -108.44 | -94.68  |
| XBADJ | IDLE23 | -121.24 | -146.20 | -167.33 | -183.37 | -193.84 | -198.43 |
| XBADJ | IDLE23 | -196.98 | -189.55 | -180.14 | -177.16 | -168.80 | -155.31 |
| XBADJ | IDLE23 | -137.10 | -114.73 | -88.87  | -60.31  | -29.91  | -6.77   |
| XBADJ | IDLE24 | -33.83  | -59.64  | -83.63  | -105.09 | -123.35 | -137.87 |
| XBADJ | IDLE24 | -148.19 | -154.02 | -157.48 | -168.17 | -174.98 | -176.47 |
| XBADJ | IDLE24 | -172.59 | -163.47 | -149.39 | -130.76 | -108.92 | -94.46  |
| XBADJ | IDLE24 | -120.33 | -144.61 | -165.12 | -180.61 | -190.62 | -194.83 |
| XBADJ | IDLE24 | -193.12 | -185.54 | -176.11 | -173.23 | -165.09 | -151.93 |
| XBADJ | IDLE24 | -134.16 | -112.30 | -87.04  | -59.13  | -29.43  | -6.99   |
| XBADJ | IDLE25 | -34.53  | -60.98  | -85.57  | -107.57 | -126.30 | -141.19 |
| XBADJ | IDLE25 | -151.79 | -157.78 | -161.29 | -171.92 | -178.54 | -179.74 |
| XBADJ | IDLE25 | -175.48 | -165.89 | -151.26 | -132.03 | -109.54 | -94.42  |
| XBADJ | IDLE25 | -119.63 | -143.27 | -163.18 | -178.13 | -187.67 | -191.51 |
| XBADJ | IDLE25 | -189.53 | -181.78 | -172.30 | -169.49 | -161.52 | -148.65 |
| XBADJ | IDLE25 | -131.26 | -109.89 | -85.17  | -57.87  | -28.81  | -7.03   |
| XBADJ | IDLE26 | -35.36  | -62.48  | -87.69  | -110.25 | -129.45 | -144.72 |
| XBADJ | IDLE26 | -155.59 | -161.74 | -165.29 | -175.83 | -182.26 | -183.14 |
| XBADJ | IDLE26 | -178.46 | -168.35 | -153.14 | -133.26 | -110.10 | -94.28  |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE26 | -118.79 | -141.77 | -161.06 | -175.45 | -184.52 | -187.97 |
| XBADJ | IDLE26 | -185.72 | -177.82 | -168.30 | -165.57 | -157.81 | -145.26 |
| XBADJ | IDLE26 | -128.29 | -107.42 | -83.29  | -56.63  | -28.25  | -7.17   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE27 | -42.35  | -75.41  | -106.18 | -133.73 | -157.21 | -175.91 |
| XBADJ | IDLE27 | -189.27 | -196.88 | -200.83 | -210.69 | -215.37 | -213.50 |
| XBADJ | IDLE27 | -205.15 | -190.56 | -170.19 | -144.64 | -115.46 | -93.45  |
| XBADJ | IDLE27 | -111.81 | -128.84 | -142.57 | -151.97 | -156.76 | -156.78 |
| XBADJ | IDLE27 | -152.04 | -142.68 | -132.76 | -130.72 | -124.70 | -114.89 |
| XBADJ | IDLE27 | -101.60 | -85.21  | -66.24  | -45.26  | -22.90  | -8.00   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE28 | -43.21  | -76.93  | -108.31 | -136.40 | -160.34 | -179.42 |
| XBADJ | IDLE28 | -193.04 | -200.79 | -204.77 | -214.54 | -219.01 | -216.82 |
| XBADJ | IDLE28 | -208.05 | -192.96 | -172.00 | -145.82 | -115.96 | -93.27  |
| XBADJ | IDLE28 | -110.94 | -127.32 | -140.44 | -149.30 | -153.62 | -153.28 |
| XBADJ | IDLE28 | -148.27 | -138.77 | -128.82 | -126.87 | -121.06 | -111.57 |
| XBADJ | IDLE28 | -98.69  | -82.82  | -64.43  | -44.08  | -22.39  | -8.18   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE29 | -43.99  | -78.38  | -110.39 | -139.04 | -163.47 | -182.93 |
| XBADJ | IDLE29 | -196.83 | -204.75 | -208.77 | -218.46 | -222.74 | -220.24 |
| XBADJ | IDLE29 | -211.06 | -195.46 | -173.92 | -147.10 | -116.57 | -93.18  |
| XBADJ | IDLE29 | -110.16 | -125.87 | -138.37 | -146.66 | -150.50 | -149.77 |
| XBADJ | IDLE29 | -144.48 | -134.81 | -124.82 | -122.94 | -117.33 | -108.15 |
| XBADJ | IDLE29 | -95.69  | -80.32  | -62.51  | -42.79  | -21.78  | -8.27   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE30 | -39.14  | -69.54  | -97.83  | -123.14 | -144.72 | -161.89 |
| XBADJ | IDLE30 | -174.15 | -181.12 | -184.90 | -195.08 | -200.55 | -199.93 |
| XBADJ | IDLE30 | -193.24 | -180.67 | -162.61 | -139.61 | -113.13 | -93.90  |
| XBADJ | IDLE30 | -115.01 | -134.71 | -150.93 | -162.56 | -169.25 | -170.80 |
| XBADJ | IDLE30 | -167.16 | -158.44 | -148.69 | -146.33 | -139.51 | -128.46 |
| XBADJ | IDLE30 | -113.51 | -95.11  | -73.82  | -50.28  | -25.22  | -7.55   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE31 | -40.06  | -71.13  | -100.04 | -125.91 | -147.95 | -165.50 |
| XBADJ | IDLE31 | -178.02 | -185.13 | -188.94 | -199.02 | -204.27 | -203.32 |
| XBADJ | IDLE31 | -196.19 | -183.10 | -164.44 | -140.79 | -113.62 | -93.68  |
| XBADJ | IDLE31 | -114.10 | -133.12 | -148.72 | -159.79 | -166.01 | -167.19 |
| XBADJ | IDLE31 | -163.29 | -154.43 | -144.65 | -142.38 | -135.79 | -125.08 |
| XBADJ | IDLE31 | -110.56 | -92.68  | -71.99  | -49.11  | -24.73  | -7.77   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE32 | -40.76  | -72.47  | -101.98 | -128.39 | -150.90 | -168.82 |
| XBADJ | IDLE32 | -181.62 | -188.89 | -192.75 | -202.77 | -207.84 | -206.60 |
| XBADJ | IDLE32 | -199.08 | -185.52 | -166.31 | -142.05 | -114.24 | -93.64  |
| XBADJ | IDLE32 | -113.40 | -131.78 | -146.78 | -157.31 | -163.07 | -163.87 |
| XBADJ | IDLE32 | -159.70 | -150.67 | -140.84 | -138.64 | -132.23 | -121.80 |
| XBADJ | IDLE32 | -107.66 | -90.26  | -70.12  | -47.84  | -24.11  | -7.81   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE33 | -41.59  | -73.97  | -104.09 | -131.06 | -154.04 | -172.35 |
| XBADJ | IDLE33 | -185.41 | -192.85 | -196.74 | -206.67 | -211.54 | -209.99 |
| XBADJ | IDLE33 | -202.05 | -187.97 | -168.19 | -143.29 | -114.79 | -93.50  |
| XBADJ | IDLE33 | -112.56 | -130.28 | -144.66 | -154.64 | -159.92 | -160.35 |
| XBADJ | IDLE33 | -155.90 | -146.71 | -136.85 | -134.73 | -128.53 | -118.41 |
| XBADJ | IDLE33 | -104.70 | -87.80  | -68.24  | -46.61  | -23.56  | -7.95   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE34 | -48.76  | -87.14  | -122.86 | -154.85 | -182.14 | -203.89 |
| XBADJ | IDLE34 | -219.45 | -228.34 | -232.61 | -241.83 | -244.92 | -240.57 |
| XBADJ | IDLE34 | -228.91 | -210.29 | -185.29 | -154.65 | -120.08 | -92.54  |
| XBADJ | IDLE34 | -105.39 | -117.11 | -125.89 | -130.85 | -131.83 | -128.80 |
| XBADJ | IDLE34 | -121.86 | -111.22 | -100.98 | -99.58  | -95.15  | -87.83  |
| XBADJ | IDLE34 | -77.84  | -65.48  | -51.14  | -35.24  | -18.27  | -8.91   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE35 | -49.64  | -88.66  | -125.00 | -157.53 | -185.28 | -207.40 |
| XBADJ | IDLE35 | -223.22 | -232.25 | -236.55 | -245.68 | -248.56 | -243.89 |
| XBADJ | IDLE35 | -231.81 | -212.68 | -187.09 | -155.82 | -120.57 | -92.35  |
| XBADJ | IDLE35 | -104.52 | -115.59 | -123.76 | -128.17 | -128.69 | -125.30 |
| XBADJ | IDLE35 | -118.10 | -107.31 | -97.04  | -95.73  | -91.51  | -84.51  |
| XBADJ | IDLE35 | -74.94  | -63.10  | -49.33  | -34.07  | -17.78  | -9.10   |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE36 | -50.42  | -90.11  | -127.07 | -160.16 | -188.39 | -210.90 |
| XBADJ | IDLE36 | -227.00 | -236.20 | -240.54 | -249.59 | -252.28 | -247.30 |
| XBADJ | IDLE36 | -234.80 | -215.18 | -189.01 | -157.10 | -121.18 | -92.26  |
| XBADJ | IDLE36 | -103.74 | -114.14 | -121.69 | -125.54 | -125.57 | -121.80 |
| XBADJ | IDLE36 | -114.32 | -103.36 | -93.05  | -91.82  | -87.79  | -81.10  |
| XBADJ | IDLE36 | -71.94  | -60.60  | -47.42  | -32.79  | -17.17  | -9.19   |
| XBADJ | IDLE37 | -45.56  | -81.27  | -114.52 | -144.28 | -169.65 | -189.88 |
| XBADJ | IDLE37 | -204.33 | -212.57 | -216.68 | -226.22 | -230.10 | -226.99 |
| XBADJ | IDLE37 | -216.99 | -200.39 | -177.70 | -149.62 | -117.74 | -92.98  |
| XBADJ | IDLE37 | -108.59 | -122.97 | -134.24 | -141.43 | -144.31 | -142.82 |
| XBADJ | IDLE37 | -136.98 | -126.99 | -116.91 | -115.19 | -109.97 | -101.40 |
| XBADJ | IDLE37 | -89.76  | -75.39  | -58.72  | -40.28  | -20.61  | -8.47   |
| XBADJ | IDLE38 | -46.48  | -82.86  | -116.72 | -147.04 | -172.88 | -193.48 |
| XBADJ | IDLE38 | -208.19 | -216.58 | -220.71 | -230.15 | -233.81 | -230.37 |
| XBADJ | IDLE38 | -219.93 | -202.81 | -179.53 | -150.79 | -118.23 | -92.76  |
| XBADJ | IDLE38 | -107.67 | -121.39 | -132.03 | -138.67 | -141.09 | -139.22 |
| XBADJ | IDLE38 | -133.12 | -122.98 | -112.88 | -111.26 | -106.25 | -98.02  |
| XBADJ | IDLE38 | -86.81  | -72.96  | -56.90  | -39.11  | -20.12  | -8.69   |
| XBADJ | IDLE39 | -47.18  | -84.20  | -118.66 | -149.51 | -175.83 | -196.80 |
| XBADJ | IDLE39 | -211.79 | -220.34 | -224.52 | -233.89 | -237.38 | -233.65 |
| XBADJ | IDLE39 | -222.83 | -205.23 | -181.40 | -152.06 | -118.85 | -92.72  |
| XBADJ | IDLE39 | -106.97 | -120.05 | -130.09 | -136.19 | -138.14 | -135.90 |
| XBADJ | IDLE39 | -129.53 | -119.22 | -109.07 | -107.51 | -102.69 | -94.74  |
| XBADJ | IDLE39 | -83.92  | -70.55  | -55.03  | -37.84  | -19.50  | -8.73   |
| XBADJ | IDLE40 | -48.01  | -85.70  | -120.78 | -152.19 | -178.98 | -200.33 |
| XBADJ | IDLE40 | -215.59 | -224.30 | -228.52 | -237.81 | -241.09 | -237.05 |
| XBADJ | IDLE40 | -225.80 | -207.70 | -183.28 | -153.29 | -119.41 | -92.58  |
| XBADJ | IDLE40 | -106.14 | -118.55 | -127.97 | -133.51 | -134.99 | -132.36 |
| XBADJ | IDLE40 | -125.72 | -115.26 | -105.07 | -103.60 | -98.98  | -91.35  |
| XBADJ | IDLE40 | -80.94  | -68.08  | -53.15  | -36.60  | -18.94  | -8.87   |
| XBADJ | IDLE41 | -55.03  | -98.70  | -139.36 | -175.79 | -206.88 | -231.68 |
| XBADJ | IDLE41 | -249.44 | -259.63 | -264.24 | -272.84 | -274.37 | -267.57 |
| XBADJ | IDLE41 | -252.63 | -230.02 | -200.42 | -164.73 | -124.79 | -91.75  |
| XBADJ | IDLE41 | -99.12  | -105.55 | -109.39 | -109.91 | -107.09 | -101.02 |
| XBADJ | IDLE41 | -91.87  | -79.93  | -69.35  | -68.56  | -65.69  | -60.83  |
| XBADJ | IDLE41 | -54.12  | -45.76  | -36.01  | -25.17  | -13.56  | -9.70   |
| XBADJ | IDLE42 | -55.90  | -100.22 | -141.49 | -178.47 | -210.02 | -235.19 |
| XBADJ | IDLE42 | -253.22 | -263.55 | -268.19 | -276.70 | -278.02 | -270.90 |
| XBADJ | IDLE42 | -255.54 | -232.42 | -202.24 | -165.91 | -125.30 | -91.57  |
| XBADJ | IDLE42 | -98.26  | -104.03 | -107.26 | -107.23 | -103.95 | -97.50  |
| XBADJ | IDLE42 | -88.10  | -76.01  | -65.40  | -64.71  | -62.04  | -57.50  |
| XBADJ | IDLE42 | -51.20  | -43.36  | -34.19  | -23.98  | -13.05  | -9.88   |
| XBADJ | IDLE43 | -51.83  | -92.83  | -131.01 | -165.21 | -194.39 | -217.67 |
| XBADJ | IDLE43 | -234.33 | -243.87 | -248.32 | -257.24 | -259.57 | -254.00 |
| XBADJ | IDLE43 | -240.73 | -220.13 | -192.85 | -159.71 | -122.47 | -92.20  |
| XBADJ | IDLE43 | -102.33 | -111.42 | -117.74 | -120.49 | -119.58 | -115.03 |
| XBADJ | IDLE43 | -106.98 | -95.69  | -85.27  | -84.16  | -80.50  | -74.39  |
| XBADJ | IDLE43 | -66.02  | -55.65  | -43.58  | -30.19  | -15.88  | -9.25   |
| XBADJ | IDLE44 | -52.74  | -94.41  | -133.22 | -167.97 | -197.62 | -221.27 |
| XBADJ | IDLE44 | -238.19 | -247.88 | -252.35 | -261.17 | -263.28 | -257.38 |
| XBADJ | IDLE44 | -243.67 | -222.55 | -194.67 | -160.88 | -122.95 | -91.98  |
| XBADJ | IDLE44 | -101.41 | -109.83 | -115.54 | -117.73 | -116.35 | -111.43 |
| XBADJ | IDLE44 | -103.12 | -91.68  | -81.24  | -80.23  | -76.79  | -71.01  |
| XBADJ | IDLE44 | -63.08  | -53.22  | -41.75  | -29.02  | -15.40  | -9.47   |
| XBADJ | IDLE45 | -53.44  | -95.75  | -135.16 | -170.45 | -200.57 | -224.59 |
| XBADJ | IDLE45 | -241.78 | -251.64 | -256.16 | -264.92 | -266.84 | -260.66 |

|       |        |         |         |         |         |         |         |
|-------|--------|---------|---------|---------|---------|---------|---------|
| XBADJ | IDLE45 | -246.56 | -224.97 | -196.54 | -162.14 | -123.58 | -91.94  |
| XBADJ | IDLE45 | -100.71 | -108.49 | -113.60 | -115.25 | -113.40 | -108.11 |
| XBADJ | IDLE45 | -99.53  | -87.92  | -77.43  | -76.49  | -73.22  | -67.73  |
| XBADJ | IDLE45 | -60.18  | -50.81  | -39.88  | -27.75  | -14.78  | -9.51   |
|       |        |         |         |         |         |         |         |
| XBADJ | IDLE46 | -54.28  | -97.25  | -137.28 | -173.13 | -203.72 | -228.12 |
| XBADJ | IDLE46 | -245.59 | -255.60 | -260.16 | -268.83 | -270.56 | -264.06 |
| XBADJ | IDLE46 | -249.54 | -227.44 | -198.42 | -163.38 | -124.13 | -91.80  |
| XBADJ | IDLE46 | -99.88  | -106.99 | -111.48 | -112.57 | -110.25 | -104.57 |
| XBADJ | IDLE46 | -95.72  | -83.96  | -73.43  | -72.57  | -69.51  | -64.34  |
| XBADJ | IDLE46 | -57.21  | -48.34  | -38.01  | -26.51  | -14.22  | -9.65   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU1   | -18.23  | -28.69  | -38.28  | -46.70  | -53.71  | -59.08  |
| XBADJ | TRU1   | -62.66  | -64.33  | -66.37  | -78.41  | -89.28  | -97.45  |
| XBADJ | TRU1   | -102.65 | -104.73 | -103.63 | -99.38  | -92.87  | -94.23  |
| XBADJ | TRU1   | -135.92 | -175.56 | -210.48 | -239.00 | -260.26 | -273.62 |
| XBADJ | TRU1   | -278.66 | -275.23 | -267.22 | -263.00 | -250.78 | -230.95 |
| XBADJ | TRU1   | -204.10 | -171.05 | -132.80 | -90.51  | -45.48  | -7.22   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU2   | -18.88  | -30.01  | -40.23  | -49.23  | -56.73  | -62.51  |
| XBADJ | TRU2   | -66.38  | -68.24  | -70.35  | -82.33  | -93.04  | -100.91 |
| XBADJ | TRU2   | -105.72 | -107.32 | -105.66 | -100.78 | -93.61  | -94.27  |
| XBADJ | TRU2   | -135.27 | -174.23 | -208.52 | -236.47 | -257.24 | -270.19 |
| XBADJ | TRU2   | -274.93 | -271.32 | -263.24 | -259.07 | -247.03 | -227.48 |
| XBADJ | TRU2   | -201.02 | -168.46 | -130.77 | -89.11  | -44.75  | -7.18   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU3   | -19.68  | -31.46  | -42.29  | -51.83  | -59.80  | -65.95  |
| XBADJ | TRU3   | -70.10  | -72.11  | -74.26  | -86.16  | -96.67  | -104.24 |
| XBADJ | TRU3   | -108.64 | -109.74 | -107.51 | -102.01 | -94.17  | -94.15  |
| XBADJ | TRU3   | -134.47 | -172.78 | -206.46 | -233.87 | -254.17 | -266.74 |
| XBADJ | TRU3   | -271.21 | -267.45 | -259.33 | -255.24 | -243.40 | -224.16 |
| XBADJ | TRU3   | -198.11 | -166.04 | -128.92 | -87.89  | -44.19  | -7.30   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU4   | -20.43  | -32.86  | -44.29  | -54.38  | -62.81  | -69.33  |
| XBADJ | TRU4   | -73.75  | -75.93  | -78.12  | -89.95  | -100.27 | -107.54 |
| XBADJ | TRU4   | -111.55 | -112.16 | -109.37 | -103.25 | -94.76  | -94.07  |
| XBADJ | TRU4   | -133.72 | -171.39 | -204.46 | -231.32 | -251.16 | -263.36 |
| XBADJ | TRU4   | -267.56 | -263.63 | -255.47 | -251.45 | -239.80 | -220.85 |
| XBADJ | TRU4   | -195.20 | -163.62 | -127.06 | -86.64  | -43.59  | -7.38   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU5   | -21.24  | -34.33  | -46.39  | -57.03  | -65.94  | -72.84  |
| XBADJ | TRU5   | -77.53  | -79.87  | -82.10  | -93.85  | -103.97 | -110.93 |
| XBADJ | TRU5   | -114.52 | -114.63 | -111.25 | -104.50 | -95.33  | -93.95  |
| XBADJ | TRU5   | -132.92 | -169.91 | -202.37 | -228.67 | -248.03 | -259.85 |
| XBADJ | TRU5   | -263.78 | -259.69 | -251.49 | -247.55 | -236.10 | -217.47 |
| XBADJ | TRU5   | -192.23 | -161.15 | -125.17 | -85.39  | -43.02  | -7.50   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU6   | -22.90  | -37.32  | -50.61  | -62.35  | -72.20  | -79.86  |
| XBADJ | TRU6   | -85.09  | -87.74  | -90.04  | -101.62 | -111.33 | -117.66 |
| XBADJ | TRU6   | -120.41 | -119.51 | -114.97 | -106.94 | -96.42  | -93.66  |
| XBADJ | TRU6   | -131.25 | -166.93 | -198.15 | -223.35 | -241.76 | -252.83 |
| XBADJ | TRU6   | -256.22 | -251.82 | -243.55 | -239.79 | -228.74 | -210.74 |
| XBADJ | TRU6   | -186.33 | -156.27 | -121.45 | -82.95  | -41.93  | -7.79   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU7   | -23.56  | -38.65  | -52.56  | -64.88  | -75.23  | -83.29  |
| XBADJ | TRU7   | -88.82  | -91.65  | -94.02  | -105.55 | -115.08 | -121.13 |
| XBADJ | TRU7   | -123.49 | -122.10 | -117.00 | -108.34 | -97.15  | -93.70  |
| XBADJ | TRU7   | -130.60 | -165.60 | -196.19 | -220.82 | -238.74 | -249.41 |
| XBADJ | TRU7   | -252.49 | -247.91 | -239.57 | -235.86 | -224.98 | -207.27 |
| XBADJ | TRU7   | -183.26 | -153.68 | -119.43 | -81.55  | -41.20  | -7.75   |
|       |        |         |         |         |         |         |         |
| XBADJ | TRU8   | -24.35  | -40.10  | -54.62  | -67.49  | -78.30  | -86.74  |
| XBADJ | TRU8   | -92.54  | -95.52  | -97.93  | -109.38 | -118.72 | -124.45 |
| XBADJ | TRU8   | -126.41 | -124.52 | -118.85 | -109.57 | -97.72  | -93.58  |
| XBADJ | TRU8   | -129.80 | -164.15 | -194.13 | -218.22 | -235.67 | -245.96 |
| XBADJ | TRU8   | -248.78 | -244.04 | -235.66 | -232.03 | -221.35 | -203.94 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU8  | -180.34 | -151.26 | -117.58 | -80.33  | -40.64  | -7.87   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU9  | -25.10  | -41.49  | -56.62  | -70.03  | -81.31  | -90.12  |
| XBADJ | TRU9  | -96.19  | -99.34  | -101.79 | -113.16 | -122.32 | -127.76 |
| XBADJ | TRU9  | -129.31 | -126.94 | -120.71 | -110.81 | -98.31  | -93.50  |
| XBADJ | TRU9  | -129.05 | -162.76 | -192.13 | -215.67 | -232.66 | -242.58 |
| XBADJ | TRU9  | -245.12 | -240.22 | -231.80 | -228.24 | -217.75 | -200.64 |
| XBADJ | TRU9  | -177.43 | -148.84 | -115.72 | -79.08  | -40.04  | -7.95   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU10 | -25.91  | -42.97  | -58.71  | -72.68  | -84.43  | -93.63  |
| XBADJ | TRU10 | -99.97  | -103.28 | -105.77 | -117.06 | -126.02 | -131.14 |
| XBADJ | TRU10 | -132.28 | -129.41 | -122.60 | -112.06 | -98.88  | -93.38  |
| XBADJ | TRU10 | -128.24 | -161.28 | -190.04 | -213.02 | -229.53 | -239.07 |
| XBADJ | TRU10 | -241.34 | -236.28 | -227.82 | -224.34 | -214.05 | -197.25 |
| XBADJ | TRU10 | -174.46 | -146.37 | -113.83 | -77.83  | -39.47  | -8.07   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU11 | -26.82  | -44.55  | -60.92  | -75.44  | -87.67  | -97.24  |
| XBADJ | TRU11 | -103.85 | -107.30 | -109.82 | -121.01 | -129.75 | -134.55 |
| XBADJ | TRU11 | -135.25 | -131.85 | -124.44 | -113.25 | -99.38  | -93.17  |
| XBADJ | TRU11 | -127.33 | -159.70 | -187.83 | -210.26 | -226.30 | -235.46 |
| XBADJ | TRU11 | -237.46 | -232.26 | -223.77 | -220.39 | -210.32 | -193.85 |
| XBADJ | TRU11 | -171.49 | -143.93 | -111.99 | -76.65  | -38.98  | -8.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU12 | -27.56  | -45.96  | -62.97  | -78.06  | -90.78  | -100.74 |
| XBADJ | TRU12 | -107.64 | -111.27 | -113.84 | -124.97 | -133.51 | -138.01 |
| XBADJ | TRU12 | -138.31 | -134.40 | -126.41 | -114.59 | -100.03 | -93.13  |
| XBADJ | TRU12 | -126.60 | -158.29 | -185.79 | -207.64 | -223.19 | -231.96 |
| XBADJ | TRU12 | -233.67 | -228.29 | -219.75 | -216.44 | -206.55 | -190.39 |
| XBADJ | TRU12 | -168.44 | -141.38 | -110.01 | -75.31  | -38.32  | -8.32   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU13 | -29.28  | -48.96  | -67.16  | -83.32  | -96.94  | -107.62 |
| XBADJ | TRU13 | -115.03 | -118.95 | -121.57 | -132.51 | -140.65 | -144.51 |
| XBADJ | TRU13 | -143.98 | -139.08 | -129.95 | -116.87 | -101.00 | -92.75  |
| XBADJ | TRU13 | -124.88 | -155.29 | -181.59 | -202.38 | -217.02 | -225.07 |
| XBADJ | TRU13 | -226.28 | -220.61 | -212.02 | -208.89 | -199.42 | -183.88 |
| XBADJ | TRU13 | -162.76 | -136.70 | -106.48 | -73.02  | -37.35  | -8.70   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU14 | -29.93  | -50.28  | -69.11  | -85.84  | -99.97  | -111.05 |
| XBADJ | TRU14 | -118.76 | -122.86 | -125.55 | -136.44 | -144.40 | -147.98 |
| XBADJ | TRU14 | -147.06 | -141.67 | -131.98 | -118.27 | -101.73 | -92.79  |
| XBADJ | TRU14 | -124.23 | -153.96 | -179.64 | -199.86 | -214.00 | -221.64 |
| XBADJ | TRU14 | -222.55 | -216.70 | -208.04 | -204.97 | -195.66 | -180.42 |
| XBADJ | TRU14 | -159.69 | -134.11 | -104.45 | -71.62  | -36.62  | -8.66   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU15 | -30.72  | -51.73  | -71.17  | -88.44  | -103.03 | -114.49 |
| XBADJ | TRU15 | -122.47 | -126.72 | -129.45 | -140.26 | -148.03 | -151.30 |
| XBADJ | TRU15 | -149.97 | -144.08 | -133.82 | -119.49 | -102.29 | -92.67  |
| XBADJ | TRU15 | -123.43 | -152.52 | -177.59 | -197.26 | -210.94 | -218.21 |
| XBADJ | TRU15 | -218.85 | -212.84 | -204.14 | -201.15 | -192.04 | -177.10 |
| XBADJ | TRU15 | -156.78 | -131.69 | -102.61 | -70.40  | -36.06  | -8.78   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU16 | -31.46  | -53.12  | -73.16  | -90.98  | -106.03 | -117.87 |
| XBADJ | TRU16 | -126.12 | -130.54 | -133.31 | -144.05 | -151.63 | -154.60 |
| XBADJ | TRU16 | -152.88 | -146.51 | -135.69 | -120.75 | -102.89 | -92.60  |
| XBADJ | TRU16 | -122.69 | -151.13 | -175.59 | -194.72 | -207.94 | -214.83 |
| XBADJ | TRU16 | -215.20 | -209.02 | -200.28 | -197.36 | -188.44 | -173.79 |
| XBADJ | TRU16 | -153.87 | -129.27 | -100.74 | -69.15  | -35.46  | -8.85   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU17 | -32.27  | -54.59  | -75.26  | -93.63  | -109.17 | -121.38 |
| XBADJ | TRU17 | -129.91 | -134.49 | -137.30 | -147.96 | -155.34 | -158.00 |
| XBADJ | TRU17 | -155.86 | -148.98 | -137.58 | -122.00 | -103.47 | -92.48  |
| XBADJ | TRU17 | -121.88 | -149.65 | -173.50 | -192.07 | -204.80 | -211.31 |
| XBADJ | TRU17 | -211.40 | -205.07 | -196.29 | -193.45 | -184.73 | -170.40 |
| XBADJ | TRU17 | -150.89 | -126.79 | -98.85  | -67.90  | -34.88  | -8.97   |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU18 | -33.18  | -56.17  | -77.46  | -96.39  | -112.40 | -124.98 |



|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU18 | -133.78 | -138.50 | -141.34 | -151.90 | -159.06 | -161.39 |
| XBADJ | TRU18 | -158.82 | -151.42 | -139.42 | -123.18 | -103.96 | -92.27  |
| XBADJ | TRU18 | -120.97 | -148.07 | -171.29 | -189.31 | -201.57 | -207.71 |
| XBADJ | TRU18 | -207.54 | -201.06 | -192.25 | -189.51 | -181.00 | -167.00 |
| XBADJ | TRU18 | -147.93 | -124.36 | -97.01  | -66.71  | -34.39  | -9.18   |
| XBADJ | TRU19 | -33.92  | -57.59  | -79.50  | -99.01  | -115.50 | -128.49 |
| XBADJ | TRU19 | -137.57 | -142.47 | -145.36 | -155.85 | -162.83 | -164.85 |
| XBADJ | TRU19 | -161.87 | -153.97 | -141.40 | -124.52 | -104.62 | -92.23  |
| XBADJ | TRU19 | -120.24 | -146.66 | -169.25 | -186.69 | -198.47 | -204.21 |
| XBADJ | TRU19 | -203.75 | -197.09 | -188.23 | -185.55 | -177.24 | -163.54 |
| XBADJ | TRU19 | -144.87 | -121.80 | -95.03  | -65.37  | -33.73  | -9.22   |
| XBADJ | TRU20 | -35.58  | -60.55  | -83.69  | -104.28 | -121.71 | -135.43 |
| XBADJ | TRU20 | -145.05 | -150.25 | -153.21 | -163.53 | -170.10 | -171.50 |
| XBADJ | TRU20 | -167.69 | -158.79 | -145.06 | -126.92 | -105.69 | -91.93  |
| XBADJ | TRU20 | -118.58 | -143.70 | -165.06 | -181.42 | -192.26 | -197.26 |
| XBADJ | TRU20 | -196.27 | -189.31 | -180.38 | -177.88 | -169.97 | -156.89 |
| XBADJ | TRU20 | -139.05 | -116.99 | -91.37  | -62.97  | -32.66  | -9.52   |
| XBADJ | TRU21 | -36.23  | -61.88  | -85.64  | -106.81 | -124.73 | -138.86 |
| XBADJ | TRU21 | -148.77 | -154.16 | -157.19 | -167.46 | -173.85 | -174.97 |
| XBADJ | TRU21 | -170.77 | -161.38 | -147.09 | -128.32 | -106.42 | -91.97  |
| XBADJ | TRU21 | -117.93 | -142.37 | -163.11 | -178.89 | -189.24 | -193.83 |
| XBADJ | TRU21 | -192.54 | -185.40 | -176.40 | -173.95 | -166.21 | -153.43 |
| XBADJ | TRU21 | -135.98 | -114.40 | -89.34  | -61.57  | -31.93  | -9.48   |
| XBADJ | TRU22 | -37.02  | -63.32  | -87.70  | -109.41 | -127.80 | -142.30 |
| XBADJ | TRU22 | -152.48 | -158.02 | -161.09 | -171.28 | -177.48 | -178.29 |
| XBADJ | TRU22 | -173.68 | -163.79 | -148.93 | -129.54 | -106.98 | -91.85  |
| XBADJ | TRU22 | -117.13 | -140.92 | -161.06 | -176.29 | -186.17 | -190.40 |
| XBADJ | TRU22 | -188.83 | -181.54 | -172.50 | -170.13 | -162.59 | -150.11 |
| XBADJ | TRU22 | -133.07 | -111.98 | -87.50  | -60.35  | -31.37  | -9.60   |
| XBADJ | TRU23 | -37.78  | -64.72  | -89.70  | -111.96 | -130.81 | -145.69 |
| XBADJ | TRU23 | -156.14 | -161.85 | -164.96 | -175.07 | -181.09 | -181.60 |
| XBADJ | TRU23 | -176.59 | -166.22 | -150.80 | -130.79 | -107.57 | -91.77  |
| XBADJ | TRU23 | -116.38 | -139.53 | -159.05 | -173.74 | -183.16 | -187.00 |
| XBADJ | TRU23 | -185.17 | -177.71 | -168.63 | -166.33 | -158.98 | -146.80 |
| XBADJ | TRU23 | -130.16 | -109.56 | -85.63  | -59.10  | -30.78  | -9.68   |
| XBADJ | TRU24 | -38.58  | -66.20  | -91.80  | -114.61 | -133.94 | -149.20 |
| XBADJ | TRU24 | -159.92 | -165.79 | -168.94 | -178.97 | -184.79 | -184.98 |
| XBADJ | TRU24 | -179.56 | -168.69 | -152.68 | -132.04 | -108.15 | -91.65  |
| XBADJ | TRU24 | -115.57 | -138.05 | -156.96 | -171.09 | -180.03 | -183.50 |
| XBADJ | TRU24 | -181.39 | -173.77 | -164.65 | -162.43 | -155.28 | -143.41 |
| XBADJ | TRU24 | -127.18 | -107.09 | -83.75  | -57.85  | -30.21  | -9.80   |
| XBADJ | TRU25 | -39.49  | -67.78  | -94.00  | -117.37 | -137.17 | -152.80 |
| XBADJ | TRU25 | -163.79 | -169.81 | -172.98 | -182.91 | -188.51 | -188.38 |
| XBADJ | TRU25 | -182.52 | -171.12 | -154.52 | -133.23 | -108.64 | -91.44  |
| XBADJ | TRU25 | -114.66 | -136.47 | -154.76 | -168.34 | -176.80 | -179.89 |
| XBADJ | TRU25 | -177.52 | -169.75 | -160.61 | -158.49 | -151.56 | -140.02 |
| XBADJ | TRU25 | -124.22 | -104.66 | -81.91  | -56.67  | -29.71  | -10.01  |
| XBADJ | TRU26 | -40.23  | -69.19  | -96.04  | -119.98 | -140.27 | -156.30 |
| XBADJ | TRU26 | -167.58 | -173.77 | -177.00 | -186.87 | -192.27 | -191.84 |
| XBADJ | TRU26 | -185.58 | -173.68 | -156.50 | -134.56 | -109.30 | -91.40  |
| XBADJ | TRU26 | -113.92 | -135.06 | -152.71 | -165.72 | -173.70 | -176.39 |
| XBADJ | TRU26 | -173.73 | -165.79 | -156.59 | -154.54 | -147.79 | -136.56 |
| XBADJ | TRU26 | -121.17 | -102.10 | -79.93  | -55.33  | -29.05  | -10.05  |
| XBADJ | TRU27 | -41.90  | -72.17  | -100.25 | -125.29 | -146.52 | -163.29 |
| XBADJ | TRU27 | -175.11 | -181.60 | -184.90 | -194.59 | -199.59 | -198.53 |
| XBADJ | TRU27 | -191.44 | -178.52 | -160.19 | -136.98 | -110.37 | -91.10  |
| XBADJ | TRU27 | -112.26 | -132.08 | -148.50 | -160.41 | -167.45 | -169.40 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU27 | -166.20 | -157.96 | -148.69 | -146.81 | -140.47 | -129.86 |
| XBADJ | TRU27 | -115.31 | -97.25  | -76.24  | -52.91  | -27.98  | -10.35  |
| XBADJ | TRU28 | -42.55  | -73.50  | -102.21 | -127.82 | -149.54 | -166.72 |
| XBADJ | TRU28 | -178.84 | -185.52 | -188.88 | -198.52 | -203.35 | -202.00 |
| XBADJ | TRU28 | -194.51 | -181.11 | -162.21 | -138.38 | -111.11 | -91.14  |
| XBADJ | TRU28 | -111.61 | -130.75 | -146.55 | -157.89 | -164.43 | -165.97 |
| XBADJ | TRU28 | -162.48 | -154.04 | -144.71 | -142.88 | -136.72 | -126.40 |
| XBADJ | TRU28 | -112.24 | -94.66  | -74.22  | -51.51  | -27.25  | -10.31  |
| XBADJ | TRU29 | -43.34  | -74.94  | -104.26 | -130.42 | -152.61 | -170.16 |
| XBADJ | TRU29 | -182.54 | -189.38 | -192.78 | -202.34 | -206.97 | -205.32 |
| XBADJ | TRU29 | -197.42 | -183.53 | -164.06 | -139.60 | -111.66 | -91.02  |
| XBADJ | TRU29 | -110.81 | -129.31 | -144.49 | -155.29 | -161.36 | -162.54 |
| XBADJ | TRU29 | -158.77 | -150.18 | -140.81 | -139.06 | -133.09 | -123.08 |
| XBADJ | TRU29 | -109.33 | -92.25  | -72.37  | -50.29  | -26.69  | -10.43  |
| XBADJ | TRU30 | -44.09  | -76.34  | -106.26 | -132.96 | -155.61 | -173.54 |
| XBADJ | TRU30 | -186.20 | -193.19 | -196.64 | -206.13 | -210.57 | -208.62 |
| XBADJ | TRU30 | -200.33 | -185.95 | -165.92 | -140.85 | -112.26 | -90.94  |
| XBADJ | TRU30 | -110.06 | -127.91 | -142.49 | -152.74 | -158.35 | -159.15 |
| XBADJ | TRU30 | -155.12 | -146.37 | -136.95 | -135.28 | -129.49 | -119.78 |
| XBADJ | TRU30 | -106.42 | -89.83  | -70.51  | -49.05  | -26.10  | -10.51  |
| XBADJ | TRU31 | -44.89  | -77.81  | -108.35 | -135.61 | -158.74 | -177.05 |
| XBADJ | TRU31 | -189.98 | -197.14 | -200.63 | -210.04 | -214.28 | -212.02 |
| XBADJ | TRU31 | -203.31 | -188.43 | -167.82 | -142.11 | -112.84 | -90.83  |
| XBADJ | TRU31 | -109.26 | -126.44 | -140.40 | -150.09 | -155.23 | -155.64 |
| XBADJ | TRU31 | -151.33 | -142.42 | -132.96 | -131.37 | -125.78 | -116.38 |
| XBADJ | TRU31 | -103.43 | -87.35  | -68.61  | -47.79  | -25.51  | -10.62  |
| XBADJ | TRU32 | -45.80  | -79.38  | -110.55 | -138.36 | -161.97 | -180.66 |
| XBADJ | TRU32 | -193.85 | -201.16 | -204.67 | -213.98 | -218.01 | -215.41 |
| XBADJ | TRU32 | -206.27 | -190.86 | -169.66 | -143.29 | -113.34 | -90.62  |
| XBADJ | TRU32 | -108.35 | -124.86 | -138.20 | -147.34 | -152.00 | -152.04 |
| XBADJ | TRU32 | -147.46 | -138.40 | -128.92 | -127.43 | -122.06 | -112.98 |
| XBADJ | TRU32 | -100.47 | -84.91  | -66.77  | -46.60  | -25.02  | -10.83  |
| XBADJ | TRU33 | -46.54  | -80.80  | -112.60 | -140.98 | -165.08 | -184.16 |
| XBADJ | TRU33 | -197.64 | -205.12 | -208.69 | -217.93 | -221.77 | -218.87 |
| XBADJ | TRU33 | -209.33 | -193.42 | -171.63 | -144.63 | -113.99 | -90.58  |
| XBADJ | TRU33 | -107.61 | -123.45 | -136.16 | -144.72 | -148.89 | -148.54 |
| XBADJ | TRU33 | -143.67 | -134.44 | -124.90 | -123.47 | -118.29 | -109.52 |
| XBADJ | TRU33 | -97.42  | -82.36  | -64.80  | -45.26  | -24.36  | -10.87  |
| XBADJ | TRU34 | -48.20  | -83.76  | -116.77 | -146.23 | -171.25 | -191.07 |
| XBADJ | TRU34 | -205.08 | -212.86 | -216.49 | -225.56 | -229.00 | -225.47 |
| XBADJ | TRU34 | -215.10 | -198.19 | -175.26 | -147.01 | -115.04 | -90.27  |
| XBADJ | TRU34 | -105.95 | -120.49 | -131.99 | -139.47 | -142.72 | -141.63 |
| XBADJ | TRU34 | -136.23 | -126.70 | -117.10 | -115.85 | -111.07 | -102.92 |
| XBADJ | TRU34 | -91.65  | -77.58  | -61.17  | -42.89  | -23.31  | -11.18  |
| XBADJ | TRU35 | -48.85  | -85.08  | -118.72 | -148.76 | -174.27 | -194.49 |
| XBADJ | TRU35 | -208.80 | -216.77 | -220.47 | -229.49 | -232.75 | -228.94 |
| XBADJ | TRU35 | -218.18 | -200.78 | -177.29 | -148.41 | -115.77 | -90.31  |
| XBADJ | TRU35 | -105.30 | -119.17 | -130.03 | -136.94 | -139.69 | -138.20 |
| XBADJ | TRU35 | -132.51 | -122.79 | -113.12 | -111.92 | -107.32 | -99.45  |
| XBADJ | TRU35 | -88.57  | -74.99  | -59.14  | -41.49  | -22.58  | -11.14  |
| XBADJ | TRU36 | -49.65  | -86.53  | -120.78 | -151.36 | -177.35 | -197.94 |
| XBADJ | TRU36 | -212.52 | -220.64 | -224.38 | -233.32 | -236.38 | -232.27 |
| XBADJ | TRU36 | -221.09 | -203.20 | -179.14 | -149.63 | -116.33 | -90.19  |
| XBADJ | TRU36 | -104.51 | -117.72 | -127.97 | -134.34 | -136.62 | -134.76 |
| XBADJ | TRU36 | -128.79 | -118.92 | -109.21 | -108.09 | -103.68 | -96.13  |
| XBADJ | TRU36 | -85.65  | -72.57  | -57.29  | -40.26  | -22.02  | -11.26  |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU37 | -50.39  | -87.92  | -122.77 | -153.90 | -180.35 | -201.32 |
| XBADJ | TRU37 | -216.17 | -224.46 | -228.24 | -237.11 | -239.99 | -235.58 |
| XBADJ | TRU37 | -224.01 | -205.63 | -181.01 | -150.88 | -116.94 | -90.12  |
| XBADJ | TRU37 | -103.77 | -116.33 | -125.98 | -131.80 | -133.62 | -131.38 |
| XBADJ | TRU37 | -125.14 | -115.10 | -105.35 | -104.30 | -100.08 | -92.82  |
| XBADJ | TRU37 | -82.74  | -70.15  | -55.42  | -39.01  | -21.42  | -11.33  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU38 | -51.20  | -89.39  | -124.87 | -156.55 | -183.47 | -204.82 |
| XBADJ | TRU38 | -219.95 | -228.40 | -232.22 | -241.00 | -243.69 | -238.96 |
| XBADJ | TRU38 | -226.98 | -208.10 | -182.89 | -152.13 | -117.51 | -90.00  |
| XBADJ | TRU38 | -102.96 | -114.86 | -123.89 | -129.15 | -130.49 | -127.87 |
| XBADJ | TRU38 | -121.36 | -111.16 | -101.37 | -100.40 | -96.38  | -89.43  |
| XBADJ | TRU38 | -79.77  | -67.68  | -53.53  | -37.76  | -20.84  | -11.45  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU39 | -52.11  | -90.97  | -127.07 | -159.31 | -186.71 | -208.44 |
| XBADJ | TRU39 | -223.83 | -232.42 | -236.27 | -244.96 | -247.42 | -242.36 |
| XBADJ | TRU39 | -229.95 | -210.54 | -184.74 | -153.32 | -118.01 | -89.79  |
| XBADJ | TRU39 | -102.05 | -113.28 | -121.68 | -126.39 | -127.26 | -124.26 |
| XBADJ | TRU39 | -117.48 | -107.14 | -97.32  | -96.45  | -92.65  | -86.03  |
| XBADJ | TRU39 | -76.80  | -65.24  | -51.69  | -36.57  | -20.35  | -11.66  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU40 | -52.85  | -92.38  | -129.12 | -161.93 | -189.82 | -211.94 |
| XBADJ | TRU40 | -227.62 | -236.39 | -240.29 | -248.91 | -251.18 | -245.83 |
| XBADJ | TRU40 | -233.00 | -213.09 | -186.71 | -154.66 | -118.66 | -89.75  |
| XBADJ | TRU40 | -101.31 | -111.86 | -119.64 | -123.77 | -124.15 | -120.76 |
| XBADJ | TRU40 | -113.69 | -103.17 | -93.30  | -92.50  | -88.88  | -82.57  |
| XBADJ | TRU40 | -73.75  | -62.68  | -49.72  | -35.24  | -19.69  | -11.70  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU41 | -54.58  | -95.40  | -133.33 | -167.21 | -196.00 | -218.84 |
| XBADJ | TRU41 | -235.04 | -244.09 | -248.04 | -256.47 | -258.33 | -252.34 |
| XBADJ | TRU41 | -238.69 | -217.78 | -190.25 | -156.94 | -119.63 | -89.36  |
| XBADJ | TRU41 | -99.58  | -108.85 | -115.42 | -118.49 | -117.96 | -113.85 |
| XBADJ | TRU41 | -106.28 | -95.47  | -85.55  | -84.93  | -81.73  | -76.05  |
| XBADJ | TRU41 | -68.06  | -58.00  | -46.18  | -32.95  | -18.73  | -12.09  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU42 | -55.24  | -96.74  | -135.29 | -169.74 | -199.03 | -222.28 |
| XBADJ | TRU42 | -238.77 | -248.00 | -252.02 | -260.40 | -262.08 | -255.80 |
| XBADJ | TRU42 | -241.75 | -220.36 | -192.27 | -158.33 | -120.35 | -89.39  |
| XBADJ | TRU42 | -98.92  | -107.51 | -113.46 | -115.96 | -114.93 | -110.42 |
| XBADJ | TRU42 | -102.55 | -91.56  | -81.57  | -81.01  | -77.98  | -72.59  |
| XBADJ | TRU42 | -64.99  | -55.42  | -44.16  | -31.56  | -18.01  | -12.06  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU43 | -56.02  | -98.18  | -137.34 | -172.34 | -202.10 | -225.72 |
| XBADJ | TRU43 | -242.48 | -251.87 | -255.93 | -264.23 | -265.72 | -259.14 |
| XBADJ | TRU43 | -244.68 | -222.79 | -194.13 | -159.57 | -120.92 | -89.28  |
| XBADJ | TRU43 | -98.13  | -106.07 | -111.41 | -113.36 | -111.87 | -106.98 |
| XBADJ | TRU43 | -98.83  | -87.69  | -77.66  | -77.18  | -74.35  | -69.26  |
| XBADJ | TRU43 | -62.07  | -52.99  | -42.30  | -30.33  | -17.43  | -12.17  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU44 | -56.77  | -99.57  | -139.34 | -174.88 | -205.11 | -229.10 |
| XBADJ | TRU44 | -246.13 | -255.69 | -259.79 | -268.02 | -269.32 | -262.44 |
| XBADJ | TRU44 | -247.58 | -225.21 | -195.99 | -160.81 | -121.51 | -89.20  |
| XBADJ | TRU44 | -97.38  | -104.68 | -109.41 | -110.82 | -108.86 | -103.59 |
| XBADJ | TRU44 | -95.18  | -83.87  | -73.80  | -73.39  | -70.75  | -65.96  |
| XBADJ | TRU44 | -59.16  | -50.57  | -40.44  | -29.08  | -16.84  | -12.25  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU45 | -57.58  | -101.05 | -141.44 | -177.53 | -208.23 | -232.61 |
| XBADJ | TRU45 | -249.91 | -259.63 | -263.77 | -271.91 | -273.02 | -265.82 |
| XBADJ | TRU45 | -250.56 | -227.67 | -197.87 | -162.06 | -122.08 | -89.08  |
| XBADJ | TRU45 | -96.57  | -103.20 | -107.32 | -108.17 | -105.73 | -100.09 |
| XBADJ | TRU45 | -91.40  | -79.93  | -69.82  | -69.49  | -67.05  | -62.57  |
| XBADJ | TRU45 | -56.19  | -48.10  | -38.56  | -27.84  | -16.27  | -12.37  |
|       |       |         |         |         |         |         |         |
| XBADJ | TRU46 | -58.49  | -102.63 | -143.64 | -180.30 | -211.47 | -236.22 |
| XBADJ | TRU46 | -253.79 | -263.65 | -267.82 | -275.87 | -276.75 | -269.23 |
| XBADJ | TRU46 | -253.52 | -230.12 | -199.72 | -163.25 | -122.58 | -88.87  |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TRU46 | -95.66  | -101.62 | -105.11 | -105.40 | -102.50 | -96.47  |
| XBADJ | TRU46 | -87.52  | -75.91  | -65.77  | -65.54  | -63.32  | -59.17  |
| XBADJ | TRU46 | -53.22  | -45.66  | -36.71  | -26.65  | -15.77  | -12.58  |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP1  | 13.05   | 3.95    | -5.26   | -14.31  | -22.93  | -30.85  |
| XBADJ | TTP1  | -37.83  | -43.66  | 0.00    | 0.00    | -84.27  | -98.17  |
| XBADJ | TTP1  | -109.10 | -116.71 | -120.77 | -121.17 | -118.64 | -123.19 |
| XBADJ | TTP1  | -167.20 | -208.20 | -243.50 | -271.39 | -291.04 | -301.85 |
| XBADJ | TTP1  | -303.48 | -295.90 | 0.00    | 0.00    | -255.80 | -230.22 |
| XBADJ | TTP1  | -197.65 | -159.07 | -115.66 | -68.73  | -19.71  | 21.74   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP2  | 12.42   | 2.84    | -6.82   | -16.28  | -25.24  | -33.44  |
| XBADJ | TTP2  | -40.61  | -46.56  | 0.00    | 0.00    | -86.97  | -100.64 |
| XBADJ | TTP2  | -111.26 | -118.49 | -122.13 | -122.05 | -119.03 | -123.07 |
| XBADJ | TTP2  | -166.57 | -207.09 | -241.93 | -269.42 | -288.73 | -299.26 |
| XBADJ | TTP2  | -300.70 | -293.00 | 0.00    | 0.00    | -253.10 | -227.75 |
| XBADJ | TTP2  | -195.49 | -157.28 | -114.30 | -67.84  | -19.32  | 21.62   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP3  | 11.89   | 1.80    | -8.35   | -18.24  | -27.58  | -36.08  |
| XBADJ | TTP3  | -43.48  | -49.56  | 0.00    | 0.00    | -89.84  | -103.28 |
| XBADJ | TTP3  | -113.60 | -120.45 | -123.65 | -123.10 | -119.56 | -123.07 |
| XBADJ | TTP3  | -166.04 | -206.05 | -240.41 | -267.46 | -286.39 | -296.62 |
| XBADJ | TTP3  | -297.83 | -290.00 | 0.00    | 0.00    | -250.23 | -225.11 |
| XBADJ | TTP3  | -193.15 | -155.32 | -112.77 | -66.80  | -18.80  | 21.62   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP4  | 11.10   | 0.48    | -10.14  | -20.46  | -30.16  | -38.94  |
| XBADJ | TTP4  | -46.54  | -52.72  | 0.00    | 0.00    | -92.72  | -105.90 |
| XBADJ | TTP4  | -115.86 | -122.29 | -125.02 | -123.94 | -119.86 | -122.82 |
| XBADJ | TTP4  | -165.25 | -204.73 | -238.61 | -265.24 | -283.81 | -293.76 |
| XBADJ | TTP4  | -294.78 | -286.84 | 0.00    | 0.00    | -247.35 | -222.50 |
| XBADJ | TTP4  | -190.89 | -153.48 | -111.41 | -65.95  | -18.49  | 21.37   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP5  | 10.45   | -0.67   | -11.77  | -22.51  | -32.57  | -41.64  |
| XBADJ | TTP5  | -49.44  | -55.74  | 0.00    | 0.00    | -95.54  | -108.48 |
| XBADJ | TTP5  | -118.11 | -124.16 | -126.44 | -124.87 | -120.27 | -122.70 |
| XBADJ | TTP5  | -164.60 | -203.58 | -236.98 | -263.19 | -281.40 | -291.06 |
| XBADJ | TTP5  | -291.87 | -283.82 | 0.00    | 0.00    | -244.52 | -219.92 |
| XBADJ | TTP5  | -188.63 | -151.61 | -109.99 | -65.02  | -18.08  | 21.25   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP6  | 10.06   | -1.56   | -13.13  | -24.30  | -34.73  | -44.11  |
| XBADJ | TTP6  | -52.15  | -58.60  | 0.00    | 0.00    | -98.33  | -111.07 |
| XBADJ | TTP6  | -120.43 | -126.13 | -128.00 | -125.98 | -120.90 | -122.82 |
| XBADJ | TTP6  | -164.21 | -202.69 | -235.63 | -261.40 | -279.24 | -288.59 |
| XBADJ | TTP6  | -289.17 | -280.96 | 0.00    | 0.00    | -241.74 | -217.33 |
| XBADJ | TTP6  | -186.32 | -149.65 | -108.43 | -63.91  | -17.46  | 21.37   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP7  | 9.32    | -2.78   | -14.80  | -26.36  | -37.12  | -46.76  |
| XBADJ | TTP7  | -54.97  | -61.52  | 0.00    | 0.00    | -100.99 | -113.47 |
| XBADJ | TTP7  | -122.51 | -127.82 | -129.25 | -126.76 | -121.17 | -122.58 |
| XBADJ | TTP7  | -163.47 | -201.47 | -233.96 | -259.34 | -276.85 | -285.94 |
| XBADJ | TTP7  | -286.34 | -278.04 | 0.00    | 0.00    | -239.08 | -214.92 |
| XBADJ | TTP7  | -184.24 | -147.95 | -107.17 | -63.14  | -17.19  | 21.13   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP8  | 8.69    | -3.90   | -16.36  | -28.33  | -39.44  | -49.35  |
| XBADJ | TTP8  | -57.77  | -64.42  | 0.00    | 0.00    | -103.70 | -115.95 |
| XBADJ | TTP8  | -124.68 | -129.62 | -130.62 | -127.65 | -121.56 | -122.46 |
| XBADJ | TTP8  | -162.84 | -200.35 | -232.39 | -257.37 | -274.52 | -283.34 |
| XBADJ | TTP8  | -283.55 | -275.14 | 0.00    | 0.00    | -236.36 | -212.44 |
| XBADJ | TTP8  | -182.07 | -146.16 | -105.81 | -62.25  | -16.79  | 21.01   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP9  | 8.16    | -4.94   | -17.88  | -30.29  | -41.77  | -51.99  |
| XBADJ | TTP9  | -60.62  | -67.42  | 0.00    | 0.00    | -106.56 | -118.59 |
| XBADJ | TTP9  | -127.01 | -131.57 | -132.14 | -128.69 | -122.08 | -122.46 |
| XBADJ | TTP9  | -162.32 | -199.31 | -230.87 | -255.41 | -272.20 | -280.71 |
| XBADJ | TTP9  | -280.69 | -272.14 | 0.00    | 0.00    | -233.51 | -209.81 |
| XBADJ | TTP9  | -179.74 | -144.21 | -104.29 | -61.21  | -16.27  | 21.01   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP10 | 7.36    | -6.26   | -19.69  | -32.52  | -44.36  | -54.86  |
| XBADJ | TTP10 | -63.69  | -70.58  | 0.00    | 0.00    | -109.45 | -121.21 |
| XBADJ | TTP10 | -129.27 | -133.42 | -133.50 | -129.53 | -122.39 | -122.21 |
| XBADJ | TTP10 | -161.52 | -197.99 | -229.07 | -253.18 | -269.61 | -277.84 |
| XBADJ | TTP10 | -277.63 | -268.98 | 0.00    | 0.00    | -230.61 | -207.19 |
| XBADJ | TTP10 | -177.47 | -142.36 | -102.92 | -60.36  | -15.96  | 20.76   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP11 | 6.72    | -7.41   | -21.31  | -34.56  | -46.77  | -57.55  |
| XBADJ | TTP11 | -66.58  | -73.60  | 0.00    | -97.35  | -112.27 | -123.78 |
| XBADJ | TTP11 | -131.53 | -135.28 | -134.92 | -130.46 | -122.80 | -122.09 |
| XBADJ | TTP11 | -160.87 | -196.84 | -227.44 | -251.14 | -267.20 | -275.14 |
| XBADJ | TTP11 | -274.73 | -265.96 | 0.00    | -244.06 | -227.80 | -204.62 |
| XBADJ | TTP11 | -175.22 | -140.50 | -101.51 | -59.43  | -15.55  | 20.64   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP12 | 6.33    | -8.29   | -22.67  | -36.35  | -48.93  | -60.02  |
| XBADJ | TTP12 | -69.29  | -76.45  | 0.00    | -100.24 | -115.05 | -126.37 |
| XBADJ | TTP12 | -133.84 | -137.25 | -136.48 | -131.57 | -123.42 | -122.21 |
| XBADJ | TTP12 | -160.48 | -195.95 | -226.09 | -249.35 | -265.04 | -272.68 |
| XBADJ | TTP12 | -272.03 | -263.11 | 0.00    | -241.16 | -225.01 | -202.03 |
| XBADJ | TTP12 | -172.91 | -138.53 | -99.94  | -58.32  | -14.93  | 20.76   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP13 | 5.64    | -9.53   | -24.42  | -38.56  | -51.52  | -62.93  |
| XBADJ | TTP13 | -72.42  | -79.71  | 0.00    | -103.46 | -118.10 | -129.16 |
| XBADJ | TTP13 | -136.28 | -139.27 | -138.02 | -132.59 | -123.88 | -122.09 |
| XBADJ | TTP13 | -159.79 | -194.72 | -224.34 | -247.15 | -262.44 | -269.77 |
| XBADJ | TTP13 | -268.89 | -259.85 | 0.00    | -237.94 | -221.96 | -199.24 |
| XBADJ | TTP13 | -170.46 | -136.51 | -98.40  | -57.31  | -14.47  | 20.64   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP14 | 5.01    | -10.64  | -25.98  | -40.52  | -53.84  | -65.52  |
| XBADJ | TTP14 | -75.20  | -82.61  | 0.00    | -106.32 | -120.81 | -131.62 |
| XBADJ | TTP14 | -138.44 | -141.06 | -139.38 | -133.47 | -124.27 | -121.97 |
| XBADJ | TTP14 | -159.17 | -193.60 | -222.77 | -245.18 | -260.13 | -267.18 |
| XBADJ | TTP14 | -266.11 | -256.95 | 0.00    | -235.09 | -219.26 | -196.77 |
| XBADJ | TTP14 | -168.30 | -134.72 | -97.05  | -56.42  | -14.09  | 20.52   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP15 | 4.48    | -11.69  | -27.50  | -42.49  | -56.18  | -68.16  |
| XBADJ | TTP15 | -78.07  | -85.61  | 0.00    | -109.32 | -123.67 | -134.27 |
| XBADJ | TTP15 | -140.78 | -143.02 | -140.91 | -134.51 | -124.80 | -121.97 |
| XBADJ | TTP15 | -158.64 | -192.56 | -221.25 | -243.22 | -257.79 | -264.54 |
| XBADJ | TTP15 | -263.24 | -253.95 | 0.00    | -232.08 | -216.39 | -194.13 |
| XBADJ | TTP15 | -165.97 | -132.76 | -95.52  | -55.38  | -13.56  | 20.52   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP16 | 3.70    | -12.99  | -29.29  | -44.70  | -58.75  | -71.02  |
| XBADJ | TTP16 | -81.12  | -88.76  | 0.00    | -112.39 | -126.56 | -136.88 |
| XBADJ | TTP16 | -143.05 | -144.86 | -142.28 | -135.37 | -125.11 | -121.73 |
| XBADJ | TTP16 | -157.85 | -191.25 | -219.46 | -241.00 | -255.22 | -261.68 |
| XBADJ | TTP16 | -260.19 | -250.80 | 0.00    | -229.01 | -213.51 | -191.51 |
| XBADJ | TTP16 | -163.70 | -130.91 | -94.15  | -54.53  | -13.24  | 20.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP17 | 3.05    | -14.15  | -30.92  | -46.75  | -61.16  | -73.72  |
| XBADJ | TTP17 | -84.03  | -91.79  | 0.00    | -115.38 | -129.39 | -139.46 |
| XBADJ | TTP17 | -145.31 | -146.73 | -143.70 | -136.30 | -125.52 | -121.61 |
| XBADJ | TTP17 | -157.21 | -190.10 | -217.83 | -238.95 | -252.80 | -258.98 |
| XBADJ | TTP17 | -257.28 | -247.77 | 0.00    | -226.03 | -210.68 | -188.93 |
| XBADJ | TTP17 | -161.44 | -129.05 | -92.73  | -53.59  | -12.83  | 20.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP18 | 2.66    | -15.04  | -32.28  | -48.54  | -63.32  | -76.19  |
| XBADJ | TTP18 | -86.73  | -94.64  | 0.00    | -118.27 | -132.17 | -142.05 |
| XBADJ | TTP18 | -147.62 | -148.70 | -145.26 | -137.41 | -126.14 | -121.73 |
| XBADJ | TTP18 | -156.82 | -189.21 | -216.48 | -237.16 | -250.64 | -256.51 |
| XBADJ | TTP18 | -254.58 | -244.92 | 0.00    | -223.13 | -207.90 | -186.34 |
| XBADJ | TTP18 | -159.13 | -127.08 | -91.17  | -52.48  | -12.21  | 20.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP19 | 1.85    | -16.40  | -34.14  | -50.84  | -66.00  | -79.16  |
| XBADJ | TTP19 | -89.91  | -97.93  | 0.00    | -121.47 | -135.18 | -144.78 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP19 | -149.98 | -150.62 | -146.69 | -138.30 | -126.47 | -121.48 |
| XBADJ | TTP19 | -156.00 | -187.85 | -214.62 | -234.86 | -247.96 | -253.54 |
| XBADJ | TTP19 | -251.40 | -241.63 | 0.00    | -219.94 | -204.89 | -183.62 |
| XBADJ | TTP19 | -156.77 | -125.15 | -89.74  | -51.59  | -11.88  | 20.03   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP20 | 1.22    | -17.51  | -35.70  | -52.81  | -68.32  | -81.75  |
| XBADJ | TTP20 | -92.69  | -100.82 | 0.00    | -124.32 | -137.88 | -147.25 |
| XBADJ | TTP20 | -152.14 | -152.41 | -148.05 | -139.19 | -126.86 | -121.36 |
| XBADJ | TTP20 | -155.37 | -186.74 | -213.05 | -232.89 | -245.65 | -250.95 |
| XBADJ | TTP20 | -248.62 | -238.74 | 0.00    | -217.08 | -202.19 | -181.15 |
| XBADJ | TTP20 | -154.61 | -123.37 | -88.38  | -50.71  | -11.49  | 19.91   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP21 | 0.69    | -18.55  | -37.23  | -54.77  | -70.65  | -84.39  |
| XBADJ | TTP21 | -95.56  | -103.83 | 0.00    | -127.33 | -140.75 | -149.89 |
| XBADJ | TTP21 | -154.48 | -154.37 | -149.57 | -140.23 | -127.39 | -121.36 |
| XBADJ | TTP21 | -154.85 | -185.70 | -211.53 | -230.93 | -243.31 | -248.30 |
| XBADJ | TTP21 | -245.75 | -235.73 | 0.00    | -214.08 | -199.32 | -178.51 |
| XBADJ | TTP21 | -152.27 | -121.41 | -86.86  | -49.66  | -10.96  | 19.91   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP22 | -0.09   | -19.86  | -39.02  | -56.99  | -73.23  | -87.25  |
| XBADJ | TTP22 | -98.61  | -106.98 | 0.00    | -130.40 | -143.63 | -152.50 |
| XBADJ | TTP22 | -156.74 | -156.22 | -150.94 | -141.09 | -127.70 | -121.12 |
| XBADJ | TTP22 | -154.06 | -184.39 | -209.74 | -228.71 | -240.74 | -245.45 |
| XBADJ | TTP22 | -242.70 | -232.58 | 0.00    | -211.01 | -196.43 | -175.89 |
| XBADJ | TTP22 | -150.01 | -119.56 | -85.48  | -48.81  | -10.65  | 19.67   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP23 | -0.74   | -21.01  | -40.64  | -59.04  | -75.64  | -89.95  |
| XBADJ | TTP23 | -101.52 | -110.01 | 0.00    | -133.38 | -146.46 | -155.09 |
| XBADJ | TTP23 | -159.00 | -158.09 | -152.37 | -142.02 | -128.11 | -121.00 |
| XBADJ | TTP23 | -153.41 | -183.24 | -208.11 | -226.66 | -238.32 | -242.75 |
| XBADJ | TTP23 | -239.79 | -229.55 | 0.00    | -208.02 | -193.61 | -173.31 |
| XBADJ | TTP23 | -147.75 | -117.69 | -84.06  | -47.88  | -10.24  | 19.55   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP24 | -1.13   | -21.90  | -42.00  | -60.83  | -77.80  | -92.42  |
| XBADJ | TTP24 | -104.22 | -112.86 | 0.00    | -136.28 | -149.24 | -157.67 |
| XBADJ | TTP24 | -161.31 | -160.05 | -153.93 | -143.13 | -128.74 | -121.12 |
| XBADJ | TTP24 | -153.02 | -182.35 | -206.75 | -224.88 | -236.16 | -240.28 |
| XBADJ | TTP24 | -237.09 | -226.70 | 0.00    | -205.13 | -190.82 | -170.72 |
| XBADJ | TTP24 | -145.43 | -115.72 | -82.50  | -46.77  | -9.61   | 19.67   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP25 | -1.74   | -22.97  | -43.50  | -62.72  | -80.03  | -94.90  |
| XBADJ | TTP25 | -106.89 | -115.64 | 0.00    | -139.01 | -151.83 | -160.04 |
| XBADJ | TTP25 | -163.38 | -161.76 | -155.23 | -143.97 | -129.10 | -121.00 |
| XBADJ | TTP25 | -152.42 | -181.28 | -205.25 | -222.98 | -233.94 | -237.79 |
| XBADJ | TTP25 | -234.42 | -223.92 | 0.00    | -202.39 | -188.23 | -168.36 |
| XBADJ | TTP25 | -143.36 | -114.02 | -81.20  | -45.92  | -9.25   | 19.55   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP26 | -2.36   | -24.08  | -45.07  | -64.69  | -82.34  | -97.49  |
| XBADJ | TTP26 | -109.68 | -118.54 | 0.00    | -141.87 | -154.54 | -162.51 |
| XBADJ | TTP26 | -165.54 | -163.55 | -156.58 | -144.86 | -129.49 | -120.88 |
| XBADJ | TTP26 | -151.79 | -180.17 | -203.69 | -221.02 | -231.63 | -235.20 |
| XBADJ | TTP26 | -231.63 | -221.02 | 0.00    | -199.54 | -185.53 | -165.89 |
| XBADJ | TTP26 | -141.20 | -112.23 | -79.85  | -45.04  | -8.86   | 19.43   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP27 | -2.89   | -25.12  | -46.59  | -66.65  | -84.68  | -100.13 |
| XBADJ | TTP27 | -112.55 | -121.54 | 0.00    | -144.87 | -157.40 | -165.15 |
| XBADJ | TTP27 | -167.88 | -165.51 | -158.11 | -145.90 | -130.02 | -120.88 |
| XBADJ | TTP27 | -151.26 | -179.12 | -202.16 | -219.05 | -229.29 | -232.56 |
| XBADJ | TTP27 | -228.77 | -218.02 | 0.00    | -196.53 | -182.66 | -163.25 |
| XBADJ | TTP27 | -138.87 | -110.27 | -78.32  | -43.99  | -8.33   | 19.43   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP28 | -3.69   | -26.44  | -48.39  | -68.87  | -87.26  | -102.99 |
| XBADJ | TTP28 | -115.60 | -124.69 | 0.00    | -147.94 | -160.29 | -167.76 |
| XBADJ | TTP28 | -170.14 | -167.35 | -159.47 | -146.75 | -130.33 | -120.63 |
| XBADJ | TTP28 | -150.47 | -177.81 | -200.36 | -216.83 | -226.71 | -229.70 |
| XBADJ | TTP28 | -225.71 | -214.87 | 0.00    | -193.46 | -179.78 | -160.63 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP28 | -136.61 | -108.43 | -76.96  | -43.15  | -8.03   | 19.18   |
| XBADJ | TTP29 | -4.33   | -27.60  | -50.02  | -70.92  | -89.67  | -105.69 |
| XBADJ | TTP29 | -118.51 | -127.72 | 0.00    | -150.92 | -163.11 | -170.34 |
| XBADJ | TTP29 | -172.40 | -169.22 | -160.89 | -147.68 | -130.74 | -120.51 |
| XBADJ | TTP29 | -149.82 | -176.65 | -198.74 | -214.78 | -224.30 | -227.00 |
| XBADJ | TTP29 | -222.81 | -211.84 | 0.00    | -190.48 | -176.96 | -158.05 |
| XBADJ | TTP29 | -134.35 | -106.56 | -75.54  | -42.22  | -7.61   | 19.06   |
| XBADJ | TTP30 | -4.72   | -28.48  | -51.37  | -72.71  | -91.83  | -108.16 |
| XBADJ | TTP30 | -121.21 | -130.57 | 0.00    | -153.82 | -165.90 | -172.93 |
| XBADJ | TTP30 | -174.71 | -171.18 | -162.46 | -148.79 | -131.36 | -120.63 |
| XBADJ | TTP30 | -149.43 | -175.77 | -197.38 | -212.99 | -222.14 | -224.53 |
| XBADJ | TTP30 | -220.10 | -208.99 | 0.00    | -187.59 | -174.17 | -155.46 |
| XBADJ | TTP30 | -132.03 | -104.59 | -73.97  | -41.11  | -6.99   | 19.18   |
| XBADJ | TTP31 | -5.18   | -29.49  | -52.92  | -74.73  | -94.27  | -110.95 |
| XBADJ | TTP31 | -124.26 | -133.79 | 0.00    | -157.08 | -169.03 | -175.84 |
| XBADJ | TTP31 | -177.31 | -173.39 | -164.20 | -150.03 | -132.05 | -120.75 |
| XBADJ | TTP31 | -148.98 | -174.75 | -195.84 | -210.97 | -219.69 | -221.74 |
| XBADJ | TTP31 | -217.05 | -205.77 | 0.00    | -184.32 | -171.04 | -152.56 |
| XBADJ | TTP31 | -129.44 | -102.39 | -72.22  | -39.87  | -6.30   | 19.30   |
| XBADJ | TTP32 | -5.80   | -30.61  | -54.48  | -76.70  | -96.59  | -113.54 |
| XBADJ | TTP32 | -127.05 | -136.69 | 0.00    | -159.94 | -171.73 | -178.31 |
| XBADJ | TTP32 | -179.47 | -175.18 | -165.56 | -150.91 | -132.44 | -120.63 |
| XBADJ | TTP32 | -148.35 | -173.64 | -194.27 | -209.00 | -217.38 | -219.15 |
| XBADJ | TTP32 | -214.27 | -202.87 | 0.00    | -181.47 | -168.34 | -150.09 |
| XBADJ | TTP32 | -127.28 | -100.60 | -70.87  | -38.98  | -5.91   | 19.18   |
| XBADJ | TTP33 | -6.33   | -31.65  | -56.00  | -78.66  | -98.92  | -116.18 |
| XBADJ | TTP33 | -129.91 | -139.69 | 0.00    | -162.94 | -174.60 | -180.95 |
| XBADJ | TTP33 | -181.81 | -177.14 | -167.09 | -151.96 | -132.97 | -120.63 |
| XBADJ | TTP33 | -147.82 | -172.60 | -192.75 | -207.04 | -215.04 | -216.51 |
| XBADJ | TTP33 | -211.40 | -199.87 | 0.00    | -178.47 | -165.47 | -147.45 |
| XBADJ | TTP33 | -124.94 | -98.64  | -69.34  | -37.94  | -5.38   | 19.18   |
| XBADJ | TTP34 | -7.12   | -32.95  | -57.79  | -80.87  | -101.50 | -119.04 |
| XBADJ | TTP34 | -132.96 | -142.85 | 0.00    | -166.01 | -177.48 | -183.57 |
| XBADJ | TTP34 | -184.07 | -178.98 | -168.46 | -152.81 | -133.28 | -120.39 |
| XBADJ | TTP34 | -147.04 | -171.29 | -190.96 | -204.83 | -212.47 | -213.66 |
| XBADJ | TTP34 | -208.35 | -196.71 | 0.00    | -175.40 | -162.58 | -144.83 |
| XBADJ | TTP34 | -122.67 | -96.79  | -67.97  | -37.08  | -5.07   | 18.94   |
| XBADJ | TTP35 | -7.76   | -34.11  | -59.42  | -82.93  | -103.91 | -121.74 |
| XBADJ | TTP35 | -135.87 | -145.87 | 0.00    | -168.99 | -180.31 | -186.15 |
| XBADJ | TTP35 | -186.33 | -180.85 | -169.88 | -153.74 | -133.69 | -120.27 |
| XBADJ | TTP35 | -146.39 | -170.14 | -189.33 | -202.77 | -210.06 | -210.95 |
| XBADJ | TTP35 | -205.44 | -193.69 | 0.00    | -172.41 | -159.76 | -142.25 |
| XBADJ | TTP35 | -120.42 | -94.92  | -66.55  | -36.15  | -4.66   | 18.82   |
| XBADJ | TTP36 | -8.15   | -35.00  | -60.78  | -84.71  | -106.07 | -124.21 |
| XBADJ | TTP36 | -138.57 | -148.73 | 0.00    | -171.89 | -183.09 | -188.74 |
| XBADJ | TTP36 | -188.65 | -182.82 | -171.44 | -154.85 | -134.32 | -120.39 |
| XBADJ | TTP36 | -146.00 | -169.25 | -187.98 | -200.99 | -207.90 | -208.48 |
| XBADJ | TTP36 | -202.74 | -190.83 | 0.00    | -169.52 | -156.97 | -139.66 |
| XBADJ | TTP36 | -118.10 | -92.96  | -64.99  | -35.04  | -4.03   | 18.94   |
| XBADJ | TTP37 | -8.99   | -36.40  | -62.70  | -87.10  | -108.85 | -127.29 |
| XBADJ | TTP37 | -141.86 | -152.13 | 0.00    | -175.20 | -186.21 | -191.57 |
| XBADJ | TTP37 | -191.10 | -184.82 | -172.93 | -155.79 | -134.67 | -120.14 |
| XBADJ | TTP37 | -145.16 | -167.85 | -186.06 | -198.61 | -205.12 | -205.41 |
| XBADJ | TTP37 | -199.45 | -187.43 | 0.00    | -166.20 | -153.85 | -136.83 |
| XBADJ | TTP37 | -115.65 | -90.96  | -63.50  | -34.11  | -3.69   | 18.69   |
| XBADJ | TTP38 | -9.62   | -37.51  | -64.26  | -89.06  | -111.16 | -129.88 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP38 | -144.65 | -155.02 | 0.00    | -178.06 | -188.92 | -194.03 |
| XBADJ | TTP38 | -193.26 | -186.61 | -174.29 | -156.67 | -135.05 | -120.02 |
| XBADJ | TTP38 | -144.54 | -166.74 | -184.49 | -196.64 | -202.81 | -202.82 |
| XBADJ | TTP38 | -196.66 | -184.54 | 0.00    | -163.35 | -151.15 | -134.36 |
| XBADJ | TTP38 | -113.49 | -89.17  | -62.14  | -33.22  | -3.30   | 18.57   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP39 | -10.15  | -38.55  | -65.79  | -91.02  | -113.50 | -132.52 |
| XBADJ | TTP39 | -147.51 | -158.03 | 0.00    | -181.06 | -191.78 | -196.68 |
| XBADJ | TTP39 | -195.59 | -188.57 | -175.81 | -157.72 | -135.58 | -120.02 |
| XBADJ | TTP39 | -144.01 | -165.70 | -182.97 | -194.68 | -200.47 | -200.18 |
| XBADJ | TTP39 | -193.80 | -181.53 | 0.00    | -160.34 | -148.28 | -131.72 |
| XBADJ | TTP39 | -111.15 | -87.21  | -60.62  | -32.18  | -2.77   | 18.57   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP40 | -10.93  | -39.86  | -67.58  | -93.24  | -116.07 | -135.37 |
| XBADJ | TTP40 | -150.57 | -161.18 | 0.00    | -184.13 | -194.67 | -199.29 |
| XBADJ | TTP40 | -197.86 | -190.41 | -177.18 | -158.57 | -135.90 | -119.78 |
| XBADJ | TTP40 | -143.22 | -164.39 | -181.18 | -192.46 | -197.90 | -197.32 |
| XBADJ | TTP40 | -190.75 | -178.38 | 0.00    | -157.27 | -145.40 | -129.10 |
| XBADJ | TTP40 | -108.89 | -85.36  | -59.24  | -31.33  | -2.45   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP41 | -11.58  | -41.01  | -69.20  | -95.29  | -118.48 | -138.08 |
| XBADJ | TTP41 | -153.47 | -164.21 | 0.00    | -187.12 | -197.49 | -201.87 |
| XBADJ | TTP41 | -200.12 | -192.28 | -178.61 | -159.50 | -136.31 | -119.66 |
| XBADJ | TTP41 | -142.58 | -163.23 | -179.55 | -190.41 | -195.48 | -194.62 |
| XBADJ | TTP41 | -187.84 | -175.35 | 0.00    | -154.29 | -142.57 | -126.52 |
| XBADJ | TTP41 | -106.63 | -83.49  | -57.82  | -30.39  | -2.04   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP42 | -11.97  | -41.90  | -70.56  | -97.08  | -120.64 | -140.54 |
| XBADJ | TTP42 | -156.18 | -167.06 | 0.00    | -190.01 | -200.28 | -204.46 |
| XBADJ | TTP42 | -202.43 | -194.25 | -180.17 | -160.61 | -136.93 | -119.78 |
| XBADJ | TTP42 | -142.19 | -162.35 | -178.19 | -188.62 | -193.32 | -192.15 |
| XBADJ | TTP42 | -185.14 | -172.50 | 0.00    | -151.39 | -139.79 | -123.93 |
| XBADJ | TTP42 | -104.31 | -81.52  | -56.26  | -29.28  | -1.42   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP43 | -12.45  | -42.86  | -71.96  | -98.88  | -122.79 | -142.97 |
| XBADJ | TTP43 | -158.81 | -169.82 | 0.00    | -192.77 | -202.91 | -206.89 |
| XBADJ | TTP43 | -204.58 | -196.05 | -181.57 | -161.57 | -137.42 | -119.78 |
| XBADJ | TTP43 | -141.70 | -161.39 | -176.79 | -186.82 | -191.18 | -189.72 |
| XBADJ | TTP43 | -182.51 | -169.74 | 0.00    | -148.64 | -137.16 | -121.51 |
| XBADJ | TTP43 | -102.17 | -79.73  | -54.86  | -28.33  | -0.93   | 18.33   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP44 | -13.08  | -43.97  | -73.52  | -100.85 | -125.10 | -145.56 |
| XBADJ | TTP44 | -161.59 | -172.71 | 0.00    | -195.62 | -205.61 | -209.36 |
| XBADJ | TTP44 | -206.74 | -197.84 | -182.93 | -162.46 | -137.81 | -119.66 |
| XBADJ | TTP44 | -141.08 | -160.28 | -175.23 | -184.86 | -188.87 | -187.14 |
| XBADJ | TTP44 | -179.72 | -166.85 | 0.00    | -145.78 | -134.45 | -119.04 |
| XBADJ | TTP44 | -100.01 | -77.94  | -53.50  | -27.44  | -0.54   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP45 | -13.61  | -45.01  | -75.05  | -102.81 | -127.44 | -148.20 |
| XBADJ | TTP45 | -164.46 | -175.72 | 0.00    | -198.63 | -208.48 | -212.00 |
| XBADJ | TTP45 | -209.07 | -199.80 | -184.45 | -163.50 | -138.34 | -119.66 |
| XBADJ | TTP45 | -140.55 | -159.24 | -173.70 | -182.90 | -186.53 | -184.49 |
| XBADJ | TTP45 | -176.86 | -163.84 | 0.00    | -142.78 | -131.59 | -116.40 |
| XBADJ | TTP45 | -97.67  | -75.98  | -51.98  | -26.40  | -0.01   | 18.21   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP46 | -14.40  | -46.33  | -76.85  | -105.03 | -130.02 | -151.06 |
| XBADJ | TTP46 | -167.51 | -178.87 | 0.00    | -201.70 | -211.36 | -214.61 |
| XBADJ | TTP46 | -211.33 | -201.64 | -185.81 | -164.34 | -138.64 | -119.41 |
| XBADJ | TTP46 | -139.75 | -157.92 | -171.91 | -180.67 | -183.95 | -181.63 |
| XBADJ | TTP46 | -173.80 | -160.69 | 0.00    | -139.71 | -128.70 | -113.79 |
| XBADJ | TTP46 | -95.41  | -74.14  | -50.61  | -25.55  | 0.29    | 17.96   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP47 | -15.05  | -47.48  | -78.48  | -107.08 | -132.43 | -153.76 |
| XBADJ | TTP47 | -170.42 | -181.90 | 0.00    | -204.68 | -214.19 | -217.19 |
| XBADJ | TTP47 | -213.59 | -203.51 | -187.23 | -165.28 | -139.05 | -119.29 |
| XBADJ | TTP47 | -139.10 | -156.76 | -170.28 | -178.62 | -181.53 | -178.93 |



|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP47 | -170.89 | -157.66 | 0.00    | -136.73 | -125.88 | -111.21 |
| XBADJ | TTP47 | -93.15  | -72.27  | -49.19  | -24.62  | 0.70    | 17.84   |
| XBADJ | TTP48 | -15.44  | -48.37  | -79.83  | -108.87 | -134.59 | -156.23 |
| XBADJ | TTP48 | -173.12 | -184.75 | 0.00    | -207.58 | -216.97 | -219.78 |
| XBADJ | TTP48 | -215.91 | -205.47 | -188.80 | -166.39 | -139.68 | -119.41 |
| XBADJ | TTP48 | -138.72 | -155.88 | -168.92 | -176.84 | -179.37 | -176.46 |
| XBADJ | TTP48 | -168.19 | -154.81 | 0.00    | -133.83 | -123.09 | -108.62 |
| XBADJ | TTP48 | -90.84  | -70.30  | -47.63  | -23.51  | 1.33    | 17.96   |
| XBADJ | TTP49 | -16.15  | -49.65  | -81.64  | -111.15 | -137.28 | -159.24 |
| XBADJ | TTP49 | -176.37 | -188.13 | 0.00    | -210.91 | -220.14 | -222.67 |
| XBADJ | TTP49 | -218.44 | -207.57 | -190.40 | -167.44 | -140.15 | -119.29 |
| XBADJ | TTP49 | -138.00 | -154.60 | -167.11 | -174.55 | -176.68 | -173.45 |
| XBADJ | TTP49 | -164.94 | -151.43 | 0.00    | -130.49 | -119.93 | -105.72 |
| XBADJ | TTP49 | -88.30  | -68.20  | -46.03  | -22.46  | 1.80    | 17.84   |
| XBADJ | TTP50 | -16.78  | -50.76  | -83.20  | -113.12 | -139.60 | -161.83 |
| XBADJ | TTP50 | -179.15 | -191.03 | 0.00    | -213.77 | -222.84 | -225.14 |
| XBADJ | TTP50 | -220.60 | -209.36 | -191.76 | -168.33 | -140.54 | -119.17 |
| XBADJ | TTP50 | -137.38 | -153.49 | -165.55 | -172.58 | -174.37 | -170.86 |
| XBADJ | TTP50 | -162.16 | -148.53 | 0.00    | -127.64 | -117.23 | -103.25 |
| XBADJ | TTP50 | -86.14  | -66.42  | -44.67  | -21.57  | 2.19    | 17.72   |
| XBADJ | TTP51 | -17.30  | -51.80  | -84.73  | -115.08 | -141.93 | -164.48 |
| XBADJ | TTP51 | -182.02 | -194.03 | 0.00    | -216.77 | -225.71 | -227.78 |
| XBADJ | TTP51 | -222.94 | -211.32 | -193.28 | -169.37 | -141.07 | -119.17 |
| XBADJ | TTP51 | -136.85 | -152.44 | -164.03 | -170.62 | -172.03 | -168.22 |
| XBADJ | TTP51 | -159.29 | -145.53 | 0.00    | -124.63 | -114.36 | -100.61 |
| XBADJ | TTP51 | -83.81  | -64.46  | -43.15  | -20.53  | 2.72    | 17.72   |
| XBADJ | TTP52 | -18.09  | -53.11  | -86.52  | -117.29 | -144.51 | -167.33 |
| XBADJ | TTP52 | -185.07 | -197.19 | 0.00    | -219.84 | -228.59 | -230.40 |
| XBADJ | TTP52 | -225.20 | -213.17 | -194.65 | -170.22 | -141.38 | -118.93 |
| XBADJ | TTP52 | -136.06 | -151.14 | -162.24 | -168.41 | -169.46 | -165.36 |
| XBADJ | TTP52 | -156.24 | -142.37 | 0.00    | -121.56 | -111.47 | -98.00  |
| XBADJ | TTP52 | -81.54  | -62.61  | -41.78  | -19.67  | 3.03    | 17.48   |
| XBADJ | TTP53 | -18.75  | -54.28  | -88.15  | -119.35 | -146.93 | -170.04 |
| XBADJ | TTP53 | -187.98 | -200.21 | 0.00    | -222.82 | -231.41 | -232.98 |
| XBADJ | TTP53 | -227.46 | -215.03 | -196.07 | -171.15 | -141.78 | -118.80 |
| XBADJ | TTP53 | -135.41 | -149.97 | -160.60 | -166.35 | -167.04 | -162.66 |
| XBADJ | TTP53 | -153.33 | -139.35 | 0.00    | -118.58 | -108.65 | -95.42  |
| XBADJ | TTP53 | -79.29  | -60.75  | -40.36  | -18.75  | 3.43    | 17.35   |
| XBADJ | TTP54 | -19.13  | -55.15  | -89.50  | -121.13 | -149.08 | -172.50 |
| XBADJ | TTP54 | -190.68 | -203.07 | 0.00    | -225.72 | -234.20 | -235.57 |
| XBADJ | TTP54 | -229.78 | -217.00 | -197.64 | -172.27 | -142.42 | -118.93 |
| XBADJ | TTP54 | -135.03 | -149.10 | -159.25 | -164.57 | -164.89 | -160.19 |
| XBADJ | TTP54 | -150.63 | -136.49 | 0.00    | -115.68 | -105.86 | -92.83  |
| XBADJ | TTP54 | -76.97  | -58.77  | -38.79  | -17.63  | 4.07    | 17.48   |
| XBADJ | TTP55 | -20.02  | -56.54  | -91.34  | -123.37 | -151.65 | -175.32 |
| XBADJ | TTP55 | -193.66 | -206.12 | 0.00    | -228.65 | -236.93 | -238.02 |
| XBADJ | TTP55 | -231.87 | -218.68 | -198.84 | -172.96 | -142.58 | -118.56 |
| XBADJ | TTP55 | -134.14 | -147.71 | -157.41 | -162.33 | -162.32 | -157.38 |
| XBADJ | TTP55 | -147.65 | -133.44 | 0.00    | -112.75 | -103.13 | -90.38  |
| XBADJ | TTP55 | -74.88  | -57.10  | -37.59  | -16.94  | 4.23    | 17.11   |
| XBADJ | TTP56 | -20.65  | -57.65  | -92.91  | -125.34 | -153.97 | -177.92 |
| XBADJ | TTP56 | -196.46 | -209.03 | 0.00    | -231.52 | -239.65 | -240.49 |
| XBADJ | TTP56 | -234.04 | -220.47 | -200.20 | -173.85 | -142.97 | -118.44 |
| XBADJ | TTP56 | -133.51 | -146.59 | -155.84 | -160.36 | -160.00 | -154.78 |
| XBADJ | TTP56 | -144.85 | -130.53 | 0.00    | -109.89 | -100.42 | -87.90  |
| XBADJ | TTP56 | -72.71  | -55.31  | -36.23  | -16.05  | 4.62    | 16.99   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP57 | -21.17  | -58.69  | -94.43  | -127.30 | -156.30 | -180.55 |
| XBADJ | TTP57 | -199.31 | -212.02 | 0.00    | -234.51 | -242.50 | -243.13 |
| XBADJ | TTP57 | -236.37 | -222.42 | -201.72 | -174.89 | -143.50 | -118.44 |
| XBADJ | TTP57 | -132.98 | -145.55 | -154.32 | -158.40 | -157.67 | -152.14 |
| XBADJ | TTP57 | -142.00 | -127.54 | 0.00    | -106.90 | -97.56  | -85.27  |
| XBADJ | TTP57 | -70.38  | -53.36  | -34.71  | -15.01  | 5.15    | 16.99   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP58 | -21.96  | -60.00  | -96.22  | -129.52 | -158.88 | -183.42 |
| XBADJ | TTP58 | -202.38 | -215.19 | 0.00    | -237.59 | -245.40 | -245.75 |
| XBADJ | TTP58 | -238.64 | -224.27 | -203.10 | -175.75 | -143.81 | -118.20 |
| XBADJ | TTP58 | -132.19 | -144.24 | -152.53 | -156.18 | -155.09 | -149.28 |
| XBADJ | TTP58 | -138.94 | -124.37 | 0.00    | -103.82 | -94.67  | -82.64  |
| XBADJ | TTP58 | -68.11  | -51.50  | -33.33  | -14.15  | 5.46    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP59 | -22.62  | -61.17  | -97.86  | -131.57 | -161.29 | -186.11 |
| XBADJ | TTP59 | -205.28 | -218.20 | 0.00    | -240.56 | -248.21 | -248.32 |
| XBADJ | TTP59 | -240.88 | -226.13 | -204.50 | -176.66 | -144.21 | -118.07 |
| XBADJ | TTP59 | -131.54 | -143.08 | -150.90 | -154.13 | -152.67 | -146.58 |
| XBADJ | TTP59 | -136.04 | -121.36 | 0.00    | -100.84 | -91.86  | -80.08  |
| XBADJ | TTP59 | -65.86  | -49.65  | -31.92  | -13.23  | 5.86    | 16.62   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP60 | -23.00  | -62.04  | -99.20  | -133.35 | -163.45 | -188.58 |
| XBADJ | TTP60 | -207.98 | -221.06 | 0.00    | -243.46 | -251.00 | -250.91 |
| XBADJ | TTP60 | -243.20 | -228.11 | -206.08 | -177.78 | -144.85 | -118.20 |
| XBADJ | TTP60 | -131.16 | -142.21 | -149.55 | -152.35 | -150.52 | -144.12 |
| XBADJ | TTP60 | -133.34 | -118.50 | 0.00    | -97.95  | -89.07  | -77.48  |
| XBADJ | TTP60 | -63.54  | -47.67  | -30.35  | -12.11  | 6.50    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP61 | -23.45  | -63.05  | -100.75 | -135.37 | -165.89 | -191.37 |
| XBADJ | TTP61 | -211.03 | 0.00    | 0.00    | -246.72 | -254.13 | -253.82 |
| XBADJ | TTP61 | -245.80 | -230.31 | -207.82 | -179.02 | -145.54 | -118.32 |
| XBADJ | TTP61 | -130.71 | -141.19 | -148.01 | -150.33 | -148.08 | -141.33 |
| XBADJ | TTP61 | -130.29 | 0.00    | 0.00    | -94.69  | -85.93  | -74.57  |
| XBADJ | TTP61 | -60.94  | -45.46  | -28.60  | -10.87  | 7.19    | 16.87   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP62 | -24.08  | -64.17  | -102.31 | -137.35 | -168.21 | -193.96 |
| XBADJ | TTP62 | -213.82 | 0.00    | 0.00    | -249.58 | -256.84 | -256.30 |
| XBADJ | TTP62 | -247.97 | -232.10 | -209.19 | -179.91 | -145.93 | -118.20 |
| XBADJ | TTP62 | -130.08 | -140.08 | -146.44 | -148.35 | -145.76 | -138.73 |
| XBADJ | TTP62 | -127.49 | 0.00    | 0.00    | -91.82  | -83.22  | -72.10  |
| XBADJ | TTP62 | -58.78  | -43.67  | -27.24  | -9.98   | 7.58    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP63 | -24.60  | -65.21  | -103.83 | -139.30 | -170.54 | -196.60 |
| XBADJ | TTP63 | -216.68 | 0.00    | 0.00    | -252.58 | -259.70 | -258.93 |
| XBADJ | TTP63 | -250.30 | -234.06 | -210.71 | -180.95 | -146.46 | -118.20 |
| XBADJ | TTP63 | -129.55 | -139.04 | -144.92 | -146.40 | -143.43 | -136.10 |
| XBADJ | TTP63 | -124.63 | 0.00    | 0.00    | -88.83  | -80.37  | -69.46  |
| XBADJ | TTP63 | -56.45  | -41.72  | -25.72  | -8.94   | 8.11    | 16.75   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP64 | -25.40  | -66.53  | -105.64 | -141.53 | -173.13 | -199.47 |
| XBADJ | TTP64 | -219.74 | 0.00    | 0.00    | -255.66 | -262.59 | -261.55 |
| XBADJ | TTP64 | -252.57 | -235.90 | -212.07 | -181.80 | -146.76 | -117.95 |
| XBADJ | TTP64 | -128.75 | -137.72 | -143.12 | -144.17 | -140.84 | -133.23 |
| XBADJ | TTP64 | -121.57 | 0.00    | 0.00    | -85.75  | -77.47  | -66.84  |
| XBADJ | TTP64 | -54.18  | -39.87  | -24.35  | -8.09   | 8.41    | 16.50   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP65 | -26.05  | -67.68  | -107.26 | -143.58 | -175.54 | -202.16 |
| XBADJ | TTP65 | -222.64 | 0.00    | 0.00    | -258.63 | -265.41 | -264.13 |
| XBADJ | TTP65 | -254.82 | -237.77 | -213.49 | -182.73 | -147.17 | -117.83 |
| XBADJ | TTP65 | -128.11 | -136.57 | -141.49 | -142.12 | -138.43 | -130.54 |
| XBADJ | TTP65 | -118.67 | 0.00    | 0.00    | -82.78  | -74.66  | -64.27  |
| XBADJ | TTP65 | -51.93  | -38.01  | -22.94  | -7.17   | 8.82    | 16.38   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP66 | -26.44  | -68.57  | -108.62 | -145.36 | -177.70 | -204.63 |
| XBADJ | TTP66 | -225.34 | 0.00    | 0.00    | -261.53 | -268.19 | -266.72 |
| XBADJ | TTP66 | -257.13 | -239.74 | -215.05 | -183.84 | -147.80 | -117.95 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP66 | -127.72 | -135.68 | -140.14 | -140.34 | -136.27 | -128.07 |
| XBADJ | TTP66 | -115.97 | 0.00    | 0.00    | -79.88  | -71.87  | -61.68  |
| XBADJ | TTP66 | -49.62  | -36.04  | -21.37  | -6.06   | 9.45    | 16.50   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP67 | -27.20  | -69.84  | -110.35 | -147.51 | -180.19 | -207.39 |
| XBADJ | TTP67 | -228.29 | 0.00    | 0.00    | -264.49 | -270.98 | -269.24 |
| XBADJ | TTP67 | -259.31 | -241.51 | -216.37 | -184.66 | -148.09 | -117.71 |
| XBADJ | TTP67 | -126.95 | -134.41 | -138.41 | -138.19 | -133.78 | -125.31 |
| XBADJ | TTP67 | -113.02 | 0.00    | 0.00    | -76.92  | -69.09  | -59.16  |
| XBADJ | TTP67 | -47.43  | -34.27  | -20.06  | -5.24   | 9.74    | 16.26   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP68 | -27.83  | -70.95  | -111.91 | -149.48 | -182.50 | -209.98 |
| XBADJ | TTP68 | -231.08 | 0.00    | 0.00    | -267.34 | -273.68 | -271.71 |
| XBADJ | TTP68 | -261.47 | -243.30 | -217.73 | -185.54 | -148.48 | -117.59 |
| XBADJ | TTP68 | -126.33 | -133.30 | -136.84 | -136.22 | -131.47 | -122.72 |
| XBADJ | TTP68 | -110.24 | 0.00    | 0.00    | -74.06  | -66.39  | -56.69  |
| XBADJ | TTP68 | -45.27  | -32.48  | -18.70  | -4.35   | 10.13   | 16.14   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP69 | -28.35  | -71.99  | -113.43 | -151.43 | -184.83 | -212.61 |
| XBADJ | TTP69 | -233.93 | 0.00    | 0.00    | -270.34 | -276.54 | -274.34 |
| XBADJ | TTP69 | -263.80 | -245.25 | -219.25 | -186.58 | -149.01 | -117.59 |
| XBADJ | TTP69 | -125.80 | -132.26 | -135.32 | -134.27 | -129.14 | -120.08 |
| XBADJ | TTP69 | -107.38 | 0.00    | 0.00    | -71.07  | -63.53  | -54.06  |
| XBADJ | TTP69 | -42.94  | -30.53  | -17.18  | -3.31   | 10.66   | 16.14   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP70 | -29.15  | -73.31  | -115.23 | -153.66 | -187.42 | -215.48 |
| XBADJ | TTP70 | -237.00 | 0.00    | 0.00    | -273.41 | -279.43 | -276.96 |
| XBADJ | TTP70 | -266.07 | -247.10 | -220.62 | -187.43 | -149.31 | -117.34 |
| XBADJ | TTP70 | -125.00 | -130.94 | -133.52 | -132.04 | -126.55 | -117.21 |
| XBADJ | TTP70 | -104.32 | 0.00    | 0.00    | -67.99  | -60.64  | -51.44  |
| XBADJ | TTP70 | -40.68  | -28.68  | -15.81  | -2.46   | 10.96   | 15.89   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP71 | -29.80  | -74.46  | -116.86 | -155.71 | -189.82 | -218.17 |
| XBADJ | TTP71 | -239.89 | 0.00    | 0.00    | -276.39 | -282.25 | -279.53 |
| XBADJ | TTP71 | -268.32 | -248.96 | -222.03 | -188.36 | -149.72 | -117.22 |
| XBADJ | TTP71 | -124.36 | -129.79 | -131.90 | -130.00 | -124.14 | -114.52 |
| XBADJ | TTP71 | -101.42 | 0.00    | 0.00    | -65.02  | -57.82  | -48.86  |
| XBADJ | TTP71 | -38.43  | -26.82  | -14.40  | -1.54   | 11.37   | 15.77   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP72 | -30.19  | -75.35  | -118.22 | -157.50 | -191.99 | -220.65 |
| XBADJ | TTP72 | -242.61 | 0.00    | 0.00    | -279.29 | -285.04 | -282.13 |
| XBADJ | TTP72 | -270.64 | -250.93 | -223.60 | -189.47 | -150.35 | -117.34 |
| XBADJ | TTP72 | -123.97 | -128.90 | -130.54 | -128.20 | -121.98 | -112.04 |
| XBADJ | TTP72 | -98.71  | 0.00    | 0.00    | -62.11  | -55.03  | -46.27  |
| XBADJ | TTP72 | -36.10  | -24.84  | -12.83  | -0.42   | 12.00   | 15.89   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP73 | -30.85  | -76.54  | -119.90 | -159.62 | -194.49 | -223.45 |
| XBADJ | TTP73 | -245.62 | 0.00    | 0.00    | -282.39 | -287.97 | -284.81 |
| XBADJ | TTP73 | -272.99 | -252.87 | -225.08 | -190.44 | -150.78 | -117.22 |
| XBADJ | TTP73 | -123.30 | -127.71 | -128.85 | -126.08 | -119.48 | -109.25 |
| XBADJ | TTP73 | -95.70  | 0.00    | 0.00    | -59.02  | -52.10  | -43.59  |
| XBADJ | TTP73 | -33.76  | -22.90  | -11.35  | 0.55    | 12.43   | 15.77   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP74 | -31.48  | -77.66  | -121.47 | -161.60 | -196.81 | -226.05 |
| XBADJ | TTP74 | -248.41 | 0.00    | 0.00    | -285.25 | -290.68 | -287.28 |
| XBADJ | TTP74 | -275.15 | -254.67 | -226.44 | -191.33 | -151.17 | -117.10 |
| XBADJ | TTP74 | -122.67 | -126.59 | -127.28 | -124.11 | -117.16 | -106.65 |
| XBADJ | TTP74 | -92.90  | 0.00    | 0.00    | -56.16  | -49.38  | -41.11  |
| XBADJ | TTP74 | -31.59  | -21.11  | -9.99   | 1.44    | 12.82   | 15.65   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP75 | -32.01  | -78.70  | -122.99 | -163.55 | -199.14 | -228.68 |
| XBADJ | TTP75 | -251.27 | 0.00    | 0.00    | -288.24 | -293.54 | -289.92 |
| XBADJ | TTP75 | -277.48 | -256.62 | -227.96 | -192.37 | -151.70 | -117.10 |
| XBADJ | TTP75 | -122.15 | -125.55 | -125.76 | -122.15 | -114.83 | -104.02 |
| XBADJ | TTP75 | -90.04  | 0.00    | 0.00    | -53.16  | -46.53  | -38.48  |
| XBADJ | TTP75 | -29.26  | -19.16  | -8.47   | 2.48    | 13.35   | 15.65   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | TTP76 | -32.80  | -80.01  | -124.78 | -165.77 | -201.72 | -231.54 |
| XBADJ | TTP76 | -254.33 | 0.00    | 0.00    | -291.32 | -296.44 | -292.54 |
| XBADJ | TTP76 | -279.76 | -258.47 | -229.34 | -193.23 | -152.01 | -116.86 |
| XBADJ | TTP76 | -121.36 | -124.24 | -123.97 | -119.93 | -112.25 | -101.15 |
| XBADJ | TTP76 | -86.98  | 0.00    | 0.00    | -50.08  | -43.63  | -35.86  |
| XBADJ | TTP76 | -26.99  | -17.30  | -7.09   | 3.33    | 13.66   | 15.41   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP77 | -33.45  | -81.17  | -126.42 | -167.83 | -204.13 | -234.24 |
| XBADJ | TTP77 | -257.23 | 0.00    | 0.00    | -294.30 | -299.25 | -295.11 |
| XBADJ | TTP77 | -282.00 | -260.33 | -230.74 | -194.15 | -152.41 | -116.73 |
| XBADJ | TTP77 | -120.70 | -123.08 | -122.34 | -117.88 | -109.83 | -98.45  |
| XBADJ | TTP77 | -84.08  | 0.00    | 0.00    | -47.11  | -40.82  | -33.29  |
| XBADJ | TTP77 | -24.74  | -15.45  | -5.69   | 4.25    | 14.06   | 15.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP78 | -33.83  | -82.04  | -127.76 | -169.60 | -206.29 | -236.70 |
| XBADJ | TTP78 | -259.93 | 0.00    | 0.00    | -297.19 | -302.04 | -297.70 |
| XBADJ | TTP78 | -284.32 | -262.30 | -232.32 | -195.27 | -153.05 | -116.86 |
| XBADJ | TTP78 | -120.32 | -122.20 | -120.99 | -116.10 | -107.68 | -95.99  |
| XBADJ | TTP78 | -81.38  | 0.00    | 0.00    | -44.21  | -38.03  | -30.69  |
| XBADJ | TTP78 | -22.42  | -13.47  | -4.11   | 5.37    | 14.69   | 15.41   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP79 | -34.45  | -83.12  | -129.28 | -171.50 | -208.52 | -239.19 |
| XBADJ | TTP79 | -262.61 | 0.00    | 0.00    | -299.93 | -304.62 | -300.06 |
| XBADJ | TTP79 | -286.38 | -264.00 | -233.60 | -196.10 | -153.40 | -116.73 |
| XBADJ | TTP79 | -119.71 | -121.12 | -119.48 | -114.20 | -105.45 | -93.50  |
| XBADJ | TTP79 | -78.71  | 0.00    | 0.00    | -41.48  | -35.44  | -28.33  |
| XBADJ | TTP79 | -20.36  | -11.77  | -2.83   | 6.21    | 15.05   | 15.28   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP80 | -35.07  | -84.24  | -130.85 | -173.48 | -210.84 | -241.79 |
| XBADJ | TTP80 | 0.00    | 0.00    | 0.00    | -302.79 | -307.34 | -302.54 |
| XBADJ | TTP80 | -288.55 | -265.80 | -234.96 | -196.99 | -153.79 | -116.61 |
| XBADJ | TTP80 | -119.08 | -120.01 | -117.91 | -112.22 | -103.13 | -90.90  |
| XBADJ | TTP80 | 0.00    | 0.00    | 0.00    | -38.61  | -32.73  | -25.86  |
| XBADJ | TTP80 | -18.20  | -9.98   | -1.46   | 7.10    | 15.44   | 15.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP81 | -35.60  | -85.28  | -132.37 | -175.43 | -213.17 | -244.42 |
| XBADJ | TTP81 | 0.00    | 0.00    | 0.00    | -305.79 | -310.19 | -305.17 |
| XBADJ | TTP81 | -290.88 | -267.75 | -236.48 | -198.03 | -154.32 | -116.61 |
| XBADJ | TTP81 | -118.55 | -118.97 | -116.39 | -110.27 | -100.80 | -88.27  |
| XBADJ | TTP81 | 0.00    | 0.00    | 0.00    | -35.62  | -29.87  | -23.22  |
| XBADJ | TTP81 | -15.87  | -8.03   | 0.06    | 8.14    | 15.97   | 15.16   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP82 | -36.39  | -86.59  | -134.16 | -177.65 | -215.75 | -247.29 |
| XBADJ | TTP82 | 0.00    | 0.00    | 0.00    | -308.87 | -313.09 | -307.80 |
| XBADJ | TTP82 | -293.15 | -269.60 | -237.86 | -198.89 | -154.64 | -116.37 |
| XBADJ | TTP82 | -117.77 | -117.66 | -114.60 | -108.05 | -98.22  | -85.40  |
| XBADJ | TTP82 | 0.00    | 0.00    | 0.00    | -32.54  | -26.98  | -20.60  |
| XBADJ | TTP82 | -13.59  | -6.17   | 1.43    | 9.00    | 16.29   | 14.92   |
|       |       |         |         |         |         |         |         |
| XBADJ | TTP83 | -37.03  | -87.74  | -135.78 | -179.70 | -218.16 | -249.98 |
| XBADJ | TTP83 | 0.00    | 0.00    | 0.00    | -311.84 | -315.90 | -310.37 |
| XBADJ | TTP83 | -295.41 | -271.47 | -239.28 | -199.82 | -155.05 | -116.25 |
| XBADJ | TTP83 | -117.12 | -116.51 | -112.97 | -106.00 | -95.81  | -82.71  |
| XBADJ | TTP83 | 0.00    | 0.00    | 0.00    | -29.57  | -24.16  | -18.03  |
| XBADJ | TTP83 | -11.34  | -4.31   | 2.85    | 9.92    | 16.70   | 14.80   |
|       |       |         |         |         |         |         |         |
| XBADJ | STCK1 | -118.50 | -171.03 | -218.36 | -259.06 | -291.89 | -315.85 |
| XBADJ | STCK1 | -330.21 | -334.54 | -331.02 | -329.46 | -319.11 | -299.07 |
| XBADJ | STCK1 | -269.93 | -232.60 | -188.20 | -138.08 | -84.52  | -39.08  |
| XBADJ | STCK1 | -35.65  | -33.22  | -30.39  | -26.64  | -22.08  | -16.85  |
| XBADJ | STCK1 | -11.10  | -5.02   | -2.57   | -11.94  | -20.96  | -29.33  |
| XBADJ | STCK1 | -36.81  | -43.18  | -48.23  | -51.82  | -53.83  | -62.37  |
|       |       |         |         |         |         |         |         |
| XBADJ | STCK2 | -108.59 | -161.64 | -209.79 | -251.56 | -285.69 | -311.13 |
| XBADJ | STCK2 | -327.13 | -333.18 | -331.43 | -331.63 | -322.96 | -304.49 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| XBADJ | STCK2 | -276.76 | -240.63 | -197.18 | -147.74 | -94.58  | -49.22  |
| XBADJ | STCK2 | -45.57  | -42.61  | -38.97  | -34.14  | -28.28  | -21.56  |
| XBADJ | STCK2 | -14.19  | -6.38   | -2.16   | -9.78   | -17.10  | -23.91  |
| XBADJ | STCK2 | -29.98  | -35.15  | -39.25  | -42.15  | -43.78  | -52.23  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE1 | -91.73  | -79.73  | -65.30  | -48.88  | -30.98  | -12.14  |
| YBADJ | IDLE1 | 7.07    | 26.44   | 46.28   | 61.56   | 76.01   | 88.46   |
| YBADJ | IDLE1 | 98.22   | 105.00  | 108.58  | 108.87  | 105.85  | 100.34  |
| YBADJ | IDLE1 | 91.73   | 79.73   | 65.30   | 48.88   | 30.98   | 12.14   |
| YBADJ | IDLE1 | -7.07   | -26.44  | -46.28  | -61.56  | -76.01  | -88.46  |
| YBADJ | IDLE1 | -98.22  | -105.00 | -108.58 | -108.87 | -105.85 | -100.34 |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE2 | -87.79  | -76.01  | -61.91  | -45.93  | -28.56  | -10.31  |
| YBADJ | IDLE2 | 8.24    | 26.93   | 46.06   | 60.64   | 74.42   | 86.25   |
| YBADJ | IDLE2 | 95.45   | 101.76  | 104.98  | 105.00  | 101.83  | 96.30   |
| YBADJ | IDLE2 | 87.79   | 76.01   | 61.91   | 45.93   | 28.56   | 10.31   |
| YBADJ | IDLE2 | -8.24   | -26.93  | -46.06  | -60.64  | -74.42  | -86.25  |
| YBADJ | IDLE2 | -95.45  | -101.76 | -104.98 | -105.00 | -101.83 | -96.30  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE3 | -84.05  | -72.44  | -58.63  | -43.04  | -26.14  | -8.45   |
| YBADJ | IDLE3 | 9.50    | 27.54   | 46.01   | 59.93   | 73.07   | 84.30   |
| YBADJ | IDLE3 | 92.97   | 98.81   | 101.65  | 101.40  | 98.07   | 92.49   |
| YBADJ | IDLE3 | 84.05   | 72.44   | 58.63   | 43.04   | 26.14   | 8.45    |
| YBADJ | IDLE3 | -9.50   | -27.54  | -46.01  | -59.93  | -73.07  | -84.30  |
| YBADJ | IDLE3 | -92.97  | -98.81  | -101.65 | -101.40 | -98.07  | -92.49  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE4 | -80.15  | -68.74  | -55.25  | -40.08  | -23.69  | -6.58   |
| YBADJ | IDLE4 | 10.73   | 28.09   | 45.87   | 59.10   | 71.57   | 82.18   |
| YBADJ | IDLE4 | 90.30   | 95.66   | 98.13   | 97.61   | 94.12   | 88.50   |
| YBADJ | IDLE4 | 80.15   | 68.74   | 55.25   | 40.08   | 23.69   | 6.58    |
| YBADJ | IDLE4 | -10.73  | -28.09  | -45.87  | -59.10  | -71.57  | -82.18  |
| YBADJ | IDLE4 | -90.30  | -95.66  | -98.13  | -97.61  | -94.12  | -88.50  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE5 | -76.12  | -64.91  | -51.73  | -36.97  | -21.09  | -4.57   |
| YBADJ | IDLE5 | 12.09   | 28.76   | 45.83   | 58.35   | 70.14   | 80.10   |
| YBADJ | IDLE5 | 87.64   | 92.50   | 94.56   | 93.75   | 90.09   | 84.41   |
| YBADJ | IDLE5 | 76.12   | 64.91   | 51.73   | 36.97   | 21.09   | 4.57    |
| YBADJ | IDLE5 | -12.09  | -28.76  | -45.83  | -58.35  | -70.14  | -80.10  |
| YBADJ | IDLE5 | -87.64  | -92.50  | -94.56  | -93.75  | -90.09  | -84.41  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE6 | -68.50  | -57.67  | -45.09  | -31.14  | -16.24  | -0.85   |
| YBADJ | IDLE6 | 14.57   | 29.92   | 45.63   | 56.80   | 67.29   | 76.04   |
| YBADJ | IDLE6 | 82.48   | 86.42   | 87.73   | 86.37   | 82.39   | 76.63   |
| YBADJ | IDLE6 | 68.50   | 57.67   | 45.09   | 31.14   | 16.24   | 0.85    |
| YBADJ | IDLE6 | -14.57  | -29.92  | -45.63  | -56.80  | -67.29  | -76.04  |
| YBADJ | IDLE6 | -82.48  | -86.42  | -87.73  | -86.37  | -82.39  | -76.63  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE7 | -64.57  | -53.95  | -41.70  | -28.19  | -13.81  | 0.98    |
| YBADJ | IDLE7 | 15.75   | 30.41   | 45.42   | 55.89   | 65.71   | 73.84   |
| YBADJ | IDLE7 | 79.73   | 83.19   | 84.13   | 82.51   | 78.38   | 72.60   |
| YBADJ | IDLE7 | 64.57   | 53.95   | 41.70   | 28.19   | 13.81   | -0.98   |
| YBADJ | IDLE7 | -15.75  | -30.41  | -45.42  | -55.89  | -65.71  | -73.84  |
| YBADJ | IDLE7 | -79.73  | -83.19  | -84.13  | -82.51  | -78.38  | -72.60  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE8 | -60.82  | -50.39  | -38.43  | -25.30  | -11.40  | 2.84    |
| YBADJ | IDLE8 | 17.00   | 31.02   | 45.37   | 55.18   | 64.36   | 71.90   |
| YBADJ | IDLE8 | 77.24   | 80.24   | 80.81   | 78.91   | 74.62   | 68.79   |
| YBADJ | IDLE8 | 60.82   | 50.39   | 38.43   | 25.30   | 11.40   | -2.84   |
| YBADJ | IDLE8 | -17.00  | -31.02  | -45.37  | -55.18  | -64.36  | -71.90  |
| YBADJ | IDLE8 | -77.24  | -80.24  | -80.81  | -78.91  | -74.62  | -68.79  |
|       |       |         |         |         |         |         |         |
| YBADJ | IDLE9 | -56.92  | -46.69  | -35.04  | -22.33  | -8.94   | 4.72    |
| YBADJ | IDLE9 | 18.24   | 31.58   | 45.23   | 54.35   | 62.87   | 69.78   |
| YBADJ | IDLE9 | 74.57   | 77.10   | 77.28   | 75.12   | 70.67   | 64.80   |
| YBADJ | IDLE9 | 56.92   | 46.69   | 35.04   | 22.33   | 8.94    | -4.72   |
| YBADJ | IDLE9 | -18.24  | -31.58  | -45.23  | -54.35  | -62.87  | -69.78  |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE9  | -74.57 | -77.10 | -77.28 | -75.12 | -70.67 | -64.80 |
| YBADJ | IDLE10 | -52.90 | -42.86 | -31.52 | -19.23 | -6.34  | 6.73   |
| YBADJ | IDLE10 | 19.60  | 32.25  | 45.19  | 53.60  | 61.43  | 67.70  |
| YBADJ | IDLE10 | 71.91  | 73.94  | 73.72  | 71.26  | 66.63  | 60.71  |
| YBADJ | IDLE10 | 52.90  | 42.86  | 31.52  | 19.23  | 6.34   | -6.73  |
| YBADJ | IDLE10 | -19.60 | -32.25 | -45.19 | -53.60 | -61.43 | -67.70 |
| YBADJ | IDLE10 | -71.91 | -73.94 | -73.72 | -71.26 | -66.63 | -60.71 |
| YBADJ | IDLE11 | -49.05 | -39.22 | -28.20 | -16.33 | -3.96  | 8.53   |
| YBADJ | IDLE11 | 20.77  | 32.75  | 45.00  | 52.73  | 59.90  | 65.56  |
| YBADJ | IDLE11 | 69.23  | 70.80  | 70.21  | 67.49  | 62.72  | 56.77  |
| YBADJ | IDLE11 | 49.05  | 39.22  | 28.20  | 16.33  | 3.96   | -8.53  |
| YBADJ | IDLE11 | -20.77 | -32.75 | -45.00 | -52.73 | -59.90 | -65.56 |
| YBADJ | IDLE11 | -69.23 | -70.80 | -70.21 | -67.49 | -62.72 | -56.77 |
| YBADJ | IDLE12 | -45.13 | -35.49 | -24.79 | -13.32 | -1.46  | 10.46  |
| YBADJ | IDLE12 | 22.05  | 33.35  | 44.91  | 51.95  | 58.45  | 63.49  |
| YBADJ | IDLE12 | 66.59  | 67.68  | 66.70  | 63.70  | 58.77  | 52.77  |
| YBADJ | IDLE12 | 45.13  | 35.49  | 24.79  | 13.32  | 1.46   | -10.46 |
| YBADJ | IDLE12 | -22.05 | -33.35 | -44.91 | -51.95 | -58.45 | -63.49 |
| YBADJ | IDLE12 | -66.59 | -67.68 | -66.70 | -63.70 | -58.77 | -52.77 |
| YBADJ | IDLE13 | -21.99 | -13.51 | -4.62  | 4.41   | 13.30  | 21.80  |
| YBADJ | IDLE13 | 29.63  | 36.93  | 44.39  | 47.34  | 49.90  | 51.25  |
| YBADJ | IDLE13 | 51.04  | 49.28  | 46.02  | 41.37  | 35.45  | 29.19  |
| YBADJ | IDLE13 | 21.99  | 13.51  | 4.62   | -4.41  | -13.30 | -21.80 |
| YBADJ | IDLE13 | -29.63 | -36.93 | -44.39 | -47.34 | -49.90 | -51.25 |
| YBADJ | IDLE13 | -51.04 | -49.28 | -46.02 | -41.37 | -35.45 | -29.19 |
| YBADJ | IDLE14 | -18.15 | -9.88  | -1.31  | 7.30   | 15.69  | 23.60  |
| YBADJ | IDLE14 | 30.79  | 37.43  | 44.19  | 46.47  | 48.37  | 49.11  |
| YBADJ | IDLE14 | 48.36  | 46.14  | 42.51  | 37.60  | 31.54  | 25.25  |
| YBADJ | IDLE14 | 18.15  | 9.88   | 1.31   | -7.30  | -15.69 | -23.60 |
| YBADJ | IDLE14 | -30.79 | -37.43 | -44.20 | -46.47 | -48.37 | -49.11 |
| YBADJ | IDLE14 | -48.36 | -46.14 | -42.51 | -37.60 | -31.54 | -25.25 |
| YBADJ | IDLE15 | -14.23 | -6.16  | 2.10   | 10.30  | 18.19  | 25.52  |
| YBADJ | IDLE15 | 32.07  | 38.04  | 44.10  | 45.69  | 46.92  | 47.04  |
| YBADJ | IDLE15 | 45.73  | 43.02  | 39.01  | 33.82  | 27.60  | 21.26  |
| YBADJ | IDLE15 | 14.23  | 6.16   | -2.10  | -10.30 | -18.19 | -25.52 |
| YBADJ | IDLE15 | -32.07 | -38.04 | -44.11 | -45.69 | -46.92 | -47.04 |
| YBADJ | IDLE15 | -45.73 | -43.02 | -39.01 | -33.82 | -27.60 | -21.26 |
| YBADJ | IDLE16 | -37.61 | -28.33 | -18.20 | -7.51  | 3.40   | 14.21  |
| YBADJ | IDLE16 | 24.59  | 34.60  | 44.83  | 50.54  | 55.76  | 59.59  |
| YBADJ | IDLE16 | 61.61  | 61.76  | 60.04  | 56.49  | 51.22  | 45.12  |
| YBADJ | IDLE16 | 37.61  | 28.33  | 18.20  | 7.51   | -3.40  | -14.21 |
| YBADJ | IDLE16 | -24.59 | -34.60 | -44.83 | -50.54 | -55.76 | -59.59 |
| YBADJ | IDLE16 | -61.61 | -61.76 | -60.04 | -56.49 | -51.22 | -45.12 |
| YBADJ | IDLE17 | -33.67 | -24.62 | -14.82 | -4.56  | 5.83   | 16.04  |
| YBADJ | IDLE17 | 25.77  | 35.09  | 44.62  | 49.64  | 54.18  | 57.40  |
| YBADJ | IDLE17 | 58.86  | 58.54  | 56.44  | 52.63  | 47.21  | 41.09  |
| YBADJ | IDLE17 | 33.67  | 24.62  | 14.82  | 4.56   | -5.83  | -16.04 |
| YBADJ | IDLE17 | -25.77 | -35.09 | -44.62 | -49.64 | -54.18 | -57.40 |
| YBADJ | IDLE17 | -58.86 | -58.54 | -56.44 | -52.63 | -47.21 | -41.09 |
| YBADJ | IDLE18 | -29.93 | -21.05 | -11.54 | -1.68  | 8.24   | 17.91  |
| YBADJ | IDLE18 | 27.03  | 35.71  | 44.57  | 48.92  | 52.83  | 55.45  |
| YBADJ | IDLE18 | 56.38  | 55.59  | 53.12  | 49.03  | 43.45  | 37.28  |
| YBADJ | IDLE18 | 29.93  | 21.05  | 11.54  | 1.68   | -8.24  | -17.91 |
| YBADJ | IDLE18 | -27.03 | -35.71 | -44.57 | -48.92 | -52.83 | -55.45 |
| YBADJ | IDLE18 | -56.38 | -55.59 | -53.12 | -49.03 | -43.45 | -37.28 |
| YBADJ | IDLE19 | -26.01 | -17.34 | -8.15  | 1.30   | 10.70  | 19.78  |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE19 | 28.26  | 36.26  | 44.43  | 48.09  | 51.33  | 53.33  |
| YBADJ | IDLE19 | 53.70  | 52.44  | 49.58  | 45.22  | 39.49  | 33.28  |
| YBADJ | IDLE19 | 26.01  | 17.34  | 8.15   | -1.30  | -10.70 | -19.78 |
| YBADJ | IDLE19 | -28.26 | -36.26 | -44.43 | -48.09 | -51.33 | -53.33 |
| YBADJ | IDLE19 | -53.70 | -52.44 | -49.58 | -45.22 | -39.49 | -33.28 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE20 | 9.14   | 16.04  | 22.45  | 28.18  | 33.05  | 36.92  |
| YBADJ | IDLE20 | 39.66  | 41.58  | 43.50  | 40.96  | 38.21  | 34.60  |
| YBADJ | IDLE20 | 29.94  | 24.38  | 18.07  | 11.21  | 4.01   | -2.58  |
| YBADJ | IDLE20 | -9.14  | -16.04 | -22.45 | -28.18 | -33.05 | -36.92 |
| YBADJ | IDLE20 | -39.66 | -41.58 | -43.50 | -40.96 | -38.21 | -34.60 |
| YBADJ | IDLE20 | -29.94 | -24.38 | -18.07 | -11.21 | -4.01  | 2.58   |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE21 | 12.99  | 19.68  | 25.77  | 31.08  | 35.44  | 38.73  |
| YBADJ | IDLE21 | 40.84  | 42.09  | 43.32  | 40.10  | 36.69  | 32.47  |
| YBADJ | IDLE21 | 27.27  | 21.24  | 14.57  | 7.45   | 0.10   | -6.52  |
| YBADJ | IDLE21 | -12.99 | -19.68 | -25.77 | -31.08 | -35.44 | -38.73 |
| YBADJ | IDLE21 | -40.84 | -42.09 | -43.32 | -40.10 | -36.69 | -32.47 |
| YBADJ | IDLE21 | -27.27 | -21.24 | -14.57 | -7.45  | -0.10  | 6.52   |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE22 | 16.91  | 23.41  | 29.19  | 34.09  | 37.95  | 40.65  |
| YBADJ | IDLE22 | 42.13  | 42.70  | 43.23  | 39.31  | 35.24  | 30.40  |
| YBADJ | IDLE22 | 24.63  | 18.12  | 11.06  | 3.66   | -3.85  | -10.52 |
| YBADJ | IDLE22 | -16.91 | -23.41 | -29.19 | -34.09 | -37.95 | -40.65 |
| YBADJ | IDLE22 | -42.13 | -42.70 | -43.23 | -39.31 | -35.24 | -30.40 |
| YBADJ | IDLE22 | -24.63 | -18.12 | -11.06 | -3.66  | 3.85   | 10.52  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE23 | -6.46  | 1.23   | 8.89   | 16.27  | 23.16  | 29.35  |
| YBADJ | IDLE23 | 34.64  | 39.26  | 43.95  | 44.17  | 44.07  | 42.95  |
| YBADJ | IDLE23 | 40.52  | 36.86  | 32.08  | 26.33  | 19.77  | 13.34  |
| YBADJ | IDLE23 | 6.46   | -1.23  | -8.89  | -16.27 | -23.16 | -29.35 |
| YBADJ | IDLE23 | -34.64 | -39.26 | -43.96 | -44.17 | -44.07 | -42.95 |
| YBADJ | IDLE23 | -40.52 | -36.86 | -32.08 | -26.33 | -19.77 | -13.34 |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE24 | -2.53  | 4.94   | 12.27  | 19.22  | 25.58  | 31.17  |
| YBADJ | IDLE24 | 35.81  | 39.75  | 43.73  | 43.25  | 42.49  | 40.74  |
| YBADJ | IDLE24 | 37.76  | 33.63  | 28.48  | 22.46  | 15.76  | 9.31   |
| YBADJ | IDLE24 | 2.53   | -4.94  | -12.27 | -19.22 | -25.58 | -31.17 |
| YBADJ | IDLE24 | -35.81 | -39.75 | -43.73 | -43.25 | -42.49 | -40.74 |
| YBADJ | IDLE24 | -37.76 | -33.63 | -28.48 | -22.46 | -15.76 | -9.31  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE25 | 1.22   | 8.51   | 15.55  | 22.11  | 28.00  | 33.04  |
| YBADJ | IDLE25 | 37.08  | 40.37  | 43.69  | 42.55  | 41.15  | 38.80  |
| YBADJ | IDLE25 | 35.28  | 30.69  | 25.16  | 18.87  | 12.00  | 5.50   |
| YBADJ | IDLE25 | -1.22  | -8.51  | -15.55 | -22.11 | -28.00 | -33.04 |
| YBADJ | IDLE25 | -37.08 | -40.37 | -43.69 | -42.55 | -41.15 | -38.80 |
| YBADJ | IDLE25 | -35.28 | -30.69 | -25.16 | -18.87 | -12.00 | -5.50  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE26 | 5.13   | 12.22  | 18.94  | 25.08  | 30.47  | 34.92  |
| YBADJ | IDLE26 | 38.32  | 40.93  | 43.55  | 41.72  | 39.65  | 36.68  |
| YBADJ | IDLE26 | 32.60  | 27.53  | 21.63  | 15.06  | 8.04   | 1.50   |
| YBADJ | IDLE26 | -5.13  | -12.22 | -18.94 | -25.08 | -30.47 | -34.92 |
| YBADJ | IDLE26 | -38.32 | -40.93 | -43.55 | -41.72 | -39.65 | -36.68 |
| YBADJ | IDLE26 | -32.60 | -27.53 | -21.63 | -15.06 | -8.04  | -1.50  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE27 | 39.99  | 45.33  | 49.30  | 51.78  | 52.67  | 51.97  |
| YBADJ | IDLE27 | 49.69  | 46.28  | 42.72  | 34.73  | 26.71  | 18.19  |
| YBADJ | IDLE27 | 9.12   | -0.23  | -9.57  | -18.62 | -27.10 | -34.04 |
| YBADJ | IDLE27 | -39.99 | -45.33 | -49.30 | -51.78 | -52.67 | -51.97 |
| YBADJ | IDLE27 | -49.69 | -46.28 | -42.72 | -34.73 | -26.71 | -18.19 |
| YBADJ | IDLE27 | -9.12  | 0.23   | 9.57   | 18.62  | 27.10  | 34.04  |
|       |        |        |        |        |        |        |        |
| YBADJ | IDLE28 | 43.84  | 48.98  | 52.63  | 54.68  | 55.07  | 53.79  |
| YBADJ | IDLE28 | 50.87  | 46.79  | 42.54  | 33.87  | 25.20  | 16.07  |
| YBADJ | IDLE28 | 6.45   | -3.36  | -13.07 | -22.38 | -31.01 | -37.98 |
| YBADJ | IDLE28 | -43.84 | -48.98 | -52.63 | -54.68 | -55.07 | -53.79 |

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| YBADJ | IDLE28 | -50.87 | -46.79 | -42.54 | -33.87 | -25.20 | -16.07 |
| YBADJ | IDLE28 | -6.45  | 3.36   | 13.07  | 22.38  | 31.01  | 37.98  |
| YBADJ | IDLE29 | 47.76  | 52.70  | 56.05  | 57.68  | 57.57  | 55.71  |
| YBADJ | IDLE29 | 52.15  | 47.39  | 42.45  | 33.08  | 23.74  | 13.99  |
| YBADJ | IDLE29 | 3.81   | -6.48  | -16.58 | -26.17 | -34.97 | -41.98 |
| YBADJ | IDLE29 | -47.76 | -52.70 | -56.05 | -57.68 | -57.57 | -55.71 |
| YBADJ | IDLE29 | -52.15 | -47.39 | -42.45 | -33.08 | -23.74 | -13.99 |
| YBADJ | IDLE29 | -3.81  | 6.48   | 16.58  | 26.17  | 34.97  | 41.98  |
| YBADJ | IDLE30 | 24.38  | 30.52  | 35.73  | 39.86  | 42.78  | 44.40  |
| YBADJ | IDLE30 | 44.67  | 43.96  | 43.17  | 37.94  | 32.58  | 26.55  |
| YBADJ | IDLE30 | 19.71  | 12.27  | 4.45   | -3.50  | -11.34 | -18.11 |
| YBADJ | IDLE30 | -24.38 | -30.52 | -35.73 | -39.86 | -42.78 | -44.40 |
| YBADJ | IDLE30 | -44.67 | -43.96 | -43.17 | -37.94 | -32.58 | -26.55 |
| YBADJ | IDLE30 | -19.71 | -12.27 | -4.45  | 3.50   | 11.34  | 18.11  |
| YBADJ | IDLE31 | 28.32  | 34.24  | 39.12  | 42.82  | 45.21  | 46.23  |
| YBADJ | IDLE31 | 45.84  | 44.44  | 42.95  | 37.02  | 30.99  | 24.34  |
| YBADJ | IDLE31 | 16.94  | 9.03   | 0.84   | -7.37  | -15.35 | -22.15 |
| YBADJ | IDLE31 | -28.32 | -34.24 | -39.12 | -42.82 | -45.21 | -46.23 |
| YBADJ | IDLE31 | -45.84 | -44.44 | -42.95 | -37.02 | -30.99 | -24.34 |
| YBADJ | IDLE31 | -16.94 | -9.03  | -0.84  | 7.37   | 15.35  | 22.15  |
| YBADJ | IDLE32 | 32.06  | 37.81  | 42.40  | 45.71  | 47.63  | 48.10  |
| YBADJ | IDLE32 | 47.11  | 45.06  | 42.91  | 36.32  | 29.65  | 22.40  |
| YBADJ | IDLE32 | 14.46  | 6.09   | -2.47  | -10.96 | -19.11 | -25.96 |
| YBADJ | IDLE32 | -32.06 | -37.81 | -42.40 | -45.71 | -47.63 | -48.10 |
| YBADJ | IDLE32 | -47.11 | -45.06 | -42.91 | -36.32 | -29.65 | -22.40 |
| YBADJ | IDLE32 | -14.46 | -6.09  | 2.47   | 10.96  | 19.11  | 25.96  |
| YBADJ | IDLE33 | 35.97  | 41.51  | 45.79  | 48.68  | 50.08  | 49.97  |
| YBADJ | IDLE33 | 48.34  | 45.62  | 42.77  | 35.49  | 28.16  | 20.28  |
| YBADJ | IDLE33 | 11.79  | 2.94   | -6.00  | -14.76 | -23.07 | -29.95 |
| YBADJ | IDLE33 | -35.97 | -41.51 | -45.79 | -48.68 | -50.08 | -49.97 |
| YBADJ | IDLE33 | -48.34 | -45.62 | -42.77 | -35.49 | -28.16 | -20.28 |
| YBADJ | IDLE33 | -11.79 | -2.94  | 6.00   | 14.76  | 23.07  | 29.95  |
| YBADJ | IDLE34 | 71.13  | 74.89  | 76.37  | 75.54  | 72.41  | 67.07  |
| YBADJ | IDLE34 | 59.71  | 50.90  | 41.81  | 28.31  | 14.99  | 1.52   |
| YBADJ | IDLE34 | -12.00 | -25.16 | -37.54 | -48.79 | -58.56 | -65.82 |
| YBADJ | IDLE34 | -71.13 | -74.89 | -76.37 | -75.54 | -72.41 | -67.07 |
| YBADJ | IDLE34 | -59.71 | -50.90 | -41.81 | -28.31 | -14.99 | -1.52  |
| YBADJ | IDLE34 | 12.00  | 25.16  | 37.54  | 48.79  | 58.56  | 65.82  |
| YBADJ | IDLE35 | 74.97  | 78.52  | 79.69  | 78.43  | 74.79  | 68.88  |
| YBADJ | IDLE35 | 60.87  | 51.40  | 41.62  | 27.44  | 13.46  | -0.62  |
| YBADJ | IDLE35 | -14.68 | -28.30 | -41.05 | -52.56 | -62.47 | -69.76 |
| YBADJ | IDLE35 | -74.97 | -78.52 | -79.69 | -78.43 | -74.79 | -68.88 |
| YBADJ | IDLE35 | -60.87 | -51.40 | -41.62 | -27.44 | -13.46 | 0.62   |
| YBADJ | IDLE35 | 14.68  | 28.30  | 41.05  | 52.56  | 62.47  | 69.76  |
| YBADJ | IDLE36 | 78.89  | 82.24  | 83.10  | 81.43  | 77.29  | 70.80  |
| YBADJ | IDLE36 | 62.15  | 52.00  | 41.53  | 26.66  | 12.01  | -2.69  |
| YBADJ | IDLE36 | -17.31 | -31.41 | -44.55 | -56.34 | -66.42 | -73.75 |
| YBADJ | IDLE36 | -78.89 | -82.24 | -83.10 | -81.43 | -77.29 | -70.80 |
| YBADJ | IDLE36 | -62.15 | -52.00 | -41.53 | -26.66 | -12.01 | 2.69   |
| YBADJ | IDLE36 | 17.31  | 31.41  | 44.55  | 56.34  | 66.42  | 73.75  |
| YBADJ | IDLE37 | 55.51  | 60.07  | 62.80  | 63.62  | 62.50  | 59.49  |
| YBADJ | IDLE37 | 54.67  | 48.57  | 42.25  | 31.51  | 20.85  | 9.86   |
| YBADJ | IDLE37 | -1.43  | -12.67 | -23.53 | -33.67 | -42.79 | -49.89 |
| YBADJ | IDLE37 | -55.51 | -60.07 | -62.80 | -63.62 | -62.50 | -59.49 |
| YBADJ | IDLE37 | -54.67 | -48.57 | -42.25 | -31.51 | -20.85 | -9.86  |
| YBADJ | IDLE37 | 1.43   | 12.67  | 23.53  | 33.67  | 42.79  | 49.89  |



|       |        |         |         |         |         |        |         |
|-------|--------|---------|---------|---------|---------|--------|---------|
| YBADJ | IDLE38 | 59.45   | 63.78   | 66.18   | 66.56   | 64.92  | 61.32   |
| YBADJ | IDLE38 | 55.84   | 49.05   | 42.03   | 30.60   | 19.26  | 7.66    |
| YBADJ | IDLE38 | -4.18   | -15.90  | -27.13  | -37.54  | -46.80 | -53.92  |
| YBADJ | IDLE38 | -59.45  | -63.78  | -66.18  | -66.56  | -64.92 | -61.32  |
| YBADJ | IDLE38 | -55.84  | -49.05  | -42.03  | -30.60  | -19.26 | -7.66   |
| YBADJ | IDLE38 | 4.18    | 15.90   | 27.13   | 37.54   | 46.80  | 53.92   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE39 | 63.19   | 67.35   | 69.46   | 69.45   | 67.34  | 63.19   |
| YBADJ | IDLE39 | 57.11   | 49.67   | 41.99   | 29.90   | 17.92  | 5.72    |
| YBADJ | IDLE39 | -6.66   | -18.84  | -30.45  | -41.13  | -50.56 | -57.73  |
| YBADJ | IDLE39 | -63.19  | -67.35  | -69.46  | -69.45  | -67.34 | -63.19  |
| YBADJ | IDLE39 | -57.11  | -49.67  | -41.99  | -29.90  | -17.92 | -5.72   |
| YBADJ | IDLE39 | 6.66    | 18.84   | 30.45   | 41.13   | 50.56  | 57.73   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE40 | 67.11   | 71.06   | 72.85   | 72.43   | 69.81  | 65.06   |
| YBADJ | IDLE40 | 58.34   | 50.23   | 41.85   | 29.06   | 16.42  | 3.60    |
| YBADJ | IDLE40 | -9.34   | -22.00  | -33.98  | -44.94  | -54.52 | -61.73  |
| YBADJ | IDLE40 | -67.11  | -71.06  | -72.85  | -72.43  | -69.81 | -65.06  |
| YBADJ | IDLE40 | -58.34  | -50.23  | -41.85  | -29.06  | -16.42 | -3.60   |
| YBADJ | IDLE40 | 9.34    | 22.00   | 33.98   | 44.94   | 54.52  | 61.73   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE41 | 102.14  | 104.34  | 103.37  | 99.26   | 92.13  | 82.21   |
| YBADJ | IDLE41 | 69.78   | 55.62   | 41.02   | 22.04   | 3.43   | -14.98  |
| YBADJ | IDLE41 | -32.94  | -49.89  | -65.33  | -78.79  | -89.85 | -97.45  |
| YBADJ | IDLE41 | -102.14 | -104.34 | -103.37 | -99.26  | -92.13 | -82.21  |
| YBADJ | IDLE41 | -69.78  | -55.62  | -41.02  | -22.04  | -3.43  | 14.98   |
| YBADJ | IDLE41 | 32.94   | 49.89   | 65.33   | 78.79   | 89.85  | 97.45   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE42 | 106.00  | 107.99  | 106.70  | 102.17  | 94.53  | 84.02   |
| YBADJ | IDLE42 | 70.96   | 56.13   | 40.84   | 21.18   | 1.91   | -17.11  |
| YBADJ | IDLE42 | -35.62  | -53.04  | -68.84  | -82.56  | -93.77 | -101.40 |
| YBADJ | IDLE42 | -106.00 | -107.99 | -106.70 | -102.17 | -94.53 | -84.02  |
| YBADJ | IDLE42 | -70.96  | -56.13  | -40.84  | -21.18  | -1.91  | 17.11   |
| YBADJ | IDLE42 | 35.62   | 53.04   | 68.84   | 82.56   | 93.77  | 101.40  |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE43 | 86.54   | 89.53   | 89.81   | 87.35   | 82.24  | 74.64   |
| YBADJ | IDLE43 | 64.76   | 53.30   | 41.47   | 25.25   | 9.30   | -6.63   |
| YBADJ | IDLE43 | -22.36  | -37.41  | -51.32  | -63.67  | -74.09 | -81.53  |
| YBADJ | IDLE43 | -86.54  | -89.53  | -89.81  | -87.35  | -82.24 | -74.64  |
| YBADJ | IDLE43 | -64.76  | -53.30  | -41.47  | -25.25  | -9.30  | 6.63    |
| YBADJ | IDLE43 | 22.36   | 37.41   | 51.32   | 63.67   | 74.09  | 81.53   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE44 | 90.47   | 93.24   | 93.19   | 90.30   | 84.67  | 76.46   |
| YBADJ | IDLE44 | 65.93   | 53.78   | 41.25   | 24.33   | 7.71   | -8.84   |
| YBADJ | IDLE44 | -25.12  | -40.64  | -54.92  | -67.53  | -78.10 | -85.56  |
| YBADJ | IDLE44 | -90.47  | -93.24  | -93.19  | -90.30  | -84.66 | -76.46  |
| YBADJ | IDLE44 | -65.93  | -53.78  | -41.25  | -24.33  | -7.71  | 8.84    |
| YBADJ | IDLE44 | 25.12   | 40.64   | 54.92   | 67.53   | 78.10  | 85.56   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE45 | 94.21   | 96.81   | 96.47   | 93.19   | 87.08  | 78.33   |
| YBADJ | IDLE45 | 67.20   | 54.40   | 41.21   | 23.63   | 6.37   | -10.78  |
| YBADJ | IDLE45 | -27.60  | -43.58  | -58.24  | -71.13  | -81.85 | -89.37  |
| YBADJ | IDLE45 | -94.21  | -96.81  | -96.47  | -93.19  | -87.08 | -78.33  |
| YBADJ | IDLE45 | -67.20  | -54.40  | -41.21  | -23.63  | -6.37  | 10.78   |
| YBADJ | IDLE45 | 27.60   | 43.58   | 58.24   | 71.13   | 81.86  | 89.37   |
|       |        |         |         |         |         |        |         |
| YBADJ | IDLE46 | 98.13   | 100.52  | 99.86   | 96.16   | 89.55  | 80.21   |
| YBADJ | IDLE46 | 68.43   | 54.96   | 41.07   | 22.80   | 4.87   | -12.90  |
| YBADJ | IDLE46 | -30.28  | -46.74  | -61.77  | -74.93  | -85.82 | -93.37  |
| YBADJ | IDLE46 | -98.13  | -100.52 | -99.86  | -96.16  | -89.55 | -80.21  |
| YBADJ | IDLE46 | -68.43  | -54.96  | -41.07  | -22.80  | -4.87  | 12.90   |
| YBADJ | IDLE46 | 30.28   | 46.74   | 61.77   | 74.93   | 85.82  | 93.37   |
|       |        |         |         |         |         |        |         |
| YBADJ | TRU1   | -92.29  | -80.75  | -66.75  | -50.72  | -33.16 | -14.58  |
| YBADJ | TRU1   | 4.44    | 23.70   | 43.51   | 58.84   | 73.43  | 86.10   |
| YBADJ | TRU1   | 96.15   | 103.28  | 107.27  | 108.00  | 105.45 | 100.42  |

|       |       |        |         |         |         |         |         |
|-------|-------|--------|---------|---------|---------|---------|---------|
| YBADJ | TRU1  | 92.29  | 80.75   | 66.75   | 50.72   | 33.16   | 14.58   |
| YBADJ | TRU1  | -4.44  | -23.70  | -43.51  | -58.84  | -73.43  | -86.10  |
| YBADJ | TRU1  | -96.15 | -103.28 | -107.27 | -108.00 | -105.45 | -100.42 |
| YBADJ | TRU2  | -88.37 | -77.00  | -63.28  | -47.65  | -30.57  | -12.56  |
| YBADJ | TRU2  | 5.84   | 24.43   | 43.55   | 58.19   | 72.11   | 84.14   |
| YBADJ | TRU2  | 93.62  | 100.25  | 103.84  | 104.27  | 101.54  | 96.44   |
| YBADJ | TRU2  | 88.37  | 77.00   | 63.28   | 47.65   | 30.57   | 12.56   |
| YBADJ | TRU2  | -5.84  | -24.43  | -43.55  | -58.19  | -72.11  | -84.14  |
| YBADJ | TRU2  | -93.62 | -100.25 | -103.84 | -104.27 | -101.54 | -96.44  |
| YBADJ | TRU3  | -84.54 | -73.36  | -59.96  | -44.73  | -28.15  | -10.71  |
| YBADJ | TRU3  | 7.06   | 24.99   | 43.43   | 57.40   | 70.66   | 82.09   |
| YBADJ | TRU3  | 91.02  | 97.18   | 100.40  | 100.56  | 97.67   | 92.53   |
| YBADJ | TRU3  | 84.54  | 73.36   | 59.96   | 44.73   | 28.15   | 10.71   |
| YBADJ | TRU3  | -7.06  | -24.99  | -43.43  | -57.40  | -70.66  | -82.09  |
| YBADJ | TRU3  | -91.02 | -97.18  | -100.40 | -100.56 | -97.67  | -92.53  |
| YBADJ | TRU4  | -80.75 | -69.76  | -56.66  | -41.83  | -25.73  | -8.85   |
| YBADJ | TRU4  | 8.30   | 25.58   | 43.35   | 56.65   | 69.26   | 80.09   |
| YBADJ | TRU4  | 88.47  | 94.17   | 97.01   | 96.90   | 93.85   | 88.67   |
| YBADJ | TRU4  | 80.75  | 69.76   | 56.66   | 41.83   | 25.73   | 8.85    |
| YBADJ | TRU4  | -8.30  | -25.58  | -43.35  | -56.65  | -69.26  | -80.09  |
| YBADJ | TRU4  | -88.47 | -94.17  | -97.01  | -96.90  | -93.85  | -88.67  |
| YBADJ | TRU5  | -76.85 | -66.06  | -53.27  | -38.85  | -23.26  | -6.96   |
| YBADJ | TRU5  | 9.55   | 26.15   | 43.23   | 55.84   | 67.79   | 77.99   |
| YBADJ | TRU5  | 85.82  | 91.05   | 93.51   | 93.12   | 89.91   | 84.69   |
| YBADJ | TRU5  | 76.85  | 66.06   | 53.27   | 38.85   | 23.26   | 6.96    |
| YBADJ | TRU5  | -9.55  | -26.15  | -43.23  | -55.84  | -67.79  | -77.99  |
| YBADJ | TRU5  | -85.82 | -91.05  | -93.51  | -93.12  | -89.91  | -84.69  |
| YBADJ | TRU6  | -69.08 | -58.70  | -46.54  | -32.96  | -18.38  | -3.24   |
| YBADJ | TRU6  | 12.00  | 27.25   | 42.94   | 54.17   | 64.80   | 73.77   |
| YBADJ | TRU6  | 80.50  | 84.78   | 86.48   | 85.56   | 82.04   | 76.75   |
| YBADJ | TRU6  | 69.08  | 58.70   | 46.54   | 32.96   | 18.38   | 3.24    |
| YBADJ | TRU6  | -12.00 | -27.25  | -42.94  | -54.17  | -64.80  | -73.77  |
| YBADJ | TRU6  | -80.50 | -84.78  | -86.48  | -85.56  | -82.04  | -76.75  |
| YBADJ | TRU7  | -65.16 | -54.95  | -43.07  | -29.88  | -15.79  | -1.22   |
| YBADJ | TRU7  | 13.40  | 27.98   | 42.98   | 53.52   | 63.48   | 71.82   |
| YBADJ | TRU7  | 77.97  | 81.76   | 83.06   | 81.84   | 78.13   | 72.77   |
| YBADJ | TRU7  | 65.16  | 54.95   | 43.07   | 29.88   | 15.79   | 1.22    |
| YBADJ | TRU7  | -13.40 | -27.98  | -42.98  | -53.52  | -63.48  | -71.82  |
| YBADJ | TRU7  | -77.97 | -81.76  | -83.06  | -81.84  | -78.13  | -72.77  |
| YBADJ | TRU8  | -61.33 | -51.32  | -39.74  | -26.97  | -13.37  | 0.64    |
| YBADJ | TRU8  | 14.62  | 28.54   | 42.86   | 52.72   | 62.03   | 69.76   |
| YBADJ | TRU8  | 75.37  | 78.68   | 79.61   | 78.12   | 74.26   | 68.86   |
| YBADJ | TRU8  | 61.33  | 51.32   | 39.74   | 26.97   | 13.37   | -0.64   |
| YBADJ | TRU8  | -14.62 | -28.54  | -42.86  | -52.72  | -62.03  | -69.76  |
| YBADJ | TRU8  | -75.37 | -78.68  | -79.61  | -78.12  | -74.26  | -68.86  |
| YBADJ | TRU9  | -57.54 | -47.72  | -36.44  | -24.06  | -10.95  | 2.50    |
| YBADJ | TRU9  | 15.86  | 29.13   | 42.78   | 51.98   | 60.63   | 67.76   |
| YBADJ | TRU9  | 72.82  | 75.68   | 76.23   | 74.47   | 70.44   | 65.00   |
| YBADJ | TRU9  | 57.54  | 47.72   | 36.44   | 24.06   | 10.95   | -2.50   |
| YBADJ | TRU9  | -15.86 | -29.13  | -42.78  | -51.98  | -60.63  | -67.76  |
| YBADJ | TRU9  | -72.82 | -75.68  | -76.23  | -74.47  | -70.44  | -65.00  |
| YBADJ | TRU10 | -53.64 | -44.02  | -33.05  | -21.09  | -8.48   | 4.38    |
| YBADJ | TRU10 | 17.11  | 29.70   | 42.66   | 51.17   | 59.16   | 65.66   |
| YBADJ | TRU10 | 70.17  | 72.55   | 72.72   | 70.68   | 66.50   | 61.02   |
| YBADJ | TRU10 | 53.64  | 44.02   | 33.05   | 21.09   | 8.48    | -4.38   |
| YBADJ | TRU10 | -17.11 | -29.70  | -42.66  | -51.17  | -59.16  | -65.66  |
| YBADJ | TRU10 | -70.17 | -72.55  | -72.72  | -70.68  | -66.50  | -61.02  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU11 | -49.69 | -40.28 | -29.65 | -18.12 | -6.04  | 6.23   |
| YBADJ | TRU11 | 18.30  | 30.20  | 42.45  | 50.26  | 57.58  | 63.46  |
| YBADJ | TRU11 | 67.41  | 69.31  | 69.11  | 66.81  | 62.48  | 56.97  |
| YBADJ | TRU11 | 49.69  | 40.28  | 29.65  | 18.12  | 6.04   | -6.23  |
| YBADJ | TRU11 | -18.30 | -30.20 | -42.45 | -50.26 | -57.58 | -63.46 |
| YBADJ | TRU11 | -67.41 | -69.31 | -69.11 | -66.81 | -62.48 | -56.97 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU12 | -45.74 | -36.52 | -26.19 | -15.07 | -3.49  | 8.20   |
| YBADJ | TRU12 | 19.64  | 30.86  | 42.41  | 49.52  | 56.16  | 61.41  |
| YBADJ | TRU12 | 64.79  | 66.21  | 65.61  | 63.02  | 58.51  | 52.95  |
| YBADJ | TRU12 | 45.74  | 36.52  | 26.19  | 15.07  | 3.49   | -8.20  |
| YBADJ | TRU12 | -19.64 | -30.86 | -42.41 | -49.52 | -56.16 | -61.41 |
| YBADJ | TRU12 | -64.79 | -66.21 | -65.61 | -63.02 | -58.51 | -52.95 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU13 | -38.19 | -29.38 | -19.69 | -9.39  | 1.19   | 11.74  |
| YBADJ | TRU13 | 21.93  | 31.83  | 42.03  | 47.80  | 53.16  | 57.22  |
| YBADJ | TRU13 | 59.53  | 60.04  | 58.72  | 55.62  | 50.83  | 45.22  |
| YBADJ | TRU13 | 38.19  | 29.38  | 19.69  | 9.39   | -1.19  | -11.74 |
| YBADJ | TRU13 | -21.93 | -31.83 | -42.03 | -47.80 | -53.16 | -57.22 |
| YBADJ | TRU13 | -59.53 | -60.04 | -58.72 | -55.62 | -50.83 | -45.22 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU14 | -34.26 | -25.63 | -16.22 | -6.32  | 3.78   | 13.76  |
| YBADJ | TRU14 | 23.32  | 32.56  | 42.07  | 47.15  | 51.84  | 55.26  |
| YBADJ | TRU14 | 57.01  | 57.02  | 55.30  | 51.90  | 46.92  | 41.24  |
| YBADJ | TRU14 | 34.26  | 25.63  | 16.22  | 6.32   | -3.78  | -13.76 |
| YBADJ | TRU14 | -23.32 | -32.56 | -42.07 | -47.15 | -51.84 | -55.26 |
| YBADJ | TRU14 | -57.01 | -57.02 | -55.30 | -51.90 | -46.92 | -41.24 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU15 | -30.44 | -22.01 | -12.90 | -3.41  | 6.19   | 15.61  |
| YBADJ | TRU15 | 24.55  | 33.12  | 41.94  | 46.35  | 50.39  | 53.21  |
| YBADJ | TRU15 | 54.41  | 53.95  | 51.86  | 48.19  | 43.06  | 37.34  |
| YBADJ | TRU15 | 30.44  | 22.01  | 12.90  | 3.41   | -6.20  | -15.61 |
| YBADJ | TRU15 | -24.55 | -33.12 | -41.95 | -46.35 | -50.39 | -53.21 |
| YBADJ | TRU15 | -54.41 | -53.95 | -51.86 | -48.19 | -43.06 | -37.34 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU16 | -26.65 | -18.40 | -9.59  | -0.49  | 8.62   | 17.48  |
| YBADJ | TRU16 | 25.80  | 33.72  | 41.88  | 45.62  | 49.01  | 51.22  |
| YBADJ | TRU16 | 51.87  | 50.95  | 48.48  | 44.54  | 39.24  | 33.48  |
| YBADJ | TRU16 | 26.65  | 18.40  | 9.59   | 0.49   | -8.62  | -17.48 |
| YBADJ | TRU16 | -25.80 | -33.72 | -41.88 | -45.62 | -49.01 | -51.22 |
| YBADJ | TRU16 | -51.87 | -50.95 | -48.48 | -44.54 | -39.24 | -33.48 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU17 | -22.75 | -14.70 | -6.20  | 2.49   | 11.10  | 19.37  |
| YBADJ | TRU17 | 27.05  | 34.29  | 41.76  | 44.80  | 47.53  | 49.12  |
| YBADJ | TRU17 | 49.22  | 47.82  | 44.97  | 40.75  | 35.29  | 29.49  |
| YBADJ | TRU17 | 22.75  | 14.70  | 6.20   | -2.49  | -11.10 | -19.37 |
| YBADJ | TRU17 | -27.05 | -34.29 | -41.76 | -44.80 | -47.53 | -49.12 |
| YBADJ | TRU17 | -49.22 | -47.82 | -44.97 | -40.75 | -35.29 | -29.49 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU18 | -18.80 | -10.97 | -2.81  | 5.45   | 13.53  | 21.21  |
| YBADJ | TRU18 | 28.24  | 34.79  | 41.54  | 43.90  | 45.95  | 46.92  |
| YBADJ | TRU18 | 46.46  | 44.59  | 41.36  | 36.88  | 31.28  | 25.45  |
| YBADJ | TRU18 | 18.80  | 10.97  | 2.81   | -5.45  | -13.53 | -21.21 |
| YBADJ | TRU18 | -28.24 | -34.79 | -41.55 | -43.90 | -45.95 | -46.92 |
| YBADJ | TRU18 | -46.46 | -44.59 | -41.36 | -36.88 | -31.28 | -25.45 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU19 | -14.85 | -7.21  | 0.66   | 8.50   | 16.08  | 23.18  |
| YBADJ | TRU19 | 29.57  | 35.45  | 41.50  | 43.16  | 44.54  | 44.87  |
| YBADJ | TRU19 | 43.84  | 41.48  | 37.86  | 33.09  | 27.31  | 21.43  |
| YBADJ | TRU19 | 14.85  | 7.21   | -0.66  | -8.50  | -16.08 | -23.18 |
| YBADJ | TRU19 | -29.57 | -35.45 | -41.51 | -43.16 | -44.54 | -44.87 |
| YBADJ | TRU19 | -43.84 | -41.48 | -37.86 | -33.09 | -27.31 | -21.43 |
|       |       |        |        |        |        |        |        |
| YBADJ | TRU20 | -7.17  | 0.07   | 7.30   | 14.32  | 20.90  | 26.85  |
| YBADJ | TRU20 | 31.98  | 36.51  | 41.20  | 41.50  | 41.57  | 40.69  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU20 | 38.57  | 35.28  | 30.91  | 25.61  | 19.53  | 13.58  |
| YBADJ | TRU20 | 7.17   | -0.07  | -7.30  | -14.32 | -20.90 | -26.85 |
| YBADJ | TRU20 | -31.98 | -36.51 | -41.21 | -41.50 | -41.57 | -40.69 |
| YBADJ | TRU20 | -38.57 | -35.28 | -30.91 | -25.61 | -19.53 | -13.58 |
| YBADJ | TRU21 | -3.25  | 3.82   | 10.77  | 17.39  | 23.49  | 28.87  |
| YBADJ | TRU21 | 33.38  | 37.24  | 41.24  | 40.85  | 40.25  | 38.73  |
| YBADJ | TRU21 | 36.04  | 32.25  | 27.49  | 21.88  | 15.62  | 9.60   |
| YBADJ | TRU21 | 3.25   | -3.82  | -10.77 | -17.39 | -23.49 | -28.87 |
| YBADJ | TRU21 | -33.38 | -37.24 | -41.24 | -40.85 | -40.25 | -38.73 |
| YBADJ | TRU21 | -36.04 | -32.25 | -27.49 | -21.88 | -15.62 | -9.60  |
| YBADJ | TRU22 | 0.57   | 7.44   | 14.09  | 20.31  | 25.90  | 30.72  |
| YBADJ | TRU22 | 34.60  | 37.80  | 41.12  | 40.05  | 38.80  | 36.68  |
| YBADJ | TRU22 | 33.44  | 29.19  | 24.05  | 18.18  | 11.76  | 5.70   |
| YBADJ | TRU22 | -0.57  | -7.44  | -14.09 | -20.31 | -25.90 | -30.72 |
| YBADJ | TRU22 | -34.60 | -37.80 | -41.12 | -40.05 | -38.80 | -36.68 |
| YBADJ | TRU22 | -33.44 | -29.19 | -24.05 | -18.18 | -11.76 | -5.70  |
| YBADJ | TRU23 | 4.37   | 11.05  | 17.40  | 23.22  | 28.33  | 32.58  |
| YBADJ | TRU23 | 35.84  | 38.40  | 41.04  | 39.30  | 37.40  | 34.67  |
| YBADJ | TRU23 | 30.89  | 26.17  | 20.66  | 14.51  | 7.93   | 1.83   |
| YBADJ | TRU23 | -4.37  | -11.05 | -17.40 | -23.22 | -28.33 | -32.58 |
| YBADJ | TRU23 | -35.84 | -38.40 | -41.04 | -39.30 | -37.40 | -34.67 |
| YBADJ | TRU23 | -30.89 | -26.17 | -20.66 | -14.51 | -7.93  | -1.83  |
| YBADJ | TRU24 | 8.27   | 14.75  | 20.79  | 26.19  | 30.80  | 34.47  |
| YBADJ | TRU24 | 37.09  | 38.97  | 40.92  | 38.49  | 35.93  | 32.58  |
| YBADJ | TRU24 | 28.24  | 23.05  | 17.15  | 10.73  | 3.99   | -2.15  |
| YBADJ | TRU24 | -8.27  | -14.75 | -20.79 | -26.19 | -30.80 | -34.47 |
| YBADJ | TRU24 | -37.09 | -38.97 | -40.92 | -38.49 | -35.93 | -32.58 |
| YBADJ | TRU24 | -28.24 | -23.05 | -17.15 | -10.73 | -3.99  | 2.15   |
| YBADJ | TRU25 | 12.21  | 18.48  | 24.18  | 29.15  | 33.23  | 36.31  |
| YBADJ | TRU25 | 38.28  | 39.46  | 40.71  | 37.58  | 34.35  | 30.38  |
| YBADJ | TRU25 | 25.48  | 19.82  | 13.55  | 6.86   | -0.03  | -6.19  |
| YBADJ | TRU25 | -12.21 | -18.48 | -24.18 | -29.15 | -33.23 | -36.31 |
| YBADJ | TRU25 | -38.28 | -39.46 | -40.71 | -37.58 | -34.35 | -30.38 |
| YBADJ | TRU25 | -25.48 | -19.82 | -13.55 | -6.86  | 0.03   | 6.19   |
| YBADJ | TRU26 | 16.16  | 22.24  | 27.64  | 32.20  | 35.79  | 38.28  |
| YBADJ | TRU26 | 39.61  | 40.12  | 40.67  | 36.85  | 32.94  | 28.33  |
| YBADJ | TRU26 | 22.87  | 16.71  | 10.05  | 3.07   | -3.99  | -10.21 |
| YBADJ | TRU26 | -16.16 | -22.24 | -27.64 | -32.20 | -35.79 | -38.28 |
| YBADJ | TRU26 | -39.61 | -40.12 | -40.67 | -36.85 | -32.94 | -28.33 |
| YBADJ | TRU26 | -22.87 | -16.71 | -10.04 | -3.07  | 3.99   | 10.21  |
| YBADJ | TRU27 | 23.89  | 29.56  | 34.33  | 38.06  | 40.63  | 41.97  |
| YBADJ | TRU27 | 42.03  | 41.20  | 40.37  | 35.18  | 29.95  | 24.12  |
| YBADJ | TRU27 | 17.56  | 10.47  | 3.05   | -4.45  | -11.82 | -18.11 |
| YBADJ | TRU27 | -23.89 | -29.56 | -34.33 | -38.06 | -40.63 | -41.97 |
| YBADJ | TRU27 | -42.03 | -41.20 | -40.37 | -35.18 | -29.95 | -24.12 |
| YBADJ | TRU27 | -17.56 | -10.47 | -3.05  | 4.45   | 11.82  | 18.11  |
| YBADJ | TRU28 | 27.82  | 33.32  | 37.80  | 41.14  | 43.22  | 44.00  |
| YBADJ | TRU28 | 43.43  | 41.93  | 40.41  | 34.53  | 28.63  | 22.17  |
| YBADJ | TRU28 | 15.03  | 7.44   | -0.37  | -8.18  | -15.74 | -22.09 |
| YBADJ | TRU28 | -27.82 | -33.32 | -37.80 | -41.14 | -43.22 | -44.00 |
| YBADJ | TRU28 | -43.43 | -41.93 | -40.41 | -34.53 | -28.63 | -22.17 |
| YBADJ | TRU28 | -15.03 | -7.44  | 0.37   | 8.18   | 15.74  | 22.09  |
| YBADJ | TRU29 | 31.64  | 36.94  | 41.12  | 44.05  | 45.64  | 45.84  |
| YBADJ | TRU29 | 44.65  | 42.49  | 40.29  | 33.73  | 27.18  | 20.11  |
| YBADJ | TRU29 | 12.44  | 4.38   | -3.81  | -11.88 | -19.60 | -25.99 |
| YBADJ | TRU29 | -31.64 | -36.94 | -41.12 | -44.05 | -45.64 | -45.84 |
| YBADJ | TRU29 | -44.65 | -42.49 | -40.29 | -33.73 | -27.18 | -20.11 |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TRU29 | -12.44 | -4.38  | 3.81   | 11.88  | 19.60  | 25.99  |
| YBADJ | TRU30 | 35.43  | 40.54  | 44.42  | 46.95  | 48.06  | 47.70  |
| YBADJ | TRU30 | 45.90  | 43.08  | 40.21  | 32.98  | 25.79  | 18.12  |
| YBADJ | TRU30 | 9.89   | 1.37   | -7.19  | -15.54 | -23.41 | -29.85 |
| YBADJ | TRU30 | -35.43 | -40.54 | -44.42 | -46.95 | -48.06 | -47.70 |
| YBADJ | TRU30 | -45.90 | -43.08 | -40.21 | -32.98 | -25.79 | -18.12 |
| YBADJ | TRU30 | -9.89  | -1.37  | 7.19   | 15.54  | 23.41  | 29.85  |
| YBADJ | TRU31 | 39.34  | 44.25  | 47.82  | 49.94  | 50.54  | 49.60  |
| YBADJ | TRU31 | 47.16  | 43.66  | 40.10  | 32.18  | 24.32  | 16.02  |
| YBADJ | TRU31 | 7.24   | -1.76  | -10.70 | -19.33 | -27.36 | -33.84 |
| YBADJ | TRU31 | -39.34 | -44.25 | -47.82 | -49.94 | -50.54 | -49.60 |
| YBADJ | TRU31 | -47.16 | -43.66 | -40.10 | -32.18 | -24.32 | -16.02 |
| YBADJ | TRU31 | -7.24  | 1.76   | 10.70  | 19.33  | 27.36  | 33.84  |
| YBADJ | TRU32 | 43.28  | 47.98  | 51.21  | 52.90  | 52.98  | 51.44  |
| YBADJ | TRU32 | 48.35  | 44.16  | 39.89  | 31.27  | 22.74  | 13.82  |
| YBADJ | TRU32 | 4.49   | -4.99  | -14.31 | -23.19 | -31.38 | -37.88 |
| YBADJ | TRU32 | -43.28 | -47.98 | -51.21 | -52.90 | -52.98 | -51.44 |
| YBADJ | TRU32 | -48.35 | -44.16 | -39.89 | -31.27 | -22.74 | -13.82 |
| YBADJ | TRU32 | -4.49  | 4.99   | 14.31  | 23.19  | 31.38  | 37.88  |
| YBADJ | TRU33 | 47.23  | 51.74  | 54.68  | 55.95  | 55.53  | 53.42  |
| YBADJ | TRU33 | 49.68  | 44.82  | 39.85  | 30.54  | 21.33  | 11.78  |
| YBADJ | TRU33 | 1.87   | -8.09  | -17.81 | -26.99 | -35.34 | -41.90 |
| YBADJ | TRU33 | -47.23 | -51.74 | -54.68 | -55.95 | -55.53 | -53.42 |
| YBADJ | TRU33 | -49.68 | -44.82 | -39.85 | -30.54 | -21.33 | -11.78 |
| YBADJ | TRU33 | -1.87  | 8.09   | 17.81  | 26.99  | 35.34  | 41.90  |
| YBADJ | TRU34 | 54.86  | 58.96  | 61.28  | 61.73  | 60.30  | 57.05  |
| YBADJ | TRU34 | 52.06  | 45.87  | 39.54  | 28.88  | 18.37  | 7.61   |
| YBADJ | TRU34 | -3.38  | -14.27 | -24.72 | -34.42 | -43.08 | -49.70 |
| YBADJ | TRU34 | -54.86 | -58.96 | -61.28 | -61.73 | -60.30 | -57.05 |
| YBADJ | TRU34 | -52.06 | -45.87 | -39.54 | -28.88 | -18.37 | -7.61  |
| YBADJ | TRU34 | 3.38   | 14.27  | 24.72  | 34.42  | 43.08  | 49.70  |
| YBADJ | TRU35 | 58.78  | 62.72  | 64.74  | 64.80  | 62.89  | 59.07  |
| YBADJ | TRU35 | 53.46  | 46.60  | 39.58  | 28.23  | 17.04  | 5.65   |
| YBADJ | TRU35 | -5.91  | -17.29 | -28.15 | -38.15 | -46.99 | -53.68 |
| YBADJ | TRU35 | -58.78 | -62.72 | -64.74 | -64.80 | -62.89 | -59.07 |
| YBADJ | TRU35 | -53.46 | -46.60 | -39.58 | -28.23 | -17.04 | -5.65  |
| YBADJ | TRU35 | 5.91   | 17.29  | 28.15  | 38.15  | 46.99  | 53.68  |
| YBADJ | TRU36 | 62.61  | 66.35  | 68.07  | 67.72  | 65.32  | 60.92  |
| YBADJ | TRU36 | 54.68  | 47.16  | 39.46  | 27.43  | 15.59  | 3.60   |
| YBADJ | TRU36 | -8.51  | -20.36 | -31.59 | -41.86 | -50.86 | -57.59 |
| YBADJ | TRU36 | -62.61 | -66.35 | -68.07 | -67.72 | -65.31 | -60.92 |
| YBADJ | TRU36 | -54.68 | -47.16 | -39.46 | -27.43 | -15.59 | -3.60  |
| YBADJ | TRU36 | 8.51   | 20.36  | 31.59  | 41.86  | 50.86  | 57.59  |
| YBADJ | TRU37 | 66.40  | 69.95  | 71.38  | 70.63  | 67.74  | 62.79  |
| YBADJ | TRU37 | 55.94  | 47.76  | 39.39  | 26.69  | 14.21  | 1.60   |
| YBADJ | TRU37 | -11.05 | -23.36 | -34.97 | -45.51 | -54.68 | -61.45 |
| YBADJ | TRU37 | -66.40 | -69.95 | -71.38 | -70.63 | -67.74 | -62.79 |
| YBADJ | TRU37 | -55.94 | -47.76 | -39.39 | -26.69 | -14.21 | -1.60  |
| YBADJ | TRU37 | 11.05  | 23.36  | 34.97  | 45.51  | 54.68  | 61.45  |
| YBADJ | TRU38 | 70.30  | 73.65  | 74.76  | 73.60  | 70.21  | 64.68  |
| YBADJ | TRU38 | 57.19  | 48.33  | 39.27  | 25.88  | 12.73  | -0.49  |
| YBADJ | TRU38 | -13.70 | -26.49 | -38.48 | -49.30 | -58.62 | -65.43 |
| YBADJ | TRU38 | -70.30 | -73.65 | -74.76 | -73.60 | -70.21 | -64.68 |
| YBADJ | TRU38 | -57.19 | -48.33 | -39.27 | -25.88 | -12.73 | 0.49   |
| YBADJ | TRU38 | 13.70  | 26.49  | 38.48  | 49.30  | 58.62  | 65.43  |
| YBADJ | TRU39 | 74.25  | 77.39  | 78.17  | 76.57  | 72.65  | 66.52  |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TRU39 | 58.37   | 48.83   | 39.06   | 24.97   | 11.15   | -2.70   |
| YBADJ | TRU39 | -16.46  | -29.73  | -42.09  | -53.17  | -62.64  | -69.48  |
| YBADJ | TRU39 | -74.25  | -77.39  | -78.17  | -76.57  | -72.65  | -66.52  |
| YBADJ | TRU39 | -58.37  | -48.83  | -39.06  | -24.97  | -11.15  | 2.70    |
| YBADJ | TRU39 | 16.46   | 29.73   | 42.09   | 53.17   | 62.64   | 69.48   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU40 | 78.21   | 81.15   | 81.63   | 79.63   | 75.20   | 68.50   |
| YBADJ | TRU40 | 59.71   | 49.49   | 39.02   | 24.23   | 9.74    | -4.74   |
| YBADJ | TRU40 | -19.08  | -32.83  | -45.59  | -56.96  | -66.61  | -73.50  |
| YBADJ | TRU40 | -78.21  | -81.15  | -81.63  | -79.63  | -75.20  | -68.50  |
| YBADJ | TRU40 | -59.71  | -49.49  | -39.02  | -24.23  | -9.74   | 4.74    |
| YBADJ | TRU40 | 19.08   | 32.83   | 45.59   | 56.96   | 66.61   | 73.50   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU41 | 85.77   | 88.30   | 88.14   | 85.31   | 79.89   | 72.04   |
| YBADJ | TRU41 | 62.00   | 50.45   | 38.63   | 22.50   | 6.72    | -8.95   |
| YBADJ | TRU41 | -24.36  | -39.02  | -52.50  | -64.38  | -74.31  | -81.25  |
| YBADJ | TRU41 | -85.77  | -88.30  | -88.14  | -85.31  | -79.89  | -72.04  |
| YBADJ | TRU41 | -61.99  | -50.45  | -38.63  | -22.50  | -6.72   | 8.95    |
| YBADJ | TRU41 | 24.36   | 39.02   | 52.50   | 64.38   | 74.31   | 81.25   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU42 | 89.69   | 92.05   | 91.61   | 88.38   | 82.47   | 74.05   |
| YBADJ | TRU42 | 63.38   | 51.17   | 38.66   | 21.84   | 5.39    | -10.92  |
| YBADJ | TRU42 | -26.89  | -42.05  | -55.93  | -68.11  | -78.22  | -85.23  |
| YBADJ | TRU42 | -89.69  | -92.05  | -91.61  | -88.38  | -82.47  | -74.05  |
| YBADJ | TRU42 | -63.38  | -51.17  | -38.66  | -21.84  | -5.39   | 10.92   |
| YBADJ | TRU42 | 26.89   | 42.05   | 55.93   | 68.11   | 78.22   | 85.23   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU43 | 93.53   | 95.69   | 94.94   | 91.30   | 84.90   | 75.91   |
| YBADJ | TRU43 | 64.62   | 51.74   | 38.55   | 21.05   | 3.95    | -12.97  |
| YBADJ | TRU43 | -29.49  | -45.12  | -59.37  | -71.82  | -82.09  | -89.14  |
| YBADJ | TRU43 | -93.53  | -95.69  | -94.94  | -91.30  | -84.90  | -75.91  |
| YBADJ | TRU43 | -64.62  | -51.74  | -38.55  | -21.05  | -3.95   | 12.97   |
| YBADJ | TRU43 | 29.49   | 45.12   | 59.37   | 71.82   | 82.09   | 89.14   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU44 | 97.31   | 99.29   | 98.24   | 94.21   | 87.32   | 77.77   |
| YBADJ | TRU44 | 65.86   | 52.33   | 38.47   | 20.30   | 2.55    | -14.97  |
| YBADJ | TRU44 | -32.03  | -48.12  | -62.75  | -75.48  | -85.91  | -93.00  |
| YBADJ | TRU44 | -97.31  | -99.29  | -98.24  | -94.21  | -87.32  | -77.77  |
| YBADJ | TRU44 | -65.86  | -52.33  | -38.47  | -20.30  | -2.55   | 14.97   |
| YBADJ | TRU44 | 32.03   | 48.12   | 62.75   | 75.48   | 85.91   | 93.00   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU45 | 101.21  | 102.98  | 101.63  | 97.18   | 89.78   | 79.66   |
| YBADJ | TRU45 | 67.11   | 52.91   | 38.35   | 19.49   | 1.08    | -17.06  |
| YBADJ | TRU45 | -34.68  | -51.25  | -66.26  | -79.26  | -89.85  | -96.98  |
| YBADJ | TRU45 | -101.21 | -102.98 | -101.63 | -97.18  | -89.78  | -79.66  |
| YBADJ | TRU45 | -67.11  | -52.91  | -38.35  | -19.49  | -1.08   | 17.06   |
| YBADJ | TRU45 | 34.68   | 51.25   | 66.26   | 79.26   | 89.85   | 96.98   |
|       |       |         |         |         |         |         |         |
| YBADJ | TRU46 | 105.16  | 106.72  | 105.03  | 100.15  | 92.23   | 81.50   |
| YBADJ | TRU46 | 68.30   | 53.40   | 38.14   | 18.58   | -0.50   | -19.27  |
| YBADJ | TRU46 | -37.45  | -54.49  | -69.87  | -83.13  | -93.87  | -101.03 |
| YBADJ | TRU46 | -105.16 | -106.72 | -105.03 | -100.15 | -92.23  | -81.50  |
| YBADJ | TRU46 | -68.30  | -53.40  | -38.14  | -18.58  | 0.50    | 19.27   |
| YBADJ | TRU46 | 37.45   | 54.49   | 69.87   | 83.13   | 93.87   | 101.03  |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP1  | -102.90 | -85.77  | -66.02  | -44.27  | -21.18  | 2.56    |
| YBADJ | TTP1  | 26.22   | 49.46   | 0.00    | 0.00    | 106.08  | 119.12  |
| YBADJ | TTP1  | 128.54  | 134.06  | 135.50  | 132.83  | 126.12  | 116.30  |
| YBADJ | TTP1  | 102.90  | 85.77   | 66.02   | 44.27   | 21.18   | -2.56   |
| YBADJ | TTP1  | -26.22  | -49.46  | 0.00    | 0.00    | -106.08 | -119.12 |
| YBADJ | TTP1  | -128.54 | -134.06 | -135.50 | -132.83 | -126.12 | -116.30 |
|       |       |         |         |         |         |         |         |
| YBADJ | TTP2  | -100.05 | -83.06  | -63.56  | -42.11  | -19.39  | 3.91    |
| YBADJ | TTP2  | 27.10   | 49.85   | 0.00    | 0.00    | 104.97  | 117.56  |
| YBADJ | TTP2  | 126.57  | 131.74  | 132.91  | 130.04  | 123.22  | 113.38  |
| YBADJ | TTP2  | 100.05  | 83.06   | 63.56   | 42.11   | 19.39   | -3.91   |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TTP2  | -27.10  | -49.85  | 0.00    | 0.00    | -104.97 | -117.56 |
| YBADJ | TTP2  | -126.57 | -131.74 | -132.91 | -130.04 | -123.22 | -113.38 |
| YBADJ | TTP3  | -97.05  | -80.20  | -60.91  | -39.78  | -17.43  | 5.44    |
| YBADJ | TTP3  | 28.15   | 50.38   | 0.00    | 0.00    | 103.92  | 116.03  |
| YBADJ | TTP3  | 124.61  | 129.41  | 130.27  | 127.18  | 120.22  | 110.33  |
| YBADJ | TTP3  | 97.05   | 80.20   | 60.91   | 39.78   | 17.43   | -5.44   |
| YBADJ | TTP3  | -28.15  | -50.38  | 0.00    | 0.00    | -103.92 | -116.03 |
| YBADJ | TTP3  | -124.61 | -129.41 | -130.27 | -127.18 | -120.22 | -110.33 |
| YBADJ | TTP4  | -93.98  | -77.31  | -58.30  | -37.52  | -15.59  | 6.80    |
| YBADJ | TTP4  | 28.99   | 50.68   | 0.00    | 0.00    | 102.61  | 114.23  |
| YBADJ | TTP4  | 122.39  | 126.83  | 127.41  | 124.12  | 117.06  | 107.17  |
| YBADJ | TTP4  | 93.98   | 77.31   | 58.30   | 37.52   | 15.59   | -6.80   |
| YBADJ | TTP4  | -28.99  | -50.68  | 0.00    | 0.00    | -102.61 | -114.23 |
| YBADJ | TTP4  | -122.39 | -126.83 | -127.41 | -124.12 | -117.06 | -107.17 |
| YBADJ | TTP5  | -90.99  | -74.49  | -55.72  | -35.26  | -13.73  | 8.22    |
| YBADJ | TTP5  | 29.92   | 51.09   | 0.00    | 0.00    | 101.45  | 112.61  |
| YBADJ | TTP5  | 120.34  | 124.41  | 124.71  | 121.21  | 114.04  | 104.12  |
| YBADJ | TTP5  | 90.99   | 74.49   | 55.72   | 35.26   | 13.73   | -8.22   |
| YBADJ | TTP5  | -29.92  | -51.09  | 0.00    | 0.00    | -101.45 | -112.61 |
| YBADJ | TTP5  | -120.34 | -124.41 | -124.71 | -121.21 | -114.04 | -104.12 |
| YBADJ | TTP6  | -88.10  | -71.70  | -53.13  | -32.95  | -11.76  | 9.79    |
| YBADJ | TTP6  | 31.04   | 51.72   | 0.00    | 0.00    | 100.57  | 111.25  |
| YBADJ | TTP6  | 118.55  | 122.25  | 122.24  | 118.51  | 111.18  | 101.20  |
| YBADJ | TTP6  | 88.10   | 71.70   | 53.13   | 32.94   | 11.76   | -9.79   |
| YBADJ | TTP6  | -31.04  | -51.72  | 0.00    | 0.00    | -100.57 | -111.25 |
| YBADJ | TTP6  | -118.55 | -122.25 | -122.24 | -118.51 | -111.18 | -101.20 |
| YBADJ | TTP7  | -85.26  | -69.04  | -50.72  | -30.86  | -10.06  | 11.04   |
| YBADJ | TTP7  | 31.81   | 51.99   | 0.00    | 0.00    | 99.34   | 109.58  |
| YBADJ | TTP7  | 116.49  | 119.86  | 119.59  | 115.68  | 108.26  | 98.28   |
| YBADJ | TTP7  | 85.26   | 69.04   | 50.72   | 30.86   | 10.06   | -11.04  |
| YBADJ | TTP7  | -31.81  | -51.99  | 0.00    | 0.00    | -99.34  | -109.58 |
| YBADJ | TTP7  | -116.49 | -119.86 | -119.59 | -115.68 | -108.26 | -98.28  |
| YBADJ | TTP8  | -82.40  | -66.33  | -48.25  | -28.70  | -8.27   | 12.40   |
| YBADJ | TTP8  | 32.70   | 52.38   | 0.00    | 0.00    | 98.23   | 108.01  |
| YBADJ | TTP8  | 114.52  | 117.54  | 116.99  | 112.89  | 105.36  | 95.35   |
| YBADJ | TTP8  | 82.40   | 66.33   | 48.25   | 28.70   | 8.27    | -12.40  |
| YBADJ | TTP8  | -32.70  | -52.38  | 0.00    | 0.00    | -98.23  | -108.01 |
| YBADJ | TTP8  | -114.52 | -117.54 | -116.99 | -112.89 | -105.36 | -95.35  |
| YBADJ | TTP9  | -79.41  | -63.47  | -45.61  | -26.37  | -6.32   | 13.92   |
| YBADJ | TTP9  | 33.74   | 52.91   | 0.00    | 0.00    | 97.19   | 106.49  |
| YBADJ | TTP9  | 112.56  | 115.21  | 114.36  | 110.03  | 102.36  | 92.31   |
| YBADJ | TTP9  | 79.41   | 63.47   | 45.61   | 26.37   | 6.32    | -13.92  |
| YBADJ | TTP9  | -33.74  | -52.91  | 0.00    | 0.00    | -97.19  | -106.49 |
| YBADJ | TTP9  | -112.56 | -115.21 | -114.36 | -110.03 | -102.36 | -92.31  |
| YBADJ | TTP10 | -76.33  | -60.58  | -42.99  | -24.10  | -4.47   | 15.29   |
| YBADJ | TTP10 | 34.59   | 53.21   | 0.00    | 0.00    | 95.87   | 104.69  |
| YBADJ | TTP10 | 110.33  | 112.62  | 111.49  | 106.97  | 99.20   | 89.14   |
| YBADJ | TTP10 | 76.33   | 60.58   | 42.99   | 24.10   | 4.47    | -15.29  |
| YBADJ | TTP10 | -34.59  | -53.21  | 0.00    | 0.00    | -95.87  | -104.69 |
| YBADJ | TTP10 | -110.33 | -112.62 | -111.49 | -106.97 | -99.20  | -89.14  |
| YBADJ | TTP11 | -73.35  | -57.76  | -40.42  | -21.85  | -2.61   | 16.71   |
| YBADJ | TTP11 | 35.51   | 53.62   | 0.00    | 83.79   | 94.72   | 103.07  |
| YBADJ | TTP11 | 108.29  | 110.22  | 108.80  | 104.07  | 96.18   | 86.10   |
| YBADJ | TTP11 | 73.35   | 57.76   | 40.42   | 21.85   | 2.61    | -16.71  |
| YBADJ | TTP11 | -35.51  | -53.62  | 0.00    | -83.80  | -94.72  | -103.07 |
| YBADJ | TTP11 | -108.29 | -110.22 | -108.80 | -104.07 | -96.18  | -86.10  |

|       |       |         |         |         |         |        |         |
|-------|-------|---------|---------|---------|---------|--------|---------|
| YBADJ | TTP12 | -70.46  | -54.98  | -37.83  | -19.53  | -0.64  | 18.27   |
| YBADJ | TTP12 | 36.63   | 54.25   | 0.00    | 83.41   | 93.83  | 101.71  |
| YBADJ | TTP12 | 106.50  | 108.06  | 106.33  | 101.37  | 93.33  | 83.18   |
| YBADJ | TTP12 | 70.46   | 54.98   | 37.83   | 19.53   | 0.64   | -18.27  |
| YBADJ | TTP12 | -36.63  | -54.25  | 0.00    | -83.41  | -93.83 | -101.71 |
| YBADJ | TTP12 | -106.50 | -108.06 | -106.33 | -101.37 | -93.33 | -83.18  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP13 | -67.24  | -51.93  | -35.04  | -17.09  | 1.38   | 19.81   |
| YBADJ | TTP13 | 37.64   | 54.70   | 0.00    | 82.72   | 92.59  | 99.96   |
| YBADJ | TTP13 | 104.29  | 105.46  | 103.42  | 98.24   | 90.07  | 79.89   |
| YBADJ | TTP13 | 67.24   | 51.93   | 35.04   | 17.09   | -1.38  | -19.81  |
| YBADJ | TTP13 | -37.64  | -54.70  | 0.00    | -82.72  | -92.59 | -99.96  |
| YBADJ | TTP13 | -104.29 | -105.46 | -103.42 | -98.24  | -90.07 | -79.89  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP14 | -64.38  | -49.23  | -32.57  | -14.93  | 3.17   | 21.17   |
| YBADJ | TTP14 | 38.52   | 55.09   | 0.00    | 82.09   | 91.48  | 98.40   |
| YBADJ | TTP14 | 102.33  | 103.15  | 100.83  | 95.45   | 87.17  | 76.97   |
| YBADJ | TTP14 | 64.38   | 49.23   | 32.57   | 14.93   | -3.17  | -21.17  |
| YBADJ | TTP14 | -38.52  | -55.09  | 0.00    | -82.09  | -91.48 | -98.40  |
| YBADJ | TTP14 | -102.33 | -103.15 | -100.83 | -95.45  | -87.17 | -76.97  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP15 | -61.38  | -46.36  | -29.93  | -12.59  | 5.13   | 22.69   |
| YBADJ | TTP15 | 39.57   | 55.62   | 0.00    | 81.56   | 90.44  | 96.87   |
| YBADJ | TTP15 | 100.37  | 100.81  | 98.19   | 92.59   | 84.17  | 73.92   |
| YBADJ | TTP15 | 61.38   | 46.36   | 29.93   | 12.59   | -5.13  | -22.69  |
| YBADJ | TTP15 | -39.57  | -55.62  | 0.00    | -81.56  | -90.44 | -96.87  |
| YBADJ | TTP15 | -100.37 | -100.81 | -98.19  | -92.59  | -84.17 | -73.92  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP16 | -58.31  | -43.47  | -27.32  | -10.33  | 6.97   | 24.06   |
| YBADJ | TTP16 | 40.42   | 55.93   | 0.00    | 80.78   | 89.13  | 95.09   |
| YBADJ | TTP16 | 98.15   | 98.23   | 95.33   | 89.53   | 81.02  | 70.76   |
| YBADJ | TTP16 | 58.31   | 43.47   | 27.32   | 10.33   | -6.97  | -24.06  |
| YBADJ | TTP16 | -40.42  | -55.93  | 0.00    | -80.78  | -89.13 | -95.09  |
| YBADJ | TTP16 | -98.15  | -98.23  | -95.33  | -89.53  | -81.02 | -70.76  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP17 | -55.33  | -40.65  | -24.73  | -8.07   | 8.84   | 25.49   |
| YBADJ | TTP17 | 41.35   | 56.34   | 0.00    | 80.13   | 87.97  | 93.46   |
| YBADJ | TTP17 | 96.10   | 95.82   | 92.63   | 86.63   | 77.99  | 67.71   |
| YBADJ | TTP17 | 55.33   | 40.65   | 24.73   | 8.07    | -8.84  | -25.49  |
| YBADJ | TTP17 | -41.35  | -56.34  | 0.00    | -80.13  | -87.97 | -93.46  |
| YBADJ | TTP17 | -96.10  | -95.82  | -92.63  | -86.63  | -77.99 | -67.71  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP18 | -52.43  | -37.86  | -22.14  | -5.75   | 10.81  | 27.05   |
| YBADJ | TTP18 | 42.46   | 56.97   | 0.00    | 79.74   | 87.09  | 92.10   |
| YBADJ | TTP18 | 94.31   | 93.66   | 90.16   | 83.92   | 75.14  | 64.79   |
| YBADJ | TTP18 | 52.43   | 37.86   | 22.14   | 5.75    | -10.81 | -27.05  |
| YBADJ | TTP18 | -42.46  | -56.97  | 0.00    | -79.74  | -87.09 | -92.10  |
| YBADJ | TTP18 | -94.31  | -93.66  | -90.16  | -83.92  | -75.14 | -64.79  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP19 | -49.23  | -34.86  | -19.42  | -3.39   | 12.73  | 28.48   |
| YBADJ | TTP19 | 43.35   | 57.29   | 0.00    | 78.92   | 85.73  | 90.24   |
| YBADJ | TTP19 | 92.01   | 90.98   | 87.19   | 80.75   | 71.85  | 61.50   |
| YBADJ | TTP19 | 49.23   | 34.86   | 19.42   | 3.39    | -12.74 | -28.48  |
| YBADJ | TTP19 | -43.35  | -57.29  | 0.00    | -78.92  | -85.73 | -90.24  |
| YBADJ | TTP19 | -92.01  | -90.98  | -87.19  | -80.75  | -71.85 | -61.50  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP20 | -46.38  | -32.15  | -16.95  | -1.23   | 14.52  | 29.83   |
| YBADJ | TTP20 | 44.24   | 57.68   | 0.00    | 78.30   | 84.62  | 88.67   |
| YBADJ | TTP20 | 90.04   | 88.67   | 84.60   | 77.96   | 68.96  | 58.58   |
| YBADJ | TTP20 | 46.38   | 32.15   | 16.95   | 1.23    | -14.52 | -29.83  |
| YBADJ | TTP20 | -44.24  | -57.68  | 0.00    | -78.30  | -84.62 | -88.67  |
| YBADJ | TTP20 | -90.04  | -88.67  | -84.60  | -77.96  | -68.96 | -58.58  |
|       |       |         |         |         |         |        |         |
| YBADJ | TTP21 | -43.38  | -29.29  | -14.31  | 1.10    | 16.48  | 31.36   |
| YBADJ | TTP21 | 45.28   | 58.21   | 0.00    | 77.77   | 83.57  | 87.15   |
| YBADJ | TTP21 | 88.08   | 86.33   | 81.96   | 75.10   | 65.95  | 55.53   |



|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP21 | 43.38  | 29.29  | 14.31  | -1.10  | -16.48 | -31.36 |
| YBADJ | TTP21 | -45.28 | -58.21 | 0.00   | -77.77 | -83.57 | -87.15 |
| YBADJ | TTP21 | -88.08 | -86.33 | -81.96 | -75.10 | -65.95 | -55.53 |
| YBADJ | TTP22 | -40.31 | -26.40 | -11.69 | 3.37   | 18.33  | 32.73  |
| YBADJ | TTP22 | 46.14  | 58.52  | 0.00   | 76.98  | 82.27  | 85.36  |
| YBADJ | TTP22 | 85.86  | 83.75  | 79.10  | 72.04  | 62.80  | 52.37  |
| YBADJ | TTP22 | 40.31  | 26.40  | 11.69  | -3.37  | -18.33 | -32.73 |
| YBADJ | TTP22 | -46.14 | -58.52 | 0.00   | -76.98 | -82.27 | -85.36 |
| YBADJ | TTP22 | -85.86 | -83.75 | -79.10 | -72.04 | -62.80 | -52.37 |
| YBADJ | TTP23 | -37.32 | -23.58 | -9.11  | 5.63   | 20.20  | 34.15  |
| YBADJ | TTP23 | 47.07  | 58.94  | 0.00   | 76.33  | 81.11  | 83.73  |
| YBADJ | TTP23 | 83.81  | 81.34  | 76.40  | 69.14  | 59.77  | 49.32  |
| YBADJ | TTP23 | 37.32  | 23.58  | 9.11   | -5.63  | -20.20 | -34.15 |
| YBADJ | TTP23 | -47.07 | -58.94 | 0.00   | -76.33 | -81.11 | -83.73 |
| YBADJ | TTP23 | -83.81 | -81.34 | -76.40 | -69.14 | -59.77 | -49.32 |
| YBADJ | TTP24 | -34.43 | -20.79 | -6.52  | 7.94   | 22.17  | 35.72  |
| YBADJ | TTP24 | 48.18  | 59.56  | 0.00   | 75.95  | 80.23  | 82.38  |
| YBADJ | TTP24 | 82.02  | 79.18  | 73.93  | 66.43  | 56.92  | 46.40  |
| YBADJ | TTP24 | 34.43  | 20.79  | 6.52   | -7.94  | -22.17 | -35.72 |
| YBADJ | TTP24 | -48.18 | -59.56 | 0.00   | -75.95 | -80.23 | -82.38 |
| YBADJ | TTP24 | -82.02 | -79.18 | -73.93 | -66.43 | -56.92 | -46.40 |
| YBADJ | TTP25 | -31.69 | -18.20 | -4.16  | 10.01  | 23.87  | 37.01  |
| YBADJ | TTP25 | 49.03  | 59.93  | 0.00   | 75.34  | 79.16  | 80.87  |
| YBADJ | TTP25 | 80.13  | 76.96  | 71.45  | 63.76  | 54.14  | 43.60  |
| YBADJ | TTP25 | 31.69  | 18.20  | 4.16   | -10.01 | -23.87 | -37.01 |
| YBADJ | TTP25 | -49.03 | -59.93 | 0.00   | -75.34 | -79.16 | -80.87 |
| YBADJ | TTP25 | -80.13 | -76.96 | -71.45 | -63.76 | -54.14 | -43.60 |
| YBADJ | TTP26 | -28.83 | -15.50 | -1.69  | 12.17  | 25.66  | 38.37  |
| YBADJ | TTP26 | 49.91  | 60.32  | 0.00   | 74.72  | 78.04  | 79.31  |
| YBADJ | TTP26 | 78.16  | 74.64  | 68.86  | 60.98  | 51.24  | 40.68  |
| YBADJ | TTP26 | 28.83  | 15.50  | 1.69   | -12.17 | -25.66 | -38.37 |
| YBADJ | TTP26 | -49.91 | -60.32 | 0.00   | -74.72 | -78.04 | -79.31 |
| YBADJ | TTP26 | -78.16 | -74.64 | -68.86 | -60.98 | -51.24 | -40.68 |
| YBADJ | TTP27 | -25.83 | -12.63 | 0.95   | 14.51  | 27.62  | 39.89  |
| YBADJ | TTP27 | 50.95  | 60.85  | 0.00   | 74.19  | 77.00  | 77.78  |
| YBADJ | TTP27 | 76.20  | 72.31  | 66.22  | 58.11  | 48.24  | 37.63  |
| YBADJ | TTP27 | 25.83  | 12.63  | -0.95  | -14.51 | -27.62 | -39.89 |
| YBADJ | TTP27 | -50.95 | -60.85 | 0.00   | -74.19 | -77.00 | -77.78 |
| YBADJ | TTP27 | -76.20 | -72.31 | -66.22 | -58.11 | -48.24 | -37.63 |
| YBADJ | TTP28 | -22.76 | -9.75  | 3.56   | 16.77  | 29.46  | 41.26  |
| YBADJ | TTP28 | 51.80  | 61.15  | 0.00   | 73.39  | 75.68  | 75.99  |
| YBADJ | TTP28 | 73.98  | 69.73  | 63.35  | 55.06  | 45.09  | 34.47  |
| YBADJ | TTP28 | 22.76  | 9.75   | -3.56  | -16.77 | -29.46 | -41.26 |
| YBADJ | TTP28 | -51.80 | -61.15 | 0.00   | -73.39 | -75.68 | -75.99 |
| YBADJ | TTP28 | -73.98 | -69.73 | -63.35 | -55.06 | -45.09 | -34.47 |
| YBADJ | TTP29 | -19.78 | -6.92  | 6.14   | 19.02  | 31.33  | 42.68  |
| YBADJ | TTP29 | 52.73  | 61.56  | 0.00   | 72.74  | 74.53  | 74.36  |
| YBADJ | TTP29 | 71.93  | 67.31  | 60.65  | 52.15  | 42.06  | 31.42  |
| YBADJ | TTP29 | 19.78  | 6.92   | -6.14  | -19.02 | -31.33 | -42.68 |
| YBADJ | TTP29 | -52.73 | -61.56 | 0.00   | -72.74 | -74.53 | -74.36 |
| YBADJ | TTP29 | -71.93 | -67.31 | -60.65 | -52.15 | -42.06 | -31.42 |
| YBADJ | TTP30 | -16.88 | -4.14  | 8.73   | 21.34  | 33.30  | 44.24  |
| YBADJ | TTP30 | 53.84  | 62.19  | 0.00   | 72.36  | 73.64  | 73.00  |
| YBADJ | TTP30 | 70.14  | 65.15  | 58.18  | 49.45  | 39.21  | 28.50  |
| YBADJ | TTP30 | 16.88  | 4.14   | -8.73  | -21.34 | -33.30 | -44.24 |
| YBADJ | TTP30 | -53.84 | -62.19 | 0.00   | -72.36 | -73.64 | -73.00 |
| YBADJ | TTP30 | -70.14 | -65.15 | -58.18 | -49.45 | -39.21 | -28.50 |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP31 | -13.62 | -1.01  | 11.64  | 23.94  | 35.50  | 45.99  |
| YBADJ | TTP31 | 55.08  | 62.88  | 0.00   | 71.90  | 72.63  | 71.46  |
| YBADJ | TTP31 | 68.12  | 62.71  | 55.39  | 46.40  | 35.99  | 25.21  |
| YBADJ | TTP31 | 13.62  | 1.01   | -11.64 | -23.94 | -35.50 | -45.99 |
| YBADJ | TTP31 | -55.08 | -62.88 | 0.00   | -71.90 | -72.63 | -71.46 |
| YBADJ | TTP31 | -68.12 | -62.71 | -55.39 | -46.40 | -35.99 | -25.21 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP32 | -10.77 | 1.70   | 14.11  | 26.10  | 37.29  | 47.35  |
| YBADJ | TTP32 | 55.97  | 63.27  | 0.00   | 71.28  | 71.52  | 69.90  |
| YBADJ | TTP32 | 66.15  | 60.40  | 52.81  | 43.61  | 33.09  | 22.29  |
| YBADJ | TTP32 | 10.77  | -1.70  | -14.11 | -26.10 | -37.29 | -47.35 |
| YBADJ | TTP32 | -55.97 | -63.27 | 0.00   | -71.28 | -71.52 | -69.90 |
| YBADJ | TTP32 | -66.15 | -60.40 | -52.81 | -43.61 | -33.09 | -22.29 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP33 | -7.76  | 4.56   | 16.75  | 28.43  | 39.25  | 48.87  |
| YBADJ | TTP33 | 57.01  | 63.79  | 0.00   | 70.75  | 70.48  | 68.37  |
| YBADJ | TTP33 | 64.19  | 58.06  | 50.16  | 40.74  | 30.09  | 19.24  |
| YBADJ | TTP33 | 7.76   | -4.56  | -16.75 | -28.43 | -39.25 | -48.87 |
| YBADJ | TTP33 | -57.01 | -63.79 | 0.00   | -70.75 | -70.48 | -68.37 |
| YBADJ | TTP33 | -64.19 | -58.06 | -50.16 | -40.74 | -30.09 | -19.24 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP34 | -4.69  | 7.45   | 19.37  | 30.70  | 41.10  | 50.24  |
| YBADJ | TTP34 | 57.86  | 64.11  | 0.00   | 69.96  | 69.17  | 66.58  |
| YBADJ | TTP34 | 61.98  | 55.49  | 47.31  | 37.69  | 26.93  | 16.08  |
| YBADJ | TTP34 | 4.69   | -7.45  | -19.37 | -30.70 | -41.10 | -50.24 |
| YBADJ | TTP34 | -57.86 | -64.11 | 0.00   | -69.96 | -69.17 | -66.58 |
| YBADJ | TTP34 | -61.98 | -55.48 | -47.31 | -37.69 | -26.93 | -16.08 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP35 | -1.71  | 10.28  | 21.95  | 32.96  | 42.96  | 51.66  |
| YBADJ | TTP35 | 58.80  | 64.52  | 0.00   | 69.31  | 68.01  | 64.96  |
| YBADJ | TTP35 | 59.92  | 53.07  | 44.61  | 34.79  | 23.91  | 13.03  |
| YBADJ | TTP35 | 1.71   | -10.28 | -21.95 | -32.96 | -42.96 | -51.66 |
| YBADJ | TTP35 | -58.80 | -64.52 | 0.00   | -69.31 | -68.01 | -64.96 |
| YBADJ | TTP35 | -59.92 | -53.07 | -44.61 | -34.79 | -23.91 | -13.03 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP36 | 1.19   | 13.06  | 24.54  | 35.27  | 44.93  | 53.23  |
| YBADJ | TTP36 | 59.91  | 65.14  | 0.00   | 68.93  | 67.13  | 63.60  |
| YBADJ | TTP36 | 58.14  | 50.91  | 42.14  | 32.08  | 21.05  | 10.11  |
| YBADJ | TTP36 | -1.19  | -13.06 | -24.54 | -35.27 | -44.93 | -53.23 |
| YBADJ | TTP36 | -59.91 | -65.14 | 0.00   | -68.93 | -67.13 | -63.60 |
| YBADJ | TTP36 | -58.14 | -50.91 | -42.14 | -32.08 | -21.05 | -10.11 |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP37 | 4.50   | 16.18  | 27.37  | 37.72  | 46.93  | 54.72  |
| YBADJ | TTP37 | 60.84  | 65.49  | 0.00   | 68.09  | 65.73  | 61.68  |
| YBADJ | TTP37 | 55.76  | 48.14  | 39.06  | 28.79  | 17.65  | 6.70   |
| YBADJ | TTP37 | -4.50  | -16.18 | -27.37 | -37.72 | -46.93 | -54.72 |
| YBADJ | TTP37 | -60.84 | -65.49 | 0.00   | -68.09 | -65.73 | -61.68 |
| YBADJ | TTP37 | -55.76 | -48.14 | -39.06 | -28.79 | -17.65 | -6.70  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP38 | 7.36   | 18.88  | 29.84  | 39.88  | 48.72  | 56.07  |
| YBADJ | TTP38 | 61.72  | 65.88  | 0.00   | 67.46  | 64.62  | 60.11  |
| YBADJ | TTP38 | 53.79  | 45.82  | 36.47  | 26.01  | 14.76  | 3.78   |
| YBADJ | TTP38 | -7.36  | -18.88 | -29.84 | -39.88 | -48.72 | -56.07 |
| YBADJ | TTP38 | -61.72 | -65.88 | 0.00   | -67.46 | -64.62 | -60.11 |
| YBADJ | TTP38 | -53.79 | -45.82 | -36.47 | -26.01 | -14.76 | -3.78  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP39 | 10.36  | 21.75  | 32.48  | 42.22  | 50.68  | 57.60  |
| YBADJ | TTP39 | 62.77  | 66.41  | 0.00   | 66.93  | 63.57  | 58.59  |
| YBADJ | TTP39 | 51.83  | 43.49  | 33.83  | 23.14  | 11.75  | 0.73   |
| YBADJ | TTP39 | -10.36 | -21.75 | -32.48 | -42.22 | -50.68 | -57.60 |
| YBADJ | TTP39 | -62.77 | -66.41 | 0.00   | -66.93 | -63.57 | -58.59 |
| YBADJ | TTP39 | -51.83 | -43.49 | -33.83 | -23.14 | -11.75 | -0.73  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP40 | 13.43  | 24.64  | 35.09  | 44.49  | 52.53  | 58.97  |
| YBADJ | TTP40 | 63.62  | 66.72  | 0.00   | 66.15  | 62.27  | 56.80  |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP40 | 49.61  | 40.91  | 30.97  | 20.09  | 8.60   | -2.43  |
| YBADJ | TTP40 | -13.43 | -24.64 | -35.09 | -44.49 | -52.53 | -58.97 |
| YBADJ | TTP40 | -63.62 | -66.72 | 0.00   | -66.15 | -62.27 | -56.80 |
| YBADJ | TTP40 | -49.61 | -40.91 | -30.97 | -20.09 | -8.60  | 2.43   |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP41 | 16.41  | 27.46  | 37.68  | 46.75  | 54.39  | 60.39  |
| YBADJ | TTP41 | 64.55  | 67.13  | 0.00   | 65.50  | 61.11  | 55.17  |
| YBADJ | TTP41 | 47.56  | 38.50  | 28.27  | 17.18  | 5.57   | -5.48  |
| YBADJ | TTP41 | -16.41 | -27.46 | -37.68 | -46.75 | -54.39 | -60.39 |
| YBADJ | TTP41 | -64.55 | -67.13 | 0.00   | -65.50 | -61.11 | -55.17 |
| YBADJ | TTP41 | -47.56 | -38.50 | -28.27 | -17.18 | -5.57  | 5.48   |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP42 | 19.31  | 30.25  | 40.26  | 49.06  | 56.36  | 61.96  |
| YBADJ | TTP42 | 65.66  | 67.76  | 0.00   | 65.11  | 60.22  | 53.82  |
| YBADJ | TTP42 | 45.77  | 36.34  | 25.80  | 14.48  | 2.72   | -8.40  |
| YBADJ | TTP42 | -19.31 | -30.25 | -40.26 | -49.06 | -56.36 | -61.96 |
| YBADJ | TTP42 | -65.66 | -67.76 | 0.00   | -65.11 | -60.22 | -53.82 |
| YBADJ | TTP42 | -45.77 | -36.34 | -25.80 | -14.48 | -2.72  | 8.40   |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP43 | 22.07  | 32.88  | 42.69  | 51.20  | 58.16  | 63.36  |
| YBADJ | TTP43 | 66.62  | 68.24  | 0.00   | 64.62  | 59.27  | 52.42  |
| YBADJ | TTP43 | 43.97  | 34.20  | 23.38  | 11.85  | -0.04  | -11.20 |
| YBADJ | TTP43 | -22.07 | -32.88 | -42.69 | -51.20 | -58.16 | -63.36 |
| YBADJ | TTP43 | -66.62 | -68.24 | 0.00   | -64.62 | -59.27 | -52.42 |
| YBADJ | TTP43 | -43.97 | -34.20 | -23.38 | -11.85 | 0.04   | 11.20  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP44 | 24.92  | 35.58  | 45.16  | 53.36  | 59.95  | 64.71  |
| YBADJ | TTP44 | 67.51  | 68.63  | 0.00   | 64.00  | 58.15  | 50.85  |
| YBADJ | TTP44 | 42.00  | 31.88  | 20.79  | 9.06   | -2.93  | -14.12 |
| YBADJ | TTP44 | -24.92 | -35.58 | -45.16 | -53.36 | -59.95 | -64.71 |
| YBADJ | TTP44 | -67.51 | -68.63 | 0.00   | -64.00 | -58.15 | -50.85 |
| YBADJ | TTP44 | -42.00 | -31.88 | -20.79 | -9.06  | 2.93   | 14.12  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP45 | 27.92  | 38.45  | 47.80  | 55.70  | 61.91  | 66.24  |
| YBADJ | TTP45 | 68.55  | 69.16  | 0.00   | 63.47  | 57.11  | 49.33  |
| YBADJ | TTP45 | 40.04  | 29.54  | 18.15  | 6.20   | -5.94  | -17.17 |
| YBADJ | TTP45 | -27.92 | -38.45 | -47.80 | -55.70 | -61.91 | -66.24 |
| YBADJ | TTP45 | -68.55 | -69.16 | 0.00   | -63.47 | -57.11 | -49.33 |
| YBADJ | TTP45 | -40.04 | -29.54 | -18.15 | -6.20  | 5.94   | 17.17  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP46 | 30.99  | 41.33  | 50.41  | 57.96  | 63.75  | 67.60  |
| YBADJ | TTP46 | 69.40  | 69.46  | 0.00   | 62.67  | 55.80  | 47.53  |
| YBADJ | TTP46 | 37.82  | 26.96  | 15.29  | 3.14   | -9.09  | -20.33 |
| YBADJ | TTP46 | -30.99 | -41.33 | -50.41 | -57.96 | -63.75 | -67.60 |
| YBADJ | TTP46 | -69.40 | -69.46 | 0.00   | -62.67 | -55.80 | -47.53 |
| YBADJ | TTP46 | -37.82 | -26.96 | -15.29 | -3.14  | 9.09   | 20.33  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP47 | 33.98  | 44.16  | 52.99  | 60.22  | 65.62  | 69.02  |
| YBADJ | TTP47 | 70.33  | 69.88  | 0.00   | 62.03  | 54.64  | 45.90  |
| YBADJ | TTP47 | 35.77  | 24.55  | 12.58  | 0.24   | -12.12 | -23.38 |
| YBADJ | TTP47 | -33.98 | -44.16 | -52.99 | -60.22 | -65.62 | -69.02 |
| YBADJ | TTP47 | -70.33 | -69.88 | 0.00   | -62.03 | -54.64 | -45.90 |
| YBADJ | TTP47 | -35.77 | -24.55 | -12.58 | -0.24  | 12.12  | 23.38  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP48 | 36.87  | 46.94  | 55.58  | 62.53  | 67.59  | 70.58  |
| YBADJ | TTP48 | 71.44  | 70.50  | 0.00   | 61.64  | 53.75  | 44.55  |
| YBADJ | TTP48 | 33.98  | 22.39  | 10.12  | -2.47  | -14.97 | -26.30 |
| YBADJ | TTP48 | -36.87 | -46.94 | -55.58 | -62.53 | -67.59 | -70.58 |
| YBADJ | TTP48 | -71.44 | -70.50 | 0.00   | -61.64 | -53.75 | -44.55 |
| YBADJ | TTP48 | -33.98 | -22.39 | -10.12 | 2.47   | 14.97  | 26.30  |
|       |       |        |        |        |        |        |        |
| YBADJ | TTP49 | 40.21  | 50.10  | 58.47  | 65.07  | 69.69  | 72.19  |
| YBADJ | TTP49 | 72.49  | 70.98  | 0.00   | 60.93  | 52.47  | 42.74  |
| YBADJ | TTP49 | 31.70  | 19.70  | 7.10   | -5.71  | -18.35 | -29.71 |
| YBADJ | TTP49 | -40.21 | -50.10 | -58.47 | -65.07 | -69.69 | -72.19 |
| YBADJ | TTP49 | -72.49 | -70.98 | 0.00   | -60.93 | -52.47 | -42.74 |

|       |       |        |        |        |        |        |        |
|-------|-------|--------|--------|--------|--------|--------|--------|
| YBADJ | TTP49 | -31.70 | -19.70 | -7.10  | 5.71   | 18.35  | 29.71  |
| YBADJ | TTP50 | 43.06  | 52.81  | 60.94  | 67.23  | 71.47  | 73.54  |
| YBADJ | TTP50 | 73.38  | 71.36  | 0.00   | 60.30  | 51.36  | 41.17  |
| YBADJ | TTP50 | 29.73  | 17.39  | 4.51   | -8.50  | -21.25 | -32.63 |
| YBADJ | TTP50 | -43.06 | -52.81 | -60.94 | -67.23 | -71.47 | -73.54 |
| YBADJ | TTP50 | -73.38 | -71.36 | 0.00   | -60.30 | -51.36 | -41.17 |
| YBADJ | TTP50 | -29.73 | -17.39 | -4.51  | 8.50   | 21.25  | 32.63  |
| YBADJ | TTP51 | 46.07  | 55.67  | 63.58  | 69.56  | 73.43  | 75.07  |
| YBADJ | TTP51 | 74.42  | 71.89  | 0.00   | 59.77  | 50.32  | 39.65  |
| YBADJ | TTP51 | 27.77  | 15.05  | 1.87   | -11.36 | -24.25 | -35.68 |
| YBADJ | TTP51 | -46.07 | -55.67 | -63.58 | -69.56 | -73.43 | -75.07 |
| YBADJ | TTP51 | -74.42 | -71.89 | 0.00   | -59.77 | -50.32 | -39.65 |
| YBADJ | TTP51 | -27.77 | -15.05 | -1.87  | 11.36  | 24.25  | 35.68  |
| YBADJ | TTP52 | 49.14  | 58.56  | 66.20  | 71.83  | 75.28  | 76.44  |
| YBADJ | TTP52 | 75.28  | 72.21  | 0.00   | 58.99  | 49.01  | 37.86  |
| YBADJ | TTP52 | 25.56  | 12.48  | -0.98  | -14.41 | -27.41 | -38.84 |
| YBADJ | TTP52 | -49.14 | -58.56 | -66.20 | -71.83 | -75.28 | -76.44 |
| YBADJ | TTP52 | -75.28 | -72.21 | 0.00   | -58.99 | -49.01 | -37.86 |
| YBADJ | TTP52 | -25.56 | -12.48 | 0.98   | 14.41  | 27.41  | 38.84  |
| YBADJ | TTP53 | 52.12  | 61.38  | 68.78  | 74.08  | 77.14  | 77.85  |
| YBADJ | TTP53 | 76.20  | 72.61  | 0.00   | 58.33  | 47.85  | 36.22  |
| YBADJ | TTP53 | 23.50  | 10.06  | -3.69  | -17.32 | -30.43 | -41.89 |
| YBADJ | TTP53 | -52.12 | -61.38 | -68.78 | -74.08 | -77.14 | -77.85 |
| YBADJ | TTP53 | -76.20 | -72.61 | 0.00   | -58.33 | -47.85 | -36.22 |
| YBADJ | TTP53 | -23.50 | -10.06 | 3.69   | 17.32  | 30.43  | 41.89  |
| YBADJ | TTP54 | 55.02  | 64.17  | 71.37  | 76.40  | 79.12  | 79.42  |
| YBADJ | TTP54 | 77.32  | 73.24  | 0.00   | 57.95  | 46.97  | 34.88  |
| YBADJ | TTP54 | 21.72  | 7.90   | -6.15  | -20.02 | -33.29 | -44.81 |
| YBADJ | TTP54 | -55.02 | -64.17 | -71.37 | -76.40 | -79.12 | -79.42 |
| YBADJ | TTP54 | -77.32 | -73.24 | 0.00   | -57.95 | -46.97 | -34.88 |
| YBADJ | TTP54 | -21.72 | -7.90  | 6.15   | 20.02  | 33.29  | 44.81  |
| YBADJ | TTP55 | 57.95  | 66.90  | 73.82  | 78.50  | 80.79  | 80.62  |
| YBADJ | TTP55 | 78.01  | 73.41  | 0.00   | 57.06  | 45.58  | 33.03  |
| YBADJ | TTP55 | 19.48  | 5.34   | -8.97  | -23.01 | -36.34 | -47.85 |
| YBADJ | TTP55 | -57.95 | -66.90 | -73.82 | -78.50 | -80.79 | -80.62 |
| YBADJ | TTP55 | -78.01 | -73.41 | 0.00   | -57.06 | -45.58 | -33.03 |
| YBADJ | TTP55 | -19.48 | -5.34  | 8.97   | 23.01  | 36.34  | 47.85  |
| YBADJ | TTP56 | 60.81  | 69.61  | 76.30  | 80.66  | 82.58  | 81.98  |
| YBADJ | TTP56 | 78.90  | 73.80  | 0.00   | 56.43  | 44.47  | 31.47  |
| YBADJ | TTP56 | 17.51  | 3.01   | -11.57 | -25.80 | -39.25 | -50.78 |
| YBADJ | TTP56 | -60.81 | -69.61 | -76.30 | -80.66 | -82.58 | -81.98 |
| YBADJ | TTP56 | -78.90 | -73.80 | 0.00   | -56.43 | -44.47 | -31.47 |
| YBADJ | TTP56 | -17.51 | -3.01  | 11.57  | 25.80  | 39.25  | 50.78  |
| YBADJ | TTP57 | 63.81  | 72.47  | 78.93  | 82.99  | 84.53  | 83.50  |
| YBADJ | TTP57 | 79.94  | 74.32  | 0.00   | 55.90  | 43.43  | 29.95  |
| YBADJ | TTP57 | 15.55  | 0.69   | -14.20 | -28.66 | -42.24 | -53.82 |
| YBADJ | TTP57 | -63.81 | -72.47 | -78.93 | -82.99 | -84.53 | -83.50 |
| YBADJ | TTP57 | -79.94 | -74.32 | 0.00   | -55.90 | -43.43 | -29.95 |
| YBADJ | TTP57 | -15.55 | -0.69  | 14.20  | 28.66  | 42.24  | 53.82  |
| YBADJ | TTP58 | 66.89  | 75.37  | 81.55  | 85.27  | 86.39  | 84.88  |
| YBADJ | TTP58 | 80.80  | 74.64  | 0.00   | 55.12  | 42.12  | 28.15  |
| YBADJ | TTP58 | 13.33  | -1.90  | -17.07 | -31.72 | -45.41 | -56.99 |
| YBADJ | TTP58 | -66.89 | -75.37 | -81.55 | -85.27 | -86.39 | -84.88 |
| YBADJ | TTP58 | -80.80 | -74.64 | 0.00   | -55.12 | -42.12 | -28.15 |
| YBADJ | TTP58 | -13.33 | 1.90   | 17.07  | 31.72  | 45.41  | 56.99  |
| YBADJ | TTP59 | 69.86  | 78.18  | 84.12  | 87.51  | 88.24  | 86.29  |

|       |       |        |         |         |         |         |        |
|-------|-------|--------|---------|---------|---------|---------|--------|
| YBADJ | TTP59 | 81.72  | 75.04   | 0.00    | 54.46   | 40.96   | 26.52  |
| YBADJ | TTP59 | 11.28  | -4.31   | -19.77  | -34.62  | -48.42  | -60.03 |
| YBADJ | TTP59 | -69.86 | -78.18  | -84.12  | -87.51  | -88.24  | -86.29 |
| YBADJ | TTP59 | -81.72 | -75.04  | 0.00    | -54.46  | -40.96  | -26.52 |
| YBADJ | TTP59 | -11.28 | 4.31    | 19.77   | 34.62   | 48.42   | 60.03  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP60 | 72.76  | 80.97   | 86.72   | 89.83   | 90.22   | 87.86  |
| YBADJ | TTP60 | 82.84  | 75.67   | 0.00    | 54.08   | 40.08   | 25.17  |
| YBADJ | TTP60 | 9.50   | -6.46   | -22.23  | -37.32  | -51.28  | -62.95 |
| YBADJ | TTP60 | -72.76 | -80.97  | -86.72  | -89.83  | -90.22  | -87.86 |
| YBADJ | TTP60 | -82.84 | -75.67  | 0.00    | -54.08  | -40.08  | -25.17 |
| YBADJ | TTP60 | -9.50  | 6.46    | 22.23   | 37.32   | 51.28   | 62.95  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP61 | 76.02  | 84.10   | 89.63   | 92.43   | 92.42   | 89.61  |
| YBADJ | TTP61 | 84.07  | 0.00    | 0.00    | 53.63   | 39.07   | 23.63  |
| YBADJ | TTP61 | 7.48   | -8.91   | -25.02  | -40.37  | -54.50  | -66.24 |
| YBADJ | TTP61 | -76.02 | -84.10  | -89.63  | -92.43  | -92.42  | -89.61 |
| YBADJ | TTP61 | -84.07 | 0.00    | 0.00    | -53.63  | -39.07  | -23.63 |
| YBADJ | TTP61 | -7.48  | 8.91    | 25.02   | 40.37   | 54.50   | 66.24  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP62 | 78.88  | 86.81   | 92.10   | 94.60   | 94.22   | 90.97  |
| YBADJ | TTP62 | 84.96  | 0.00    | 0.00    | 53.00   | 37.95   | 22.06  |
| YBADJ | TTP62 | 5.50   | -11.23  | -27.62  | -43.16  | -57.40  | -69.17 |
| YBADJ | TTP62 | -78.88 | -86.81  | -92.10  | -94.60  | -94.22  | -90.97 |
| YBADJ | TTP62 | -84.96 | 0.00    | 0.00    | -53.00  | -37.95  | -22.06 |
| YBADJ | TTP62 | -5.50  | 11.23   | 27.62   | 43.16   | 57.40   | 69.17  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP63 | 81.88  | 89.67   | 94.74   | 96.93   | 96.17   | 92.49  |
| YBADJ | TTP63 | 86.00  | 0.00    | 0.00    | 52.47   | 36.91   | 20.54  |
| YBADJ | TTP63 | 3.55   | -13.56  | -30.25  | -46.02  | -60.40  | -72.21 |
| YBADJ | TTP63 | -81.88 | -89.67  | -94.74  | -96.93  | -96.17  | -92.49 |
| YBADJ | TTP63 | -86.00 | 0.00    | 0.00    | -52.47  | -36.91  | -20.54 |
| YBADJ | TTP63 | -3.55  | 13.56   | 30.25   | 46.02   | 60.40   | 72.21  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP64 | 84.95  | 92.56   | 97.36   | 99.19   | 98.02   | 93.86  |
| YBADJ | TTP64 | 86.85  | 0.00    | 0.00    | 51.68   | 35.60   | 18.74  |
| YBADJ | TTP64 | 1.32   | -16.15  | -33.12  | -49.09  | -63.56  | -75.38 |
| YBADJ | TTP64 | -84.95 | -92.56  | -97.36  | -99.19  | -98.02  | -93.86 |
| YBADJ | TTP64 | -86.85 | 0.00    | 0.00    | -51.68  | -35.60  | -18.74 |
| YBADJ | TTP64 | -1.32  | 16.15   | 33.12   | 49.09   | 63.56   | 75.38  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP65 | 87.93  | 95.38   | 99.93   | 101.44  | 99.88   | 95.28  |
| YBADJ | TTP65 | 87.78  | 0.00    | 0.00    | 51.03   | 34.44   | 17.12  |
| YBADJ | TTP65 | -0.73  | -18.55  | -35.81  | -51.98  | -66.58  | -78.42 |
| YBADJ | TTP65 | -87.93 | -95.38  | -99.93  | -101.44 | -99.88  | -95.28 |
| YBADJ | TTP65 | -87.78 | 0.00    | 0.00    | -51.03  | -34.44  | -17.12 |
| YBADJ | TTP65 | 0.73   | 18.55   | 35.81   | 51.98   | 66.58   | 78.42  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP66 | 90.82  | 98.16   | 102.52  | 103.76  | 101.85  | 96.84  |
| YBADJ | TTP66 | 88.89  | 0.00    | 0.00    | 50.64   | 33.56   | 15.76  |
| YBADJ | TTP66 | -2.51  | -20.71  | -38.28  | -54.69  | -69.43  | -81.34 |
| YBADJ | TTP66 | -90.82 | -98.16  | -102.52 | -103.76 | -101.85 | -96.84 |
| YBADJ | TTP66 | -88.89 | 0.00    | 0.00    | -50.64  | -33.56  | -15.76 |
| YBADJ | TTP66 | 2.51   | 20.71   | 38.28   | 54.69   | 69.43   | 81.34  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP67 | 93.79  | 100.95  | 105.04  | 105.94  | 103.62  | 98.16  |
| YBADJ | TTP67 | 89.71  | 0.00    | 0.00    | 49.88   | 32.29   | 14.03  |
| YBADJ | TTP67 | -4.66  | -23.20  | -41.04  | -57.63  | -72.48  | -84.39 |
| YBADJ | TTP67 | -93.79 | -100.95 | -105.04 | -105.94 | -103.62 | -98.16 |
| YBADJ | TTP67 | -89.71 | 0.00    | 0.00    | -49.88  | -32.29  | -14.03 |
| YBADJ | TTP67 | 4.66   | 23.20   | 41.04   | 57.63   | 72.48   | 84.39  |
|       |       |        |         |         |         |         |        |
| YBADJ | TTP68 | 96.64  | 103.65  | 107.51  | 108.10  | 105.41  | 99.51  |
| YBADJ | TTP68 | 90.60  | 0.00    | 0.00    | 49.25   | 31.18   | 12.46  |
| YBADJ | TTP68 | -6.63  | -25.52  | -43.63  | -60.42  | -75.37  | -87.31 |
| YBADJ | TTP68 | -96.64 | -103.65 | -107.51 | -108.10 | -105.41 | -99.51 |

|       |       |         |         |         |         |         |         |
|-------|-------|---------|---------|---------|---------|---------|---------|
| YBADJ | TTP68 | -90.60  | 0.00    | 0.00    | -49.25  | -31.18  | -12.46  |
| YBADJ | TTP68 | 6.63    | 25.52   | 43.63   | 60.42   | 75.37   | 87.31   |
| YBADJ | TTP69 | 99.63   | 106.51  | 110.14  | 110.43  | 107.36  | 101.03  |
| YBADJ | TTP69 | 91.63   | 0.00    | 0.00    | 48.72   | 30.14   | 10.94   |
| YBADJ | TTP69 | -8.58   | -27.84  | -46.26  | -63.28  | -78.37  | -90.35  |
| YBADJ | TTP69 | -99.63  | -106.51 | -110.14 | -110.43 | -107.36 | -101.03 |
| YBADJ | TTP69 | -91.63  | 0.00    | 0.00    | -48.72  | -30.14  | -10.94  |
| YBADJ | TTP69 | 8.58    | 27.84   | 46.26   | 63.28   | 78.37   | 90.35   |
| YBADJ | TTP70 | 102.71  | 109.40  | 112.76  | 112.70  | 109.21  | 102.40  |
| YBADJ | TTP70 | 92.48   | 0.00    | 0.00    | 47.93   | 28.82   | 9.14    |
| YBADJ | TTP70 | -10.81  | -30.43  | -49.13  | -66.34  | -81.53  | -93.52  |
| YBADJ | TTP70 | -102.71 | -109.40 | -112.76 | -112.70 | -109.21 | -102.40 |
| YBADJ | TTP70 | -92.48  | 0.00    | 0.00    | -47.93  | -28.82  | -9.14   |
| YBADJ | TTP70 | 10.81   | 30.43   | 49.13   | 66.34   | 81.53   | 93.52   |
| YBADJ | TTP71 | 105.69  | 112.21  | 115.33  | 114.95  | 111.07  | 103.82  |
| YBADJ | TTP71 | 93.41   | 0.00    | 0.00    | 47.28   | 27.67   | 7.52    |
| YBADJ | TTP71 | -12.86  | -32.84  | -51.83  | -69.24  | -84.55  | -96.56  |
| YBADJ | TTP71 | -105.69 | -112.21 | -115.33 | -114.95 | -111.07 | -103.82 |
| YBADJ | TTP71 | -93.41  | 0.00    | 0.00    | -47.28  | -27.67  | -7.52   |
| YBADJ | TTP71 | 12.86   | 32.84   | 51.83   | 69.24   | 84.55   | 96.56   |
| YBADJ | TTP72 | 108.59  | 115.01  | 117.93  | 117.27  | 113.05  | 105.39  |
| YBADJ | TTP72 | 94.53   | 0.00    | 0.00    | 46.89   | 26.78   | 6.16    |
| YBADJ | TTP72 | -14.65  | -35.01  | -54.30  | -71.95  | -87.41  | -99.49  |
| YBADJ | TTP72 | -108.59 | -115.01 | -117.93 | -117.27 | -113.05 | -105.39 |
| YBADJ | TTP72 | -94.53  | 0.00    | 0.00    | -46.89  | -26.78  | -6.16   |
| YBADJ | TTP72 | 14.65   | 35.01   | 54.30   | 71.95   | 87.41   | 99.49   |
| YBADJ | TTP73 | 111.68  | 117.94  | 120.61  | 119.61  | 114.99  | 106.86  |
| YBADJ | TTP73 | 95.49   | 0.00    | 0.00    | 46.22   | 25.58   | 4.47    |
| YBADJ | TTP73 | -16.77  | -37.51  | -57.10  | -74.96  | -90.54  | -102.65 |
| YBADJ | TTP73 | -111.68 | -117.94 | -120.61 | -119.61 | -114.99 | -106.86 |
| YBADJ | TTP73 | -95.49  | 0.00    | 0.00    | -46.22  | -25.58  | -4.47   |
| YBADJ | TTP73 | 16.77   | 37.51   | 57.10   | 74.96   | 90.54   | 102.65  |
| YBADJ | TTP74 | 114.55  | 120.65  | 123.08  | 121.78  | 116.78  | 108.22  |
| YBADJ | TTP74 | 96.38   | 0.00    | 0.00    | 45.60   | 24.47   | 2.91    |
| YBADJ | TTP74 | -18.75  | -39.83  | -59.70  | -77.76  | -93.45  | -105.58 |
| YBADJ | TTP74 | -114.55 | -120.65 | -123.08 | -121.78 | -116.78 | -108.22 |
| YBADJ | TTP74 | -96.38  | 0.00    | 0.00    | -45.60  | -24.47  | -2.91   |
| YBADJ | TTP74 | 18.75   | 39.83   | 59.70   | 77.76   | 93.45   | 105.58  |
| YBADJ | TTP75 | 117.54  | 123.51  | 125.72  | 124.11  | 118.73  | 109.74  |
| YBADJ | TTP75 | 97.42   | 0.00    | 0.00    | 45.07   | 23.43   | 1.39    |
| YBADJ | TTP75 | -20.70  | -42.16  | -62.33  | -80.61  | -96.44  | -108.62 |
| YBADJ | TTP75 | -117.54 | -123.51 | -125.72 | -124.11 | -118.73 | -109.74 |
| YBADJ | TTP75 | -97.42  | 0.00    | 0.00    | -45.07  | -23.43  | -1.39   |
| YBADJ | TTP75 | 20.70   | 42.16   | 62.33   | 80.61   | 96.44   | 108.62  |
| YBADJ | TTP76 | 120.62  | 126.40  | 128.34  | 126.38  | 120.58  | 111.12  |
| YBADJ | TTP76 | 98.28   | 0.00    | 0.00    | 44.28   | 22.12   | -0.41   |
| YBADJ | TTP76 | -22.92  | -44.74  | -65.20  | -83.67  | -99.61  | -111.79 |
| YBADJ | TTP76 | -120.62 | -126.40 | -128.34 | -126.38 | -120.58 | -111.12 |
| YBADJ | TTP76 | -98.28  | 0.00    | 0.00    | -44.28  | -22.12  | 0.41    |
| YBADJ | TTP76 | 22.92   | 44.74   | 65.20   | 83.67   | 99.61   | 111.79  |
| YBADJ | TTP77 | 123.59  | 129.21  | 130.91  | 128.63  | 122.44  | 112.53  |
| YBADJ | TTP77 | 99.20   | 0.00    | 0.00    | 43.63   | 20.96   | -2.04   |
| YBADJ | TTP77 | -24.97  | -47.15  | -67.89  | -86.57  | -102.62 | -114.83 |
| YBADJ | TTP77 | -123.59 | -129.21 | -130.91 | -128.63 | -122.44 | -112.53 |
| YBADJ | TTP77 | -99.20  | 0.00    | 0.00    | -43.63  | -20.96  | 2.04    |
| YBADJ | TTP77 | 24.97   | 47.15   | 67.89   | 86.57   | 102.62  | 114.83  |



[illegible]



OU STARTING  
\*\* Auto-Generated Plotfiles  
PLOTFILE PERIOD ALL "15639 OPS HRA MITIGATED.AD\PE00GALL.PLT" 31  
SUMMFILE "15639 Ops HRA Mitigated.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 133 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

|         |      |                                                          |    |
|---------|------|----------------------------------------------------------|----|
| SO W320 | 1417 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1418 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1419 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1420 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1421 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1422 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1423 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1424 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1425 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1426 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1427 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1428 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1429 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1430 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1431 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1432 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1433 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1434 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1435 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1436 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1437 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1438 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1439 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1440 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1441 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1442 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1443 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1444 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1445 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1446 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1447 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1448 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1449 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1450 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1451 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1452 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1453 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1454 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1455 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1456 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1457 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1458 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1459 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1460 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |
| SO W320 | 1461 | PPARM: Input Parameter May Be Out-of-Range for Parameter | VS |

[illegible]

|         |      |                                                           |      |
|---------|------|-----------------------------------------------------------|------|
| SO W320 | 1574 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1575 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1576 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1577 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1578 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1579 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1580 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1581 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1582 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1583 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1584 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1585 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1586 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1587 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1588 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1589 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1590 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1591 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1634 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1635 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| ME W186 | 8704 | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50 |
| ME W187 | 8704 | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |      |

\*\*\*\*\*  
 \*\*\* SETUP Finishes Successfully \*\*\*  
 \*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 11:04:36

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 1003 Source(s),  
 for Total of 1 Urban Area(s):  
 Urban Population = 62651.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* 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: DPM

\*\*Model Calculates PERIOD Averages Only

\*\*This Run Includes: 1003 Source(s); 1 Source Group(s); and 119 Receptor(s)  
 with: 177 POINT(s), including

and: 0 POINTCAP(s) and 0 POINTHOR(s)  
 and: 826 VOLUME source(s)  
 and: 0 AREA type source(s)  
 and: 0 LINE source(s)  
 and: 0 RLINE/RLINEXT source(s)  
 and: 0 OPENPIT source(s)  
 and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
 and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNning After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 21112

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
 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) = 30.00 ; 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 = 6.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15639 Ops HRA

Mitigated.err

\*\*File for Summary of Results: 15639 Ops HRA

Mitigated.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT SOURCE DATA \*\*\*

| SOURCE | DIAMETER | ID | STACK PART. | NUMBER EXISTS | EMISSION SOURCE | RATE HOR | BASE ELEV. | STACK HEIGHT | STACK TEMP. | STACK EXIT VEL. |       |
|--------|----------|----|-------------|---------------|-----------------|----------|------------|--------------|-------------|-----------------|-------|
|        | (METERS) |    |             |               | (GRAMS/SEC)     | SCALAR   | (METERS)   | (METERS)     | (DEG.K)     | (M/SEC)         |       |
|        |          |    | CATS.       |               |                 | VARY BY  |            |              |             |                 |       |
| IDLE1  |          | 0  |             |               | 0.84776E-06     | 658435.2 | 4184223.5  | 13.3         | 3.84        | 366.00          | 51.71 |
| 0.10   | YES      |    | YES         | NO            |                 |          |            |              |             |                 |       |
| IDLE2  |          | 0  |             |               | 0.84776E-06     | 658439.2 | 4184223.7  | 13.3         | 3.84        | 366.00          | 51.71 |
| 0.10   | YES      |    | YES         | NO            |                 |          |            |              |             |                 |       |
| IDLE3  |          | 0  |             |               | 0.84776E-06     | 658443.0 | 4184223.7  | 13.3         | 3.84        | 366.00          | 51.71 |

|        |     |     |             |          |           |      |      |        |       |
|--------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE4  |     | 0   | 0.84776E-06 | 658447.0 | 4184223.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE5  |     | 0   | 0.84776E-06 | 658451.1 | 4184223.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE6  |     | 0   | 0.84776E-06 | 658458.9 | 4184224.1 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE7  |     | 0   | 0.84776E-06 | 658462.9 | 4184224.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE8  |     | 0   | 0.84776E-06 | 658466.7 | 4184224.4 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE9  |     | 0   | 0.84776E-06 | 658470.7 | 4184224.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE10 |     | 0   | 0.84776E-06 | 658474.8 | 4184224.6 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE11 |     | 0   | 0.84776E-06 | 658478.8 | 4184224.8 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE12 |     | 0   | 0.84776E-06 | 658482.7 | 4184224.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE13 |     | 0   | 0.84776E-06 | 658506.3 | 4184225.4 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE14 |     | 0   | 0.84776E-06 | 658510.3 | 4184225.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE15 |     | 0   | 0.84776E-06 | 658514.3 | 4184225.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE16 |     | 0   | 0.84776E-06 | 658490.4 | 4184224.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE17 |     | 0   | 0.84776E-06 | 658494.4 | 4184225.1 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE18 |     | 0   | 0.84776E-06 | 658498.2 | 4184225.2 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE19 |     | 0   | 0.84776E-06 | 658502.2 | 4184225.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE20 |     | 0   | 0.84776E-06 | 658538.1 | 4184226.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE21 |     | 0   | 0.84776E-06 | 658542.0 | 4184226.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE22 |     | 0   | 0.84776E-06 | 658546.0 | 4184226.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE23 |     | 0   | 0.84776E-06 | 658522.2 | 4184225.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE24 |     | 0   | 0.84776E-06 | 658526.2 | 4184226.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE25 |     | 0   | 0.84776E-06 | 658530.0 | 4184226.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE26 |     | 0   | 0.84776E-06 | 658534.0 | 4184226.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE27 |     | 0   | 0.84776E-06 | 658569.6 | 4184227.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE28 |     | 0   | 0.84776E-06 | 658573.5 | 4184227.2 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE29 |     | 0   | 0.84776E-06 | 658577.5 | 4184227.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE30 |     | 0   | 0.84776E-06 | 658553.6 | 4184226.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE31 |     | 0   | 0.84776E-06 | 658557.7 | 4184226.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE32 |     | 0   | 0.84776E-06 | 658561.5 | 4184226.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE33 |     | 0   | 0.84776E-06 | 658565.5 | 4184227.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE34 |     | 0   | 0.84776E-06 | 658601.3 | 4184227.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE35 |     | 0   | 0.84776E-06 | 658605.3 | 4184228.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE36 |     | 0   | 0.84776E-06 | 658609.3 | 4184228.2 | 13.2 | 3.84 | 366.00 | 51.71 |

```
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
```

\*\*\* AERMET - VERSION 21112 \*\*\*

\* \* \*

\* \* \*

11:04:36

PAGE 3

```
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*
```

\*\*\* POINT SOURCE DATA \*\*\*

| SOURCE   | NUMBER EMISSION RATE |                     |            |           | BASE<br>ELEV. | STACK<br>HEIGHT | STACK<br>TEMP. | STACK<br>EXIT VEL. |
|----------|----------------------|---------------------|------------|-----------|---------------|-----------------|----------------|--------------------|
|          | STACK<br>PART.       | BLDG<br>(GRAMS/SEC) | URBAN<br>X | CAP/<br>Y |               |                 |                |                    |
| DIAMETER | EXISTS               | SOURCE              | HOR        | SCALAR    |               |                 |                |                    |
| ID       | CATS.                |                     |            | (METERS)  | (METERS)      | (METERS)        | (METERS)       | (DEG.K)            |
| (METERS) |                      |                     |            | VARY BY   |               |                 |                |                    |

|        |     |     |             |          |           |      |      |        |       |
|--------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| IDLE41 |     | 0   | 0.84776E-06 | 658633.0 | 4184228.7 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE42 |     | 0   | 0.84776E-06 | 658636.9 | 4184228.9 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE43 |     | 0   | 0.84776E-06 | 658617.0 | 4184228.3 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE44 |     | 0   | 0.84776E-06 | 658621.1 | 4184228.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE45 |     | 0   | 0.84776E-06 | 658624.9 | 4184228.5 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| IDLE46 |     | 0   | 0.84776E-06 | 658628.9 | 4184228.7 | 13.3 | 3.84 | 366.00 | 51.71 |
| 0.10   | YES | YES | NO          |          |           |      |      |        |       |
| TRU1   |     | 0   | 0.89121E-05 | 658435.1 | 4184226.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU2   |     | 0   | 0.89121E-05 | 658439.1 | 4184226.2 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU3   |     | 0   | 0.89121E-05 | 658443.0 | 4184226.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU4   |     | 0   | 0.89121E-05 | 658446.9 | 4184226.4 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU5   |     | 0   | 0.89121E-05 | 658450.8 | 4184226.5 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU6   |     | 0   | 0.89121E-05 | 658458.8 | 4184226.8 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU7   |     | 0   | 0.89121E-05 | 658462.8 | 4184226.8 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU8   |     | 0   | 0.89121E-05 | 658466.7 | 4184226.9 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU9   |     | 0   | 0.89121E-05 | 658470.5 | 4184227.0 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU10  |     | 0   | 0.89121E-05 | 658474.5 | 4184227.1 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU11  |     | 0   | 0.89121E-05 | 658478.5 | 4184227.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU12  |     | 0   | 0.89121E-05 | 658482.6 | 4184227.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04   | YES | YES | NO          |          |           |      |      |        |       |
| TRU13  |     | 0   | 0.89121E-05 | 658490.3 | 4184227.7 | 13.3 | 3.96 | 501.00 | 49.00 |

|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| TRU35 |     | 0   | 0.89121E-05 | 658589.2 | 4184230.2 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU36 |     | 0   | 0.89121E-05 | 658593.1 | 4184230.3 | 13.2 | 3.96 | 501.00 | 49.00 |

|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU37 |     | 0   | 0.89121E-05 | 658597.0 | 4184230.4 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU38 |     | 0   | 0.89121E-05 | 658601.0 | 4184230.5 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU39 |     | 0   | 0.89121E-05 | 658605.0 | 4184230.7 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU40 |     | 0   | 0.89121E-05 | 658609.0 | 4184230.7 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU41 |     | 0   | 0.89121E-05 | 658616.8 | 4184231.1 | 13.2 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU42 |     | 0   | 0.89121E-05 | 658620.8 | 4184231.1 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU43 |     | 0   | 0.89121E-05 | 658624.7 | 4184231.2 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU44 |     | 0   | 0.89121E-05 | 658628.5 | 4184231.3 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU45 |     | 0   | 0.89121E-05 | 658632.5 | 4184231.4 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TRU46 |     | 0   | 0.89121E-05 | 658636.5 | 4184231.6 | 13.3 | 3.96 | 501.00 | 49.00 |
| 0.04  | YES | YES | NO          |          |           |      |      |        |       |
| TTP1  |     | 0   | 0.15661E-06 | 658419.2 | 4184197.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP2  |     | 0   | 0.15661E-06 | 658422.1 | 4184197.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP3  |     | 0   | 0.15661E-06 | 658425.2 | 4184197.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP4  |     | 0   | 0.15661E-06 | 658428.4 | 4184197.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP5  |     | 0   | 0.15661E-06 | 658431.4 | 4184197.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP6  |     | 0   | 0.15661E-06 | 658434.3 | 4184197.7 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP7  |     | 0   | 0.15661E-06 | 658437.2 | 4184197.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP8  |     | 0   | 0.15661E-06 | 658440.2 | 4184198.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP9  |     | 0   | 0.15661E-06 | 658443.2 | 4184198.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP10 |     | 0   | 0.15661E-06 | 658446.4 | 4184198.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP11 |     | 0   | 0.15661E-06 | 658449.4 | 4184198.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP12 |     | 0   | 0.15661E-06 | 658452.3 | 4184198.3 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP13 |     | 0   | 0.15661E-06 | 658455.6 | 4184198.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP14 |     | 0   | 0.15661E-06 | 658458.6 | 4184198.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP15 |     | 0   | 0.15661E-06 | 658461.6 | 4184198.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP16 |     | 0   | 0.15661E-06 | 658464.8 | 4184198.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP17 |     | 0   | 0.15661E-06 | 658467.8 | 4184198.9 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP18 |     | 0   | 0.15661E-06 | 658470.7 | 4184198.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP19 |     | 0   | 0.15661E-06 | 658474.0 | 4184199.0 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP20 |     | 0   | 0.15661E-06 | 658476.9 | 4184199.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP21 |     | 0   | 0.15661E-06 | 658480.0 | 4184199.1 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP22 |     | 0   | 0.15661E-06 | 658483.2 | 4184199.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP23 |     | 0   | 0.15661E-06 | 658486.2 | 4184199.5 | 13.2 | 3.84 | 366.00 | 51.71 |



|       |     |     |             |          |           |      |      |        |       |
|-------|-----|-----|-------------|----------|-----------|------|------|--------|-------|
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP24 |     | 0   | 0.15661E-06 | 658489.1 | 4184199.4 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP25 |     | 0   | 0.15661E-06 | 658491.9 | 4184199.5 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP26 |     | 0   | 0.15661E-06 | 658494.8 | 4184199.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP27 |     | 0   | 0.15661E-06 | 658497.9 | 4184199.6 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |
| TTP28 |     | 0   | 0.15661E-06 | 658501.1 | 4184199.8 | 13.2 | 3.84 | 366.00 | 51.71 |
| 0.10  | YES | YES | NO          |          |           |      |      |        |       |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      11:04:36

PAGE 5  
\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

| *** POINT SOURCE DATA *** |     |        |             |          |           |          |          |         |           |
|---------------------------|-----|--------|-------------|----------|-----------|----------|----------|---------|-----------|
| SOURCE                    |     | NUMBER | EMISSION    | RATE     | BASE      |          | STACK    | STACK   | STACK     |
| DIAMETER                  |     | STACK  | BLDG        | URBAN    | CAP/      | EMIS     | RATE     |         |           |
| ID                        |     | PART.  | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | TEMP.   | EXIT VEL. |
| (METERS)                  |     | EXISTS | SOURCE      | HOR      | SCALAR    | (METERS) | (METERS) | (DEG.K) | (M/SEC)   |
|                           |     | CATS.  |             |          | (METERS)  |          |          |         |           |
|                           |     |        |             |          | VARY BY   |          |          |         |           |
| -----                     |     |        |             |          |           |          |          |         |           |
| TTP29                     |     | 0      | 0.15661E-06 | 658504.1 | 4184200.0 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP30                     |     | 0      | 0.15661E-06 | 658507.0 | 4184199.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP31                     |     | 0      | 0.15661E-06 | 658510.3 | 4184199.7 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP32                     |     | 0      | 0.15661E-06 | 658513.2 | 4184199.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP33                     |     | 0      | 0.15661E-06 | 658516.3 | 4184199.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP34                     |     | 0      | 0.15661E-06 | 658519.4 | 4184200.1 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP35                     |     | 0      | 0.15661E-06 | 658522.5 | 4184200.2 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP36                     |     | 0      | 0.15661E-06 | 658525.4 | 4184200.1 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP37                     |     | 0      | 0.15661E-06 | 658528.8 | 4184200.3 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP38                     |     | 0      | 0.15661E-06 | 658531.7 | 4184200.5 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP39                     |     | 0      | 0.15661E-06 | 658534.8 | 4184200.5 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP40                     |     | 0      | 0.15661E-06 | 658538.0 | 4184200.7 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP41                     |     | 0      | 0.15661E-06 | 658541.0 | 4184200.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP42                     |     | 0      | 0.15661E-06 | 658543.9 | 4184200.7 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP43                     |     | 0      | 0.15661E-06 | 658546.7 | 4184200.7 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP44                     |     | 0      | 0.15661E-06 | 658549.6 | 4184200.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP45                     |     | 0      | 0.15661E-06 | 658552.7 | 4184200.8 | 13.2     | 3.84     | 366.00  | 51.71     |
| 0.10                      | YES | YES    | NO          |          |           |          |          |         |           |
| TTP46                     |     | 0      | 0.15661E-06 | 658555.9 | 4184201.1 | 13.2     | 3.84     | 366.00  | 51.71     |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

PAGE 6

\*\*\* POINT SOURCE DATA \*\*\*

|       |   |             |          |           |      |      |        |       |
|-------|---|-------------|----------|-----------|------|------|--------|-------|
| TTP69 | 0 | 0.15661E-06 | 658625.9 | 4184202.9 | 13.3 | 3.84 | 366.00 | 51.71 |
|-------|---|-------------|----------|-----------|------|------|--------|-------|

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

PAGE 7

\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ   U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

|          |        | NUMBER      | EMISSION RATE |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|-------------|---------------|-----------|----------|----------|----------|-------|
|          |        | URBAN       | EMISSION RATE |           |          |          |          |       |
| SOURCE   | PART.  | (GRAMS/SEC) | X             | Y         | ELEV.    | HEIGHT   | SY       | SZ    |
| SOURCE   | SCALAR | VARY        |               |           |          |          |          |       |
| ID       | CATS.  |             | (METERS)      | (METERS)  | (METERS) | (METERS) | (METERS) |       |
| (METERS) |        | BY          |               |           |          |          |          |       |
| -----    |        |             |               |           |          |          |          |       |
| -----    |        |             |               |           |          |          |          |       |
| L0000001 | 0      | 0.21280E-05 | 658420.1      | 4184210.0 | 13.2     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000002 | 0      | 0.21280E-05 | 658428.7      | 4184210.2 | 13.3     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000003 | 0      | 0.21280E-05 | 658437.3      | 4184210.4 | 13.3     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000004 | 0      | 0.21280E-05 | 658445.9      | 4184210.6 | 13.3     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000005 | 0      | 0.21280E-05 | 658454.5      | 4184210.7 | 13.3     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000006 | 0      | 0.21280E-05 | 658463.0      | 4184210.9 | 13.3     | 3.49     | 4.00     | 3.25  |
| YES      |        | NO          |               |           |          |          |          |       |
| L0000007 | 0      | 0.21280E-05 | 658471.6      | 4184211.1 | 13.3     | 3.49     | 4.00     | 3.25  |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000008 | 0 | 0.21280E-05 | 658480.2 | 4184211.2 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000009 | 0 | 0.21280E-05 | 658488.8 | 4184211.4 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000010 | 0 | 0.21280E-05 | 658497.4 | 4184211.6 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000011 | 0 | 0.21280E-05 | 658506.0 | 4184211.8 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000012 | 0 | 0.21280E-05 | 658514.6 | 4184211.9 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000013 | 0 | 0.21280E-05 | 658523.2 | 4184212.1 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000014 | 0 | 0.21280E-05 | 658531.8 | 4184212.3 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000015 | 0 | 0.21280E-05 | 658540.3 | 4184212.4 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000016 | 0 | 0.21280E-05 | 658548.9 | 4184212.6 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000017 | 0 | 0.21280E-05 | 658557.5 | 4184212.8 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000018 | 0 | 0.21280E-05 | 658566.1 | 4184213.0 | 13.2 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000019 | 0 | 0.21280E-05 | 658574.7 | 4184213.1 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000020 | 0 | 0.21280E-05 | 658583.3 | 4184213.3 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000021 | 0 | 0.21280E-05 | 658591.9 | 4184213.5 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000022 | 0 | 0.21280E-05 | 658600.5 | 4184213.7 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000023 | 0 | 0.21280E-05 | 658609.0 | 4184213.9 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000024 | 0 | 0.21280E-05 | 658617.6 | 4184214.1 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000025 | 0 | 0.21280E-05 | 658626.2 | 4184214.4 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000026 | 0 | 0.21280E-05 | 658634.8 | 4184214.6 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000027 | 0 | 0.21280E-05 | 658643.4 | 4184214.9 | 13.3 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000028 | 0 | 0.21280E-05 | 658652.0 | 4184215.1 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000029 | 0 | 0.21280E-05 | 658660.6 | 4184215.3 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000030 | 0 | 0.21280E-05 | 658669.2 | 4184215.6 | 13.4 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000031 | 0 | 0.21280E-05 | 658677.7 | 4184215.8 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000032 | 0 | 0.21280E-05 | 658686.3 | 4184216.1 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000033 | 0 | 0.21280E-05 | 658694.9 | 4184216.6 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000034 | 0 | 0.21280E-05 | 658703.5 | 4184217.1 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000035 | 0 | 0.21280E-05 | 658712.1 | 4184217.3 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000036 | 0 | 0.21280E-05 | 658720.6 | 4184217.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000037 | 0 | 0.21280E-05 | 658729.2 | 4184218.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000038 | 0 | 0.21280E-05 | 658737.7 | 4184219.8 | 13.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000039 | 0 | 0.21280E-05 | 658746.1 | 4184221.5 | 13.5 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000040 | 0 | 0.21280E-05 | 658754.5 | 4184223.2 | 13.3 | 3.49 | 4.00 | 3.25 |

YES NO  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

11:04:36

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | NUMBER      | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|-------------|-------------|----------|-----------|----------|----------|----------|-------|
| SOURCE   | URBAN       | EMISSION    | RATE     | AIRCRAFT  |          |          |          |       |
| ID       | PART.       | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | SY       | SZ    |
| (METERS) | SCALAR VARY |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |       |
|          | CATS.       | BY          |          |           |          |          |          |       |
| L0000041 | 0           | 0.57900E-06 | 658774.4 | 4184216.3 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000042 | 0           | 0.57900E-06 | 658776.5 | 4184202.5 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000043 | 0           | 0.57900E-06 | 658777.6 | 4184188.5 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000044 | 0           | 0.57900E-06 | 658777.6 | 4184174.5 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000045 | 0           | 0.57900E-06 | 658777.6 | 4184160.5 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000046 | 0           | 0.57900E-06 | 658777.2 | 4184146.6 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000047 | 0           | 0.57900E-06 | 658776.1 | 4184132.6 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000048 | 0           | 0.57900E-06 | 658775.1 | 4184118.6 | 13.1     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000049 | 0           | 0.57900E-06 | 658774.1 | 4184104.7 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000050 | 0           | 0.57900E-06 | 658771.3 | 4184091.0 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000051 | 0           | 0.57900E-06 | 658767.6 | 4184077.5 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000052 | 0           | 0.57900E-06 | 658764.0 | 4184064.0 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000053 | 0           | 0.57900E-06 | 658760.4 | 4184050.4 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000054 | 0           | 0.57900E-06 | 658756.8 | 4184036.9 | 13.0     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000055 | 0           | 0.57900E-06 | 658752.3 | 4184023.7 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000056 | 0           | 0.57900E-06 | 658747.6 | 4184010.5 | 12.8     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000057 | 0           | 0.57900E-06 | 658742.8 | 4183997.3 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000058 | 0           | 0.57900E-06 | 658736.8 | 4183984.7 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000059 | 0           | 0.57900E-06 | 658730.8 | 4183972.0 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000060 | 0           | 0.57900E-06 | 658724.8 | 4183959.4 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000061 | 0           | 0.57900E-06 | 658717.8 | 4183947.3 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000062 | 0           | 0.57900E-06 | 658710.0 | 4183935.7 | 12.9     | 3.49     | 6.51     | 3.25  |
| YES      |             | NO          |          |           |          |          |          |       |
| L0000063 | 0           | 0.57900E-06 | 658702.2 | 4183924.1 | 12.9     | 3.49     | 6.51     | 3.25  |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000064 | 0 | 0.57900E-06 | 658694.4 | 4183912.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000065 | 0 | 0.57900E-06 | 658686.6 | 4183900.8 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000066 | 0 | 0.57900E-06 | 658678.8 | 4183889.1 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000067 | 0 | 0.57900E-06 | 658671.0 | 4183877.5 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000068 | 0 | 0.57900E-06 | 658663.3 | 4183865.9 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000069 | 0 | 0.57900E-06 | 658655.5 | 4183854.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000070 | 0 | 0.57900E-06 | 658647.7 | 4183842.6 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000071 | 0 | 0.57900E-06 | 658639.9 | 4183831.0 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000072 | 0 | 0.57900E-06 | 658632.1 | 4183819.4 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000073 | 0 | 0.57900E-06 | 658624.1 | 4183807.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000074 | 0 | 0.57900E-06 | 658616.0 | 4183796.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000075 | 0 | 0.57900E-06 | 658608.0 | 4183784.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000076 | 0 | 0.57900E-06 | 658600.0 | 4183773.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000077 | 0 | 0.57900E-06 | 658592.0 | 4183762.0 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000078 | 0 | 0.57900E-06 | 658584.0 | 4183750.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000079 | 0 | 0.57900E-06 | 658575.9 | 4183739.0 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000080 | 0 | 0.57900E-06 | 658567.9 | 4183727.6 | 12.5 | 3.49 | 6.51 | 3.25 |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

11:04:36

PAGE 9

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE      |   | NUMBER      | EMISSION    | RATE      | BASE     |      | RELEASE  | INIT.    | INIT.    |
|-------------|---|-------------|-------------|-----------|----------|------|----------|----------|----------|
| SOURCE      |   | URBAN       | EMISSION    | RATE      | AIRCRAFT |      |          |          |          |
| ID          |   | PART.       | (GRAMS/SEC) |           | X        |      | ELEV.    | HEIGHT   | SY       |
| SCALAR VARY |   | CATS.       |             |           | Y        |      | (METERS) | (METERS) | (METERS) |
| (METERS)    |   |             | BY          |           | (METERS) |      | (METERS) | (METERS) | (METERS) |
| -----       |   |             |             |           |          |      |          |          |          |
| L0000081    | 0 | 0.57900E-06 | 658559.7    | 4183716.2 | 12.5     | 3.49 | 6.51     | 3.25     |          |
| YES         |   | NO          |             |           |          |      |          |          |          |
| L0000082    | 0 | 0.57900E-06 | 658551.6    | 4183704.8 | 12.2     | 3.49 | 6.51     | 3.25     |          |
| YES         |   | NO          |             |           |          |      |          |          |          |
| L0000083    | 0 | 0.57900E-06 | 658543.4    | 4183693.5 | 12.2     | 3.49 | 6.51     | 3.25     |          |
| YES         |   | NO          |             |           |          |      |          |          |          |
| L0000084    | 0 | 0.57900E-06 | 658535.2    | 4183682.1 | 12.3     | 3.49 | 6.51     | 3.25     |          |
| YES         |   | NO          |             |           |          |      |          |          |          |
| L0000085    | 0 | 0.57900E-06 | 658527.1    | 4183670.7 | 12.1     | 3.49 | 6.51     | 3.25     |          |
| YES         |   | NO          |             |           |          |      |          |          |          |
| L0000086    | 0 | 0.57900E-06 | 658518.9    | 4183659.3 | 12.1     | 3.49 | 6.51     | 3.25     |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000087 | 0 | 0.57900E-06 | 658510.7 | 4183648.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000088 | 0 | 0.57900E-06 | 658502.6 | 4183636.6 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000089 | 0 | 0.57900E-06 | 658494.4 | 4183625.2 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000090 | 0 | 0.57900E-06 | 658486.3 | 4183613.8 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000091 | 0 | 0.30730E-06 | 658475.8 | 4183597.1 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000092 | 0 | 0.30730E-06 | 658468.0 | 4183585.5 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000093 | 0 | 0.30730E-06 | 658460.1 | 4183573.9 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000094 | 0 | 0.30730E-06 | 658452.3 | 4183562.2 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000095 | 0 | 0.30730E-06 | 658444.5 | 4183550.6 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000096 | 0 | 0.30730E-06 | 658435.6 | 4183539.9 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000097 | 0 | 0.30730E-06 | 658425.9 | 4183529.8 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000098 | 0 | 0.30730E-06 | 658416.2 | 4183519.7 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000099 | 0 | 0.30730E-06 | 658406.4 | 4183509.7 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000100 | 0 | 0.30730E-06 | 658394.9 | 4183501.8 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000101 | 0 | 0.30730E-06 | 658383.1 | 4183494.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000102 | 0 | 0.30730E-06 | 658371.3 | 4183486.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000103 | 0 | 0.30730E-06 | 658359.4 | 4183479.3 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000104 | 0 | 0.30730E-06 | 658347.5 | 4183472.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000105 | 0 | 0.30730E-06 | 658334.4 | 4183467.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000106 | 0 | 0.30730E-06 | 658321.3 | 4183462.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000107 | 0 | 0.30730E-06 | 658308.0 | 4183457.8 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000108 | 0 | 0.30730E-06 | 658294.4 | 4183454.5 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000109 | 0 | 0.30730E-06 | 658280.8 | 4183451.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000110 | 0 | 0.30730E-06 | 658267.1 | 4183449.1 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000111 | 0 | 0.30730E-06 | 658253.1 | 4183448.7 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000112 | 0 | 0.30730E-06 | 658239.1 | 4183448.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000113 | 0 | 0.30730E-06 | 658225.1 | 4183447.8 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000114 | 0 | 0.30730E-06 | 658211.1 | 4183447.4 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000115 | 0 | 0.30730E-06 | 658197.1 | 4183447.0 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000116 | 0 | 0.30730E-06 | 658183.1 | 4183446.6 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000117 | 0 | 0.30730E-06 | 658169.1 | 4183446.2 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000118 | 0 | 0.30730E-06 | 658155.1 | 4183445.8 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000119 | 0 | 0.30730E-06 | 658141.1 | 4183445.4 | 13.1 | 3.49 | 6.51 | 3.25 |

YES NO  
L0000120 0 0.30730E-06 658127.1 4183445.1 13.1 3.49 6.51 3.25  
YES NO  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* \*\*\* 11:04:36

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | NUMBER      | EMISSION    | RATE     | AIRCRAFT  |          | BASE     | RELEASE  | INIT.    | INIT. |
|----------|-------------|-------------|----------|-----------|----------|----------|----------|----------|-------|
| SOURCE   | URBAN       | EMISSION    | RATE     | X         | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
| ID       | PART.       | (GRAMS/SEC) |          |           |          |          |          |          |       |
| (METERS) | SCALAR VARY |             |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |       |
|          | CATS.       | BY          |          |           |          |          |          |          |       |
| L0000121 | 0           | 0.30730E-06 | 658113.1 | 4183444.7 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000122 | 0           | 0.30730E-06 | 658099.1 | 4183444.3 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000123 | 0           | 0.30730E-06 | 658085.1 | 4183443.9 | 13.0     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000124 | 0           | 0.30730E-06 | 658071.1 | 4183443.5 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000125 | 0           | 0.30730E-06 | 658057.1 | 4183443.1 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000126 | 0           | 0.30730E-06 | 658043.1 | 4183442.7 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000127 | 0           | 0.30730E-06 | 658029.1 | 4183442.3 | 12.9     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000128 | 0           | 0.30730E-06 | 658015.2 | 4183442.0 | 12.8     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000129 | 0           | 0.30730E-06 | 658001.2 | 4183441.7 | 12.8     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000130 | 0           | 0.30730E-06 | 657987.2 | 4183442.5 | 12.7     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000131 | 0           | 0.30730E-06 | 657973.2 | 4183443.4 | 12.6     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000132 | 0           | 0.30730E-06 | 657959.2 | 4183444.2 | 12.5     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000133 | 0           | 0.30730E-06 | 657945.3 | 4183445.0 | 12.4     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000134 | 0           | 0.30730E-06 | 657931.3 | 4183445.9 | 12.3     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000135 | 0           | 0.30730E-06 | 657917.4 | 4183447.2 | 12.2     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000136 | 0           | 0.30730E-06 | 657903.8 | 4183450.1 | 12.0     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000137 | 0           | 0.30730E-06 | 657890.9 | 4183455.7 | 11.9     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000138 | 0           | 0.30730E-06 | 657878.1 | 4183461.2 | 11.8     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000139 | 0           | 0.30730E-06 | 657865.3 | 4183466.9 | 11.8     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000140 | 0           | 0.30730E-06 | 657852.6 | 4183472.8 | 11.8     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000141 | 0           | 0.30730E-06 | 657839.9 | 4183478.8 | 11.7     | 3.49     | 6.51     | 3.25     |       |
| YES      |             | NO          |          |           |          |          |          |          |       |
| L0000142 | 0           | 0.30730E-06 | 657827.3 | 4183484.7 | 11.7     | 3.49     | 6.51     | 3.25     |       |





|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000166 | 0 | 0.30730E-06 | 657524.2 | 4183629.8 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000167 | 0 | 0.30730E-06 | 657511.6 | 4183635.9 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000168 | 0 | 0.30730E-06 | 657499.0 | 4183642.1 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000169 | 0 | 0.30730E-06 | 657486.5 | 4183648.2 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000170 | 0 | 0.30730E-06 | 657473.9 | 4183654.4 | 11.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000171 | 0 | 0.30730E-06 | 657461.3 | 4183660.5 | 11.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000172 | 0 | 0.30730E-06 | 657448.7 | 4183666.6 | 11.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000173 | 0 | 0.30730E-06 | 657436.2 | 4183672.8 | 11.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000174 | 0 | 0.30730E-06 | 657423.6 | 4183678.9 | 11.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000175 | 0 | 0.30730E-06 | 657411.0 | 4183685.1 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000176 | 0 | 0.30730E-06 | 657398.4 | 4183691.2 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000177 | 0 | 0.30730E-06 | 657385.8 | 4183697.4 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000178 | 0 | 0.30730E-06 | 657373.3 | 4183703.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000179 | 0 | 0.30730E-06 | 657360.6 | 4183709.4 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000180 | 0 | 0.30730E-06 | 657347.8 | 4183715.1 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000181 | 0 | 0.30730E-06 | 657335.0 | 4183720.9 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000182 | 0 | 0.30730E-06 | 657322.2 | 4183726.6 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000183 | 0 | 0.30730E-06 | 657309.5 | 4183732.5 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000184 | 0 | 0.30730E-06 | 657296.9 | 4183738.6 | 11.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000185 | 0 | 0.30730E-06 | 657283.3 | 4183741.6 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000186 | 0 | 0.30730E-06 | 657269.6 | 4183744.6 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000187 | 0 | 0.30730E-06 | 657255.9 | 4183747.7 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000188 | 0 | 0.30730E-06 | 657242.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000189 | 0 | 0.30730E-06 | 657228.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000190 | 0 | 0.30730E-06 | 657214.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000191 | 0 | 0.30730E-06 | 657200.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000192 | 0 | 0.30730E-06 | 657186.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000193 | 0 | 0.30730E-06 | 657172.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000194 | 0 | 0.30730E-06 | 657158.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000195 | 0 | 0.30730E-06 | 657144.1 | 4183749.3 | 11.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000196 | 0 | 0.30730E-06 | 657130.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000197 | 0 | 0.30730E-06 | 657116.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000198 | 0 | 0.30730E-06 | 657102.1 | 4183749.3 | 11.4 | 3.49 | 6.51 | 3.25 |

YES NO  
L0000199 0 0.30730E-06 657089.9 4183747.6 11.4 3.49 6.51 3.25  
YES NO  
L0000200 0 0.30730E-06 657090.3 4183733.6 11.4 3.49 6.51 3.25  
YES NO  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 11:04:36

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |
|----------|--------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE   | URBAN  | EMISSION    | RATE     | AIRCRAFT  |          |          |          |          |
| ID       | PART.  | (GRAMS/SEC) |          | X         | ELEV.    | HEIGHT   | SY       | SZ       |
| (METERS) | SCALAR | VARY        |          |           |          |          |          |          |
|          | CATS.  |             |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          |        | BY          |          |           |          |          |          |          |
| L0000201 | 0      | 0.30730E-06 | 657090.8 | 4183719.6 | 11.3     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000202 | 0      | 0.30730E-06 | 657091.3 | 4183705.6 | 11.3     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000203 | 0      | 0.30730E-06 | 657091.8 | 4183691.6 | 11.2     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000204 | 0      | 0.30730E-06 | 657092.3 | 4183677.6 | 11.2     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000205 | 0      | 0.30730E-06 | 657092.8 | 4183663.6 | 11.1     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000206 | 0      | 0.30730E-06 | 657093.3 | 4183649.6 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000207 | 0      | 0.30730E-06 | 657093.7 | 4183635.6 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000208 | 0      | 0.30730E-06 | 657094.2 | 4183621.6 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000209 | 0      | 0.30730E-06 | 657094.7 | 4183607.6 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000210 | 0      | 0.30730E-06 | 657095.2 | 4183593.6 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000211 | 0      | 0.30730E-06 | 657095.7 | 4183579.7 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000212 | 0      | 0.30730E-06 | 657096.2 | 4183565.7 | 11.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000213 | 0      | 0.30730E-06 | 657096.6 | 4183551.7 | 11.1     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000214 | 0      | 0.30730E-06 | 657097.1 | 4183537.7 | 11.2     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000215 | 0      | 0.30730E-06 | 657097.6 | 4183523.7 | 11.4     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000216 | 0      | 0.30730E-06 | 657098.1 | 4183509.7 | 11.6     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000217 | 0      | 0.30730E-06 | 657098.6 | 4183495.7 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000218 | 0      | 0.30730E-06 | 657099.1 | 4183481.7 | 12.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000219 | 0      | 0.30730E-06 | 657099.6 | 4183467.7 | 12.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000220 | 0      | 0.30730E-06 | 657100.0 | 4183453.7 | 12.0     | 3.49     | 6.51     | 3.25     |
| YES      |        | NO          |          |           |          |          |          |          |
| L0000221 | 0      | 0.30730E-06 | 657100.5 | 4183439.7 | 12.0     | 3.49     | 6.51     | 3.25     |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000222 | 0 | 0.30730E-06 | 657101.0 | 4183425.7 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000223 | 0 | 0.30730E-06 | 657101.5 | 4183411.8 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000224 | 0 | 0.30730E-06 | 657102.0 | 4183397.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000225 | 0 | 0.30730E-06 | 657102.5 | 4183383.8 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000226 | 0 | 0.30730E-06 | 657102.9 | 4183369.8 | 13.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000227 | 0 | 0.30730E-06 | 657103.4 | 4183355.8 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000228 | 0 | 0.30730E-06 | 657103.9 | 4183341.8 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000229 | 0 | 0.30730E-06 | 657104.4 | 4183327.8 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000230 | 0 | 0.30730E-06 | 657104.9 | 4183313.8 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000231 | 0 | 0.30730E-06 | 657105.4 | 4183299.8 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000232 | 0 | 0.30730E-06 | 657105.8 | 4183285.8 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000233 | 0 | 0.30730E-06 | 657106.3 | 4183271.8 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000234 | 0 | 0.30730E-06 | 657106.8 | 4183257.8 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000235 | 0 | 0.30730E-06 | 657107.3 | 4183243.9 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000236 | 0 | 0.30730E-06 | 657107.8 | 4183229.9 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000237 | 0 | 0.30730E-06 | 657108.3 | 4183215.9 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000238 | 0 | 0.30730E-06 | 657108.8 | 4183201.9 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000239 | 0 | 0.30730E-06 | 657109.2 | 4183187.9 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000240 | 0 | 0.30730E-06 | 657109.7 | 4183173.9 | 13.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      11:04:36

PAGE 13  
\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

| *** VOLUME SOURCE DATA *** |   |             |             |           |          |          |          |          |
|----------------------------|---|-------------|-------------|-----------|----------|----------|----------|----------|
| SOURCE                     |   | NUMBER      | EMISSION    | RATE      | BASE     |          | RELEASE  | INIT.    |
| SOURCE                     |   | URBAN       | EMISSION    | RATE      | AIRCRAFT |          |          | INIT.    |
| ID                         |   | PART.       | (GRAMS/SEC) |           | X        | Y        | ELEV.    | HEIGHT   |
| SCALAR VARY                |   | CATS.       |             |           | (METERS) | (METERS) | (METERS) | (METERS) |
| (METERS)                   |   |             | BY          |           |          |          |          |          |
| -----                      |   |             |             |           |          |          |          |          |
| L0000241                   | 0 | 0.30730E-06 | 657110.2    | 4183159.9 | 13.4     | 3.49     | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |          |          |          |          |
| L0000242                   | 0 | 0.30730E-06 | 657110.7    | 4183145.9 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |          |          |          |          |
| L0000243                   | 0 | 0.30730E-06 | 657111.2    | 4183131.9 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES                        |   | NO          |             |           |          |          |          |          |
| L0000244                   | 0 | 0.30730E-06 | 657111.7    | 4183117.9 | 12.4     | 3.49     | 6.51     | 3.25     |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000245 | 0 | 0.30730E-06 | 657112.1 | 4183103.9 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000246 | 0 | 0.30730E-06 | 657112.6 | 4183089.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000247 | 0 | 0.30730E-06 | 657113.1 | 4183076.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000248 | 0 | 0.30730E-06 | 657113.6 | 4183062.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000249 | 0 | 0.74930E-07 | 658467.9 | 4183601.9 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000250 | 0 | 0.74930E-07 | 658456.6 | 4183610.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000251 | 0 | 0.74930E-07 | 658445.3 | 4183618.4 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000252 | 0 | 0.74930E-07 | 658434.0 | 4183626.6 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000253 | 0 | 0.74930E-07 | 658422.6 | 4183634.9 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000254 | 0 | 0.74930E-07 | 658411.3 | 4183643.1 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000255 | 0 | 0.74930E-07 | 658400.0 | 4183651.4 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000256 | 0 | 0.74930E-07 | 658388.7 | 4183659.6 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000257 | 0 | 0.74930E-07 | 658377.4 | 4183667.9 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000258 | 0 | 0.74930E-07 | 658366.1 | 4183676.1 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000259 | 0 | 0.74930E-07 | 658354.7 | 4183684.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000260 | 0 | 0.74930E-07 | 658343.4 | 4183692.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000261 | 0 | 0.74930E-07 | 658332.1 | 4183700.8 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000262 | 0 | 0.74930E-07 | 658320.8 | 4183709.1 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000263 | 0 | 0.74930E-07 | 658309.5 | 4183717.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000264 | 0 | 0.74930E-07 | 658298.2 | 4183725.6 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000265 | 0 | 0.74930E-07 | 658286.9 | 4183733.8 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000266 | 0 | 0.74930E-07 | 658275.5 | 4183742.0 | 12.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000267 | 0 | 0.74930E-07 | 658264.2 | 4183750.3 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000268 | 0 | 0.74930E-07 | 658252.9 | 4183758.5 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000269 | 0 | 0.74930E-07 | 658241.6 | 4183766.8 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000270 | 0 | 0.74930E-07 | 658230.3 | 4183775.0 | 12.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000271 | 0 | 0.74930E-07 | 658219.0 | 4183783.3 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000272 | 0 | 0.74930E-07 | 658207.6 | 4183791.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000273 | 0 | 0.74930E-07 | 658196.3 | 4183799.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000274 | 0 | 0.74930E-07 | 658185.0 | 4183808.0 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000275 | 0 | 0.74930E-07 | 658173.7 | 4183816.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000276 | 0 | 0.74930E-07 | 658162.4 | 4183824.5 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000277 | 0 | 0.74930E-07 | 658151.1 | 4183832.7 | 11.7 | 3.49 | 6.51 | 3.25 |

YES NO  
L0000278 0 0.74930E-07 658139.8 4183841.0 11.7 3.49 6.51 3.25  
YES NO  
L0000279 0 0.74930E-07 658128.5 4183849.2 11.6 3.49 6.51 3.25  
YES NO  
L0000280 0 0.74930E-07 658117.1 4183857.5 11.6 3.49 6.51 3.25  
YES NO  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* \*\*\* 11:04:36

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR VARY<br>CATS. | EMISSION<br>EMISSION<br>(GRAMS/SEC)<br>BY | RATE<br>AIRCRAFT |           | BASE<br>ELEV.<br>(METERS) | RELEASE<br>HEIGHT<br>(METERS) | INIT.<br>SY<br>(METERS) | INIT.<br>SZ |
|------------------------------------|--------------------------------------------------|-------------------------------------------|------------------|-----------|---------------------------|-------------------------------|-------------------------|-------------|
|                                    |                                                  |                                           | X                | Y         |                           |                               |                         |             |
|                                    |                                                  |                                           | (METERS)         | (METERS)  |                           |                               |                         |             |
|                                    |                                                  |                                           |                  |           |                           |                               |                         |             |
| L0000281                           | 0                                                | 0.74930E-07                               | 658105.8         | 4183865.7 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000282                           | 0                                                | 0.74930E-07                               | 658094.5         | 4183874.0 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000283                           | 0                                                | 0.74930E-07                               | 658083.2         | 4183882.2 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000284                           | 0                                                | 0.74930E-07                               | 658071.9         | 4183890.5 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000285                           | 0                                                | 0.74930E-07                               | 658060.6         | 4183898.7 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000286                           | 0                                                | 0.74930E-07                               | 658049.2         | 4183906.9 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000287                           | 0                                                | 0.74930E-07                               | 658037.9         | 4183915.1 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000288                           | 0                                                | 0.74930E-07                               | 658026.5         | 4183923.3 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000289                           | 0                                                | 0.74930E-07                               | 658015.1         | 4183931.4 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000290                           | 0                                                | 0.74930E-07                               | 658003.8         | 4183939.6 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000291                           | 0                                                | 0.74930E-07                               | 657992.4         | 4183947.8 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000292                           | 0                                                | 0.74930E-07                               | 657981.0         | 4183956.0 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000293                           | 0                                                | 0.74930E-07                               | 657969.7         | 4183964.1 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000294                           | 0                                                | 0.74930E-07                               | 657958.3         | 4183972.3 | 11.4                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000295                           | 0                                                | 0.74930E-07                               | 657947.8         | 4183981.6 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000296                           | 0                                                | 0.74930E-07                               | 657937.4         | 4183990.9 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000297                           | 0                                                | 0.74930E-07                               | 657926.9         | 4184000.2 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000298                           | 0                                                | 0.74930E-07                               | 657916.8         | 4184009.9 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000299                           | 0                                                | 0.74930E-07                               | 657907.8         | 4184020.6 | 11.5                      | 3.49                          | 6.51                    | 3.25        |
| YES                                |                                                  | NO                                        |                  |           |                           |                               |                         |             |
| L0000300                           | 0                                                | 0.74930E-07                               | 657898.8         | 4184031.3 | 11.5                      | 3.49                          | 6.51                    | 3.25        |

```

PR *** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

```
*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ  U*
```

| SOURCE   |        | NUMBER | EMISSION    | RATE     | BASE     | RELEASE  | INIT.    | INIT.    |    |
|----------|--------|--------|-------------|----------|----------|----------|----------|----------|----|
| SOURCE   |        | URBAN  | EMISSION    | RATE     | AIRCRAFT |          |          |          |    |
| ID       | SCALAR | PART.  | (GRAMS/SEC) | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ |
| (METERS) |        | CATS.  |             | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |    |
|          |        |        | BY          |          |          |          |          |          |    |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000321 | 0 | 0.74930E-07 | 657668.0 | 4184211.6 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000322 | 0 | 0.74930E-07 | 657656.5 | 4184219.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000323 | 0 | 0.74930E-07 | 657645.0 | 4184227.7 | 11.8 | 3.49 | 6.51 | 3.25 |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000324 | 0 | 0.74930E-07 | 657633.6 | 4184235.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000325 | 0 | 0.74930E-07 | 657622.1 | 4184243.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000326 | 0 | 0.74930E-07 | 657610.6 | 4184251.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000327 | 0 | 0.74930E-07 | 657599.2 | 4184259.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000328 | 0 | 0.74930E-07 | 657587.7 | 4184267.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000329 | 0 | 0.74930E-07 | 657576.3 | 4184276.0 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000330 | 0 | 0.74930E-07 | 657564.9 | 4184284.1 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000331 | 0 | 0.74930E-07 | 657553.5 | 4184292.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000332 | 0 | 0.74930E-07 | 657542.1 | 4184300.3 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000333 | 0 | 0.74930E-07 | 657530.6 | 4184308.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000334 | 0 | 0.74930E-07 | 657519.2 | 4184316.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000335 | 0 | 0.74930E-07 | 657507.8 | 4184324.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000336 | 0 | 0.74930E-07 | 657496.4 | 4184332.7 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000337 | 0 | 0.74930E-07 | 657485.0 | 4184340.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000338 | 0 | 0.74930E-07 | 657473.6 | 4184348.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000339 | 0 | 0.74930E-07 | 657462.2 | 4184357.0 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000340 | 0 | 0.74930E-07 | 657450.7 | 4184365.1 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000341 | 0 | 0.74930E-07 | 657439.3 | 4184373.2 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000342 | 0 | 0.74930E-07 | 657427.9 | 4184381.3 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000343 | 0 | 0.74930E-07 | 657416.5 | 4184389.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000344 | 0 | 0.74930E-07 | 657405.1 | 4184397.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000345 | 0 | 0.74930E-07 | 657393.7 | 4184405.6 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000346 | 0 | 0.74930E-07 | 657382.2 | 4184413.7 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000347 | 0 | 0.74930E-07 | 657370.8 | 4184421.9 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000348 | 0 | 0.74930E-07 | 657359.4 | 4184430.0 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000349 | 0 | 0.74930E-07 | 657348.0 | 4184438.1 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000350 | 0 | 0.74930E-07 | 657336.6 | 4184446.2 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000351 | 0 | 0.74930E-07 | 657325.2 | 4184454.3 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000352 | 0 | 0.74930E-07 | 657313.8 | 4184462.4 | 11.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000353 | 0 | 0.74930E-07 | 657302.5 | 4184470.7 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000354 | 0 | 0.74930E-07 | 657291.2 | 4184478.9 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000355 | 0 | 0.74930E-07 | 657279.9 | 4184487.2 | 11.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000356 | 0 | 0.74930E-07 | 657268.6 | 4184495.5 | 11.5 | 3.49 | 6.51 | 3.25 |





```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***
11:04:36

```

\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ   U\*

|          |             |             |               |          |          |          |          |       |
|----------|-------------|-------------|---------------|----------|----------|----------|----------|-------|
|          |             | NUMBER      | EMISSION RATE |          | BASE     | RELEASE  | INIT.    | INIT. |
|          |             | URBAN       | EMISSION RATE |          | AIRCRAFT |          |          |       |
| SOURCE   | PART.       | (GRAMS/SEC) | X             | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
| SOURCE   | SCALAR VARY |             |               |          |          |          |          |       |
| ID       | CATS.       |             | (METERS)      | (METERS) | (METERS) | (METERS) | (METERS) |       |
| (METERS) |             | BY          |               |          |          |          |          |       |
| -----    |             |             |               |          |          |          |          |       |
|          |             |             |               |          |          |          |          |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000401 | 0 | 0.19370E-06 | 658779.5 | 4183377.2 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000402 | 0 | 0.19370E-06 | 658790.1 | 4183368.1 | 13.6 | 3.49 | 6.51 | 3.25 |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000403 | 0 | 0.19370E-06 | 658800.7 | 4183359.0 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000404 | 0 | 0.19370E-06 | 658811.3 | 4183349.9 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000405 | 0 | 0.19370E-06 | 658822.3 | 4183341.1 | 13.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000406 | 0 | 0.19370E-06 | 658833.3 | 4183332.6 | 13.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000407 | 0 | 0.19370E-06 | 658844.4 | 4183324.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000408 | 0 | 0.19370E-06 | 658855.5 | 4183315.4 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000409 | 0 | 0.19370E-06 | 658866.6 | 4183306.9 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000410 | 0 | 0.19370E-06 | 658877.6 | 4183298.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000411 | 0 | 0.19370E-06 | 658888.7 | 4183289.7 | 14.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000412 | 0 | 0.19370E-06 | 658899.8 | 4183281.2 | 15.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000413 | 0 | 0.19370E-06 | 658910.9 | 4183272.6 | 15.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000414 | 0 | 0.19370E-06 | 658922.0 | 4183264.1 | 15.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000415 | 0 | 0.19370E-06 | 658933.0 | 4183255.5 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000416 | 0 | 0.19370E-06 | 658944.1 | 4183246.9 | 15.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000417 | 0 | 0.19370E-06 | 658955.2 | 4183238.4 | 14.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000418 | 0 | 0.19370E-06 | 658966.3 | 4183229.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000419 | 0 | 0.19370E-06 | 658977.6 | 4183221.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000420 | 0 | 0.19370E-06 | 658989.0 | 4183213.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000421 | 0 | 0.19370E-06 | 659000.5 | 4183205.5 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000422 | 0 | 0.19370E-06 | 659012.0 | 4183197.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000423 | 0 | 0.19370E-06 | 659023.4 | 4183189.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000424 | 0 | 0.19370E-06 | 659034.9 | 4183181.4 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000425 | 0 | 0.19370E-06 | 659046.4 | 4183173.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000426 | 0 | 0.19370E-06 | 659057.8 | 4183165.3 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000427 | 0 | 0.19370E-06 | 659069.3 | 4183157.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000428 | 0 | 0.19370E-06 | 659080.7 | 4183149.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000429 | 0 | 0.19370E-06 | 659092.2 | 4183141.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000430 | 0 | 0.19370E-06 | 659103.7 | 4183133.2 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000431 | 0 | 0.19370E-06 | 659115.1 | 4183125.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000432 | 0 | 0.19370E-06 | 659126.6 | 4183117.1 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000433 | 0 | 0.19370E-06 | 659138.1 | 4183109.1 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000434 | 0 | 0.19370E-06 | 659149.5 | 4183101.0 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000435 | 0 | 0.19370E-06 | 659161.0 | 4183093.0 | 14.3 | 3.49 | 6.51 | 3.25 |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000436 | 0 | 0.19370E-06 | 659172.5 | 4183085.0 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000437 | 0 | 0.19370E-06 | 659183.9 | 4183076.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000438 | 0 | 0.19370E-06 | 659195.4 | 4183068.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000439 | 0 | 0.19370E-06 | 659206.9 | 4183060.9 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000440 | 0 | 0.19370E-06 | 659218.3 | 4183052.8 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      11:04:36

PAGE 18  
\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   |   | NUMBER      | EMISSION    | RATE      | BASE     |          | RELEASE  | INIT.    | INIT.    |
|----------|---|-------------|-------------|-----------|----------|----------|----------|----------|----------|
| SOURCE   |   | URBAN       | EMISSION    | RATE      | AIRCRAFT |          |          |          |          |
| ID       |   | PART.       | (GRAMS/SEC) |           | X        | Y        | ELEV.    | HEIGHT   | SY       |
| (METERS) |   | SCALAR      | VARY        |           | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
|          |   | CATS.       | BY          |           |          |          |          |          |          |
| -----    |   |             |             |           |          |          |          |          |          |
| L0000441 | 0 | 0.19370E-06 | 659229.8    | 4183044.8 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000442 | 0 | 0.19370E-06 | 659241.2    | 4183036.7 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000443 | 0 | 0.19370E-06 | 659252.6    | 4183028.6 | 14.4     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000444 | 0 | 0.19370E-06 | 659264.0    | 4183020.4 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000445 | 0 | 0.19370E-06 | 659275.4    | 4183012.3 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000446 | 0 | 0.19370E-06 | 659286.8    | 4183004.2 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000447 | 0 | 0.19370E-06 | 659298.2    | 4182996.1 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000448 | 0 | 0.19370E-06 | 659309.6    | 4182987.9 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000449 | 0 | 0.19370E-06 | 659321.0    | 4182979.8 | 14.5     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000450 | 0 | 0.19370E-06 | 659332.4    | 4182971.7 | 14.6     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000451 | 0 | 0.19370E-06 | 659343.8    | 4182963.5 | 14.7     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000452 | 0 | 0.19370E-06 | 659355.2    | 4182955.4 | 14.7     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000453 | 0 | 0.19370E-06 | 659366.6    | 4182947.3 | 14.8     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000454 | 0 | 0.19370E-06 | 659378.0    | 4182939.2 | 14.9     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000455 | 0 | 0.19370E-06 | 659389.4    | 4182931.0 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000456 | 0 | 0.19370E-06 | 659400.8    | 4182922.9 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000457 | 0 | 0.19370E-06 | 659412.2    | 4182914.8 | 15.1     | 3.49     | 6.51     | 3.25     |          |
| YES      |   | NO          |             |           |          |          |          |          |          |
| L0000458 | 0 | 0.19370E-06 | 659423.6    | 4182906.7 | 15.2     | 3.49     | 6.51     | 3.25     |          |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000459 | 0 | 0.19370E-06 | 659435.0 | 4182898.5 | 15.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000460 | 0 | 0.19370E-06 | 659446.4 | 4182890.4 | 15.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000461 | 0 | 0.19370E-06 | 659457.8 | 4182882.3 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000462 | 0 | 0.19370E-06 | 659469.2 | 4182874.1 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000463 | 0 | 0.19370E-06 | 659480.6 | 4182866.0 | 15.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000464 | 0 | 0.19370E-06 | 659492.0 | 4182857.9 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000465 | 0 | 0.19370E-06 | 659503.4 | 4182849.8 | 15.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000466 | 0 | 0.19370E-06 | 659514.8 | 4182841.6 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000467 | 0 | 0.19370E-06 | 659526.2 | 4182833.5 | 15.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000468 | 0 | 0.19370E-06 | 659537.6 | 4182825.4 | 14.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000469 | 0 | 0.19370E-06 | 659549.0 | 4182817.3 | 14.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000470 | 0 | 0.19370E-06 | 659560.4 | 4182809.1 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000471 | 0 | 0.19370E-06 | 659571.8 | 4182801.0 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000472 | 0 | 0.19370E-06 | 659583.2 | 4182792.9 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000473 | 0 | 0.19370E-06 | 659594.6 | 4182784.7 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000474 | 0 | 0.19370E-06 | 659606.0 | 4182776.6 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000475 | 0 | 0.19370E-06 | 659617.4 | 4182768.5 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000476 | 0 | 0.19370E-06 | 659628.8 | 4182760.4 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000477 | 0 | 0.19370E-06 | 659640.2 | 4182752.2 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000478 | 0 | 0.19370E-06 | 659651.6 | 4182744.1 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000479 | 0 | 0.19370E-06 | 659663.0 | 4182736.0 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000480 | 0 | 0.19370E-06 | 659674.4 | 4182727.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 11:04:36

PAGE 19

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

|          |             | NUMBER      | EMISSION RATE |          |          | BASE     | RELEASE  | INIT. | INIT. |
|----------|-------------|-------------|---------------|----------|----------|----------|----------|-------|-------|
|          |             | URBAN       | EMISSION RATE | AIRCRAFT |          |          |          |       |       |
| SOURCE   | PART.       | (GRAMS/SEC) | X             | Y        | ELEV.    | HEIGHT   | SY       | SZ    |       |
| SOURCE   | SCALAR VARY |             |               |          |          |          |          |       |       |
| ID       | CATS.       |             | (METERS)      | (METERS) | (METERS) | (METERS) | (METERS) |       |       |
| (METERS) |             | BY          |               |          |          |          |          |       |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000481 | 0 | 0.19370E-06 | 659685.8 | 4182719.7 | 14.1 | 3.49 | 6.51 | 3.25 |
|----------|---|-------------|----------|-----------|------|------|------|------|

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000482 | 0 | 0.19370E-06 | 659697.2 | 4182711.6 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000483 | 0 | 0.19370E-06 | 659708.6 | 4182703.5 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000484 | 0 | 0.19370E-06 | 659720.0 | 4182695.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000485 | 0 | 0.19370E-06 | 659731.4 | 4182687.2 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000486 | 0 | 0.19370E-06 | 659742.8 | 4182679.1 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000487 | 0 | 0.19370E-06 | 659754.2 | 4182671.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000488 | 0 | 0.19370E-06 | 659765.6 | 4182662.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000489 | 0 | 0.19370E-06 | 659777.0 | 4182654.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000490 | 0 | 0.19370E-06 | 659788.4 | 4182646.6 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000491 | 0 | 0.19370E-06 | 659799.8 | 4182638.4 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000492 | 0 | 0.19370E-06 | 659811.2 | 4182630.3 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000493 | 0 | 0.19370E-06 | 659822.6 | 4182622.2 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000494 | 0 | 0.19370E-06 | 659834.0 | 4182614.1 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000495 | 0 | 0.19370E-06 | 659845.4 | 4182605.9 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000496 | 0 | 0.19370E-06 | 659856.8 | 4182597.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000497 | 0 | 0.19370E-06 | 659868.2 | 4182589.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000498 | 0 | 0.19370E-06 | 659879.6 | 4182581.5 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000499 | 0 | 0.19370E-06 | 659891.0 | 4182573.4 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000500 | 0 | 0.19370E-06 | 659902.4 | 4182565.3 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000501 | 0 | 0.19370E-06 | 659913.8 | 4182557.2 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000502 | 0 | 0.19370E-06 | 659925.2 | 4182549.0 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000503 | 0 | 0.19370E-06 | 659936.6 | 4182540.9 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000504 | 0 | 0.19370E-06 | 659948.0 | 4182532.8 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000505 | 0 | 0.19370E-06 | 659959.4 | 4182524.7 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000506 | 0 | 0.19370E-06 | 659970.8 | 4182516.5 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000507 | 0 | 0.19370E-06 | 659982.2 | 4182508.4 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000508 | 0 | 0.19370E-06 | 659993.6 | 4182500.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000509 | 0 | 0.19370E-06 | 660005.0 | 4182492.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000510 | 0 | 0.19370E-06 | 660016.4 | 4182484.0 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000511 | 0 | 0.19370E-06 | 660027.8 | 4182475.9 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000512 | 0 | 0.19370E-06 | 660039.2 | 4182467.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000513 | 0 | 0.19370E-06 | 660050.6 | 4182459.6 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000514 | 0 | 0.19370E-06 | 660062.0 | 4182451.5 | 14.1 | 3.49 | 6.51 | 3.25 |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

```
*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

|          |             |               |          |          |          |          |          |       |
|----------|-------------|---------------|----------|----------|----------|----------|----------|-------|
|          | NUMBER      | EMISSION RATE |          |          | BASE     | RELEASE  | INIT.    | INIT. |
|          | URBAN       | EMISSION RATE | AIRCRAFT |          |          |          |          |       |
| SOURCE   | PART.       | (GRAMS/SEC)   | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
| SOURCE   | SCALAR VARY |               |          |          |          |          |          |       |
| ID       | CATS.       |               | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |
| (METERS) |             | BY            |          |          |          |          |          |       |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000521 | 0 | 0.19370E-06 | 660141.8 | 4182394.6 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000522 | 0 | 0.19370E-06 | 660153.1 | 4182386.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000523 | 0 | 0.19370E-06 | 660164.5 | 4182378.4 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000524 | 0 | 0.19370E-06 | 660175.9 | 4182370.2 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000525 | 0 | 0.19370E-06 | 660187.3 | 4182362.1 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000526 | 0 | 0.19370E-06 | 660198.7 | 4182354.0 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000527 | 0 | 0.19370E-06 | 660210.1 | 4182345.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000528 | 0 | 0.19370E-06 | 660221.5 | 4182337.7 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000529 | 0 | 0.19370E-06 | 660232.9 | 4182329.6 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000530 | 0 | 0.19370E-06 | 660244.3 | 4182321.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000531 | 0 | 0.19370E-06 | 660255.7 | 4182313.3 | 14.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000532 | 0 | 0.19370E-06 | 660267.1 | 4182305.2 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000533 | 0 | 0.19370E-06 | 660278.5 | 4182297.1 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000534 | 0 | 0.19370E-06 | 660289.9 | 4182289.0 | 14.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000535 | 0 | 0.19370E-06 | 660301.3 | 4182280.8 | 14.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000536 | 0 | 0.19370E-06 | 660312.7 | 4182272.7 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000537 | 0 | 0.19370E-06 | 660324.1 | 4182264.6 | 14.4 | 3.49 | 6.51 | 3.25 |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000538 | 0 | 0.19370E-06 | 660335.5 | 4182256.4 | 15.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000539 | 0 | 0.19370E-06 | 660346.9 | 4182248.3 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000540 | 0 | 0.19370E-06 | 660349.6 | 4182256.6 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000541 | 0 | 0.19370E-06 | 660349.3 | 4182270.6 | 15.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000542 | 0 | 0.19370E-06 | 660348.9 | 4182284.6 | 15.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000543 | 0 | 0.19370E-06 | 660348.6 | 4182298.6 | 16.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000544 | 0 | 0.19370E-06 | 660348.2 | 4182312.6 | 16.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000545 | 0 | 0.19370E-06 | 660347.9 | 4182326.6 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000546 | 0 | 0.19370E-06 | 660347.6 | 4182340.6 | 15.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000547 | 0 | 0.19370E-06 | 660347.2 | 4182354.6 | 15.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000548 | 0 | 0.19370E-06 | 660346.9 | 4182368.6 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000549 | 0 | 0.19370E-06 | 660346.5 | 4182382.6 | 15.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000550 | 0 | 0.19370E-06 | 660346.2 | 4182396.6 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000551 | 0 | 0.19370E-06 | 660345.9 | 4182410.6 | 16.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000552 | 0 | 0.19370E-06 | 660345.5 | 4182424.6 | 16.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000553 | 0 | 0.19370E-06 | 660345.2 | 4182438.6 | 16.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000554 | 0 | 0.19370E-06 | 660344.8 | 4182452.6 | 16.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000555 | 0 | 0.19370E-06 | 660344.5 | 4182466.6 | 16.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000556 | 0 | 0.19370E-06 | 660344.2 | 4182480.6 | 15.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000557 | 0 | 0.19370E-06 | 660343.8 | 4182494.6 | 15.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000558 | 0 | 0.19370E-06 | 660343.5 | 4182508.6 | 15.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000559 | 0 | 0.19370E-06 | 660343.1 | 4182522.6 | 15.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000560 | 0 | 0.19370E-06 | 660342.8 | 4182536.6 | 14.9 | 3.49 | 6.51 | 3.25 |

\*\*\* 11:04:36

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ   U\*

| NUMBER   |        | EMISSION RATE |  | BASE     |          | RELEASE  |          | INIT.    |          | INIT. |  |
|----------|--------|---------------|--|----------|----------|----------|----------|----------|----------|-------|--|
| URBAN    |        | EMISSION RATE |  | AIRCRAFT |          |          |          |          |          |       |  |
| SOURCE   | PART.  | (GRAMS/SEC)   |  | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ       |       |  |
| SOURCE   | SCALAR | VARY          |  |          |          |          |          |          |          |       |  |
| ID       | CATS.  |               |  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |  |
| (METERS) |        | BY            |  |          |          |          |          |          |          |       |  |



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000561 | 0 | 0.19370E-06 | 660342.5 | 4182550.6 | 14.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000562 | 0 | 0.19370E-06 | 660342.1 | 4182564.6 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000563 | 0 | 0.19370E-06 | 660341.8 | 4182578.6 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000564 | 0 | 0.19370E-06 | 660341.4 | 4182592.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000565 | 0 | 0.19370E-06 | 660341.1 | 4182606.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000566 | 0 | 0.19370E-06 | 660340.8 | 4182620.5 | 14.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000567 | 0 | 0.19370E-06 | 660340.4 | 4182634.5 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000568 | 0 | 0.19370E-06 | 660340.1 | 4182648.5 | 14.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000569 | 0 | 0.19370E-06 | 660339.7 | 4182662.5 | 14.6 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000570 | 0 | 0.23450E-06 | 658771.8 | 4184232.5 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000571 | 0 | 0.23450E-06 | 658770.3 | 4184246.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000572 | 0 | 0.23450E-06 | 658768.7 | 4184260.3 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000573 | 0 | 0.23450E-06 | 658765.0 | 4184273.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000574 | 0 | 0.23450E-06 | 658761.4 | 4184287.4 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000575 | 0 | 0.23450E-06 | 658757.7 | 4184300.9 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000576 | 0 | 0.23450E-06 | 658754.1 | 4184314.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000577 | 0 | 0.23450E-06 | 658748.7 | 4184327.3 | 13.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000578 | 0 | 0.23450E-06 | 658743.0 | 4184340.1 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000579 | 0 | 0.23450E-06 | 658737.4 | 4184352.9 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000580 | 0 | 0.23450E-06 | 658731.7 | 4184365.7 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000581 | 0 | 0.23450E-06 | 658726.0 | 4184378.5 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000582 | 0 | 0.23450E-06 | 658720.4 | 4184391.3 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000583 | 0 | 0.23450E-06 | 658714.6 | 4184404.0 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000584 | 0 | 0.23450E-06 | 658708.4 | 4184416.6 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000585 | 0 | 0.23450E-06 | 658702.2 | 4184429.2 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000586 | 0 | 0.23450E-06 | 658696.1 | 4184441.7 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000587 | 0 | 0.23450E-06 | 658689.9 | 4184454.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000588 | 0 | 0.23450E-06 | 658685.6 | 4184467.6 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000589 | 0 | 0.23450E-06 | 658681.4 | 4184481.0 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000590 | 0 | 0.23450E-06 | 658677.2 | 4184494.4 | 12.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000591 | 0 | 0.23450E-06 | 658673.1 | 4184507.7 | 12.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000592 | 0 | 0.23450E-06 | 658669.7 | 4184521.3 | 12.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000593 | 0 | 0.23450E-06 | 658666.8 | 4184535.0 | 12.6 | 3.49 | 6.51 | 3.25 |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000594 | 0 | 0.23450E-06 | 658663.8 | 4184548.7 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000595 | 0 | 0.23450E-06 | 658660.8 | 4184562.3 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000596 | 0 | 0.23450E-06 | 658659.3 | 4184576.3 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000597 | 0 | 0.23450E-06 | 658658.0 | 4184590.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000598 | 0 | 0.23450E-06 | 658657.1 | 4184604.2 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000599 | 0 | 0.23450E-06 | 658656.2 | 4184618.1 | 12.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000600 | 0 | 0.23450E-06 | 658655.4 | 4184632.1 | 12.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 11:04:36

PAGE 22

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   |   | NUMBER      | EMISSION    | RATE      | BASE     |      | RELEASE  | INIT.    | INIT.    |    |
|----------|---|-------------|-------------|-----------|----------|------|----------|----------|----------|----|
| SOURCE   |   | URBAN       | EMISSION    | RATE      | AIRCRAFT |      |          |          |          |    |
| ID       |   | PART.       | (GRAMS/SEC) |           | X        | Y    | ELEV.    | HEIGHT   | SY       | SZ |
| (METERS) |   | SCALAR      | VARY        |           | (METERS) |      | (METERS) | (METERS) | (METERS) |    |
|          |   | CATS.       | BY          |           |          |      |          |          |          |    |
| -----    |   |             |             |           |          |      |          |          |          |    |
| L0000601 | 0 | 0.23450E-06 | 658654.5    | 4184646.1 | 12.4     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000602 | 0 | 0.23450E-06 | 658653.6    | 4184660.1 | 12.4     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000603 | 0 | 0.23450E-06 | 658652.8    | 4184674.0 | 12.3     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000604 | 0 | 0.23450E-06 | 658651.9    | 4184688.0 | 12.3     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000605 | 0 | 0.23450E-06 | 658651.1    | 4184702.0 | 12.3     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000606 | 0 | 0.23450E-06 | 658650.2    | 4184715.9 | 12.4     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000607 | 0 | 0.23450E-06 | 658649.2    | 4184729.9 | 12.4     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000608 | 0 | 0.23450E-06 | 658648.2    | 4184743.9 | 12.5     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000609 | 0 | 0.23450E-06 | 658647.2    | 4184757.8 | 12.6     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000610 | 0 | 0.23450E-06 | 658646.1    | 4184771.8 | 12.7     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000611 | 0 | 0.23450E-06 | 658645.1    | 4184785.8 | 12.7     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000612 | 0 | 0.23450E-06 | 658644.1    | 4184799.7 | 12.7     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000613 | 0 | 0.23450E-06 | 658643.0    | 4184813.7 | 12.8     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000614 | 0 | 0.23450E-06 | 658642.0    | 4184827.7 | 13.0     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000615 | 0 | 0.23450E-06 | 658641.0    | 4184841.6 | 13.0     | 3.49 | 6.51     | 3.25     |          |    |
| YES      |   | NO          |             |           |          |      |          |          |          |    |
| L0000616 | 0 | 0.23450E-06 | 658640.0    | 4184855.6 | 13.1     | 3.49 | 6.51     | 3.25     |          |    |



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| L0000641 | 0 | 0.27440E-07 | 658296.7 | 4184862.2 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000642 | 0 | 0.27440E-07 | 658282.7 | 4184861.8 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000643 | 0 | 0.27440E-07 | 658268.7 | 4184861.4 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000644 | 0 | 0.27440E-07 | 658254.7 | 4184861.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000645 | 0 | 0.27440E-07 | 658240.7 | 4184860.6 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000646 | 0 | 0.27440E-07 | 658226.7 | 4184860.2 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000647 | 0 | 0.27440E-07 | 658212.8 | 4184859.8 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000648 | 0 | 0.27440E-07 | 658198.8 | 4184859.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000649 | 0 | 0.27440E-07 | 658184.8 | 4184859.1 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000650 | 0 | 0.27440E-07 | 658170.8 | 4184858.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000651 | 0 | 0.27440E-07 | 658156.8 | 4184858.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000652 | 0 | 0.27440E-07 | 658142.8 | 4184858.1 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000653 | 0 | 0.27440E-07 | 658128.8 | 4184857.8 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000654 | 0 | 0.27440E-07 | 658114.8 | 4184857.5 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000655 | 0 | 0.27440E-07 | 658100.8 | 4184857.2 | 11.8 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000656 | 0 | 0.27440E-07 | 658086.8 | 4184856.9 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000657 | 0 | 0.27440E-07 | 658072.8 | 4184856.7 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000658 | 0 | 0.27440E-07 | 658058.8 | 4184856.4 | 11.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000659 | 0 | 0.27440E-07 | 658044.8 | 4184856.1 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000660 | 0 | 0.27440E-07 | 658030.8 | 4184855.9 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000661 | 0 | 0.27440E-07 | 658016.8 | 4184855.6 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000662 | 0 | 0.27440E-07 | 658002.8 | 4184855.3 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000663 | 0 | 0.27440E-07 | 657988.8 | 4184855.1 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000664 | 0 | 0.27440E-07 | 657974.8 | 4184854.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000665 | 0 | 0.27440E-07 | 657960.8 | 4184854.5 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000666 | 0 | 0.27440E-07 | 657946.8 | 4184854.3 | 12.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000667 | 0 | 0.27440E-07 | 657932.8 | 4184854.0 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000668 | 0 | 0.27440E-07 | 657918.8 | 4184853.8 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000669 | 0 | 0.27440E-07 | 657904.8 | 4184853.5 | 12.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000670 | 0 | 0.27440E-07 | 657890.8 | 4184853.2 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000671 | 0 | 0.27440E-07 | 657876.8 | 4184853.0 | 12.0 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000672 | 0 | 0.27440E-07 | 657862.8 | 4184852.7 | 11.9 | 3.49 | 6.51 | 3.25 |





| ID<br>(METERS) | CATS. | BY          | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|----------------|-------|-------------|----------|-----------|----------|----------|----------|----------|
|                |       |             |          |           |          |          |          |          |
| L0000721       | 0     | 0.27440E-07 | 657177.0 | 4184838.6 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000722       | 0     | 0.27440E-07 | 657163.0 | 4184838.3 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000723       | 0     | 0.27440E-07 | 657149.0 | 4184838.0 | 11.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000724       | 0     | 0.27440E-07 | 657135.0 | 4184837.7 | 11.7     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000725       | 0     | 0.27440E-07 | 657121.0 | 4184837.4 | 11.7     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000726       | 0     | 0.27440E-07 | 657107.0 | 4184837.0 | 11.7     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000727       | 0     | 0.27440E-07 | 657093.0 | 4184836.5 | 11.7     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000728       | 0     | 0.27440E-07 | 657079.0 | 4184836.0 | 11.7     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000729       | 0     | 0.27440E-07 | 657065.0 | 4184835.6 | 11.6     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000730       | 0     | 0.27440E-07 | 657051.0 | 4184835.1 | 11.6     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000731       | 0     | 0.27440E-07 | 657037.0 | 4184834.6 | 11.6     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000732       | 0     | 0.19700E-06 | 658651.1 | 4184872.3 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000733       | 0     | 0.19700E-06 | 658665.1 | 4184872.6 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000734       | 0     | 0.19700E-06 | 658679.1 | 4184872.9 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000735       | 0     | 0.19700E-06 | 658693.1 | 4184873.1 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000736       | 0     | 0.19700E-06 | 658707.1 | 4184873.4 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000737       | 0     | 0.19700E-06 | 658721.1 | 4184873.7 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000738       | 0     | 0.19700E-06 | 658735.1 | 4184874.0 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000739       | 0     | 0.19700E-06 | 658749.1 | 4184874.3 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000740       | 0     | 0.19700E-06 | 658763.1 | 4184874.6 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000741       | 0     | 0.19700E-06 | 658777.1 | 4184874.9 | 13.1     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000742       | 0     | 0.19700E-06 | 658791.1 | 4184875.2 | 13.0     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000743       | 0     | 0.19700E-06 | 658805.1 | 4184875.5 | 12.9     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000744       | 0     | 0.19700E-06 | 658819.1 | 4184875.8 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000745       | 0     | 0.19700E-06 | 658833.1 | 4184876.1 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000746       | 0     | 0.19700E-06 | 658847.1 | 4184876.3 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000747       | 0     | 0.19700E-06 | 658861.1 | 4184876.6 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000748       | 0     | 0.19700E-06 | 658875.1 | 4184876.9 | 12.8     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000749       | 0     | 0.19700E-06 | 658889.1 | 4184877.2 | 12.9     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000750       | 0     | 0.19700E-06 | 658903.1 | 4184877.5 | 13.0     | 3.49     | 6.51     | 3.25     |
| YES            |       | NO          |          |           |          |          |          |          |
| L0000751       | 0     | 0.19700E-06 | 658917.1 | 4184877.8 | 13.0     | 3.49     | 6.51     | 3.25     |

|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000752 | 0 | 0.19700E-06 | 658931.1 | 4184878.1 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000753 | 0 | 0.19700E-06 | 658945.1 | 4184878.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000754 | 0 | 0.19700E-06 | 658959.1 | 4184878.7 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000755 | 0 | 0.19700E-06 | 658973.1 | 4184879.0 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000756 | 0 | 0.19700E-06 | 658987.1 | 4184879.3 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000757 | 0 | 0.19700E-06 | 659001.1 | 4184879.6 | 13.2 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000758 | 0 | 0.19700E-06 | 659015.0 | 4184879.8 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000759 | 0 | 0.19700E-06 | 659029.0 | 4184880.1 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000760 | 0 | 0.19700E-06 | 659043.0 | 4184880.4 | 13.1 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```

FF *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***          09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***          11:04:36

```

PAGE 26

\*\*\* MODELOPTs:      RegDFAULT   CONC   ELEV   URBAN   ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE   | NUMBER      |  | EMISSION RATE |  | BASE     |          | RELEASE  | INIT.    | INIT.    |          |
|----------|-------------|--|---------------|--|----------|----------|----------|----------|----------|----------|
|          | URBAN       |  | EMISSION RATE |  | AIRCRAFT |          |          |          |          |          |
|          | PART.       |  | (GRAMS/SEC)   |  | X        |          | ELEV.    | HEIGHT   | SY       | SZ       |
|          | SCALAR VARY |  |               |  |          |          | (METERS) | (METERS) | (METERS) | (METERS) |
| ID       | CATS.       |  |               |  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
| (METERS) |             |  | BY            |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----    |             |  |               |  |          |          |          |          |          |          |
| -----</  |             |  |               |  |          |          |          |          |          |          |



|          |   |             |          |           |      |      |      |      |
|----------|---|-------------|----------|-----------|------|------|------|------|
| YES      |   | NO          |          |           |      |      |      |      |
| L0000775 | 0 | 0.19700E-06 | 659252.7 | 4184891.3 | 14.7 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000776 | 0 | 0.19700E-06 | 659266.7 | 4184891.8 | 14.4 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000777 | 0 | 0.19700E-06 | 659280.7 | 4184892.3 | 13.9 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000778 | 0 | 0.19700E-06 | 659294.7 | 4184892.7 | 13.3 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000779 | 0 | 0.19700E-06 | 659308.7 | 4184893.2 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000780 | 0 | 0.19700E-06 | 659322.7 | 4184893.6 | 13.5 | 3.49 | 6.51 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000781 | 0 | 0.62610E-08 | 658638.6 | 4184883.8 | 13.1 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000782 | 0 | 0.62610E-08 | 658638.0 | 4184892.4 | 13.1 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000783 | 0 | 0.62610E-08 | 658637.4 | 4184900.9 | 13.1 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000784 | 0 | 0.62610E-08 | 658636.7 | 4184909.5 | 13.0 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000785 | 0 | 0.62610E-08 | 658636.1 | 4184918.1 | 13.0 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000786 | 0 | 0.62610E-08 | 658635.5 | 4184926.6 | 13.0 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000787 | 0 | 0.62610E-08 | 658634.9 | 4184935.2 | 12.9 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000788 | 0 | 0.62610E-08 | 658634.2 | 4184943.8 | 12.8 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000789 | 0 | 0.62610E-08 | 658633.6 | 4184952.3 | 12.8 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000790 | 0 | 0.62610E-08 | 658633.0 | 4184960.9 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000791 | 0 | 0.62610E-08 | 658632.4 | 4184969.5 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000792 | 0 | 0.62610E-08 | 658631.7 | 4184978.0 | 12.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000793 | 0 | 0.62610E-08 | 658631.1 | 4184986.6 | 12.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000794 | 0 | 0.62610E-08 | 658630.5 | 4184995.2 | 12.6 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000795 | 0 | 0.62610E-08 | 658629.8 | 4185003.7 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000796 | 0 | 0.62610E-08 | 658629.2 | 4185012.3 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000797 | 0 | 0.62610E-08 | 658628.6 | 4185020.9 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000798 | 0 | 0.62610E-08 | 658628.0 | 4185029.4 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000799 | 0 | 0.62610E-08 | 658627.3 | 4185038.0 | 12.7 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |
| L0000800 | 0 | 0.62610E-08 | 658626.7 | 4185046.6 | 12.8 | 3.49 | 4.00 | 3.25 |
| YES      |   | NO          |          |           |      |      |      |      |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

11:04:36

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

|        |               |          |      |         |       |       |
|--------|---------------|----------|------|---------|-------|-------|
| NUMBER | EMISSION RATE |          | BASE | RELEASE | INIT. | INIT. |
| URBAN  | EMISSION RATE | AIRCRAFT |      |         |       |       |

| SOURCE<br>SOURCE<br>ID<br>(METERS) | PART.<br>SCALAR VARY<br>CATS. | (GRAMS/SEC) | X<br>(METERS) | Y<br>(METERS) | ELEV.<br>(METERS) | HEIGHT<br>(METERS) | SY<br>(METERS) | SZ   |
|------------------------------------|-------------------------------|-------------|---------------|---------------|-------------------|--------------------|----------------|------|
| -----                              |                               |             |               |               |                   |                    |                |      |
| L0000801                           | 0                             | 0.62610E-08 | 658626.1      | 4185055.1     | 12.7              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000802                           | 0                             | 0.62610E-08 | 658625.4      | 4185063.7     | 12.7              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000803                           | 0                             | 0.62610E-08 | 658624.9      | 4185072.3     | 12.7              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000804                           | 0                             | 0.62610E-08 | 658624.3      | 4185080.9     | 12.7              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000805                           | 0                             | 0.62610E-08 | 658623.7      | 4185089.4     | 12.7              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000806                           | 0                             | 0.62610E-08 | 658623.1      | 4185098.0     | 12.8              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000807                           | 0                             | 0.62610E-08 | 658622.5      | 4185106.6     | 12.8              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000808                           | 0                             | 0.62610E-08 | 658621.9      | 4185115.1     | 12.8              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000809                           | 0                             | 0.62610E-08 | 658621.3      | 4185123.7     | 12.8              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000810                           | 0                             | 0.62610E-08 | 658620.7      | 4185132.3     | 12.8              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000811                           | 0                             | 0.62610E-08 | 658620.1      | 4185140.8     | 12.9              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000812                           | 0                             | 0.62610E-08 | 658619.5      | 4185149.4     | 12.9              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000813                           | 0                             | 0.62610E-08 | 658618.9      | 4185158.0     | 12.9              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000814                           | 0                             | 0.62610E-08 | 658618.4      | 4185166.6     | 12.9              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000815                           | 0                             | 0.62610E-08 | 658617.9      | 4185175.1     | 13.0              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000816                           | 0                             | 0.62610E-08 | 658617.4      | 4185183.7     | 13.0              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000817                           | 0                             | 0.62610E-08 | 658616.9      | 4185192.3     | 13.0              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000818                           | 0                             | 0.62610E-08 | 658616.5      | 4185200.9     | 13.0              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000819                           | 0                             | 0.62610E-08 | 658616.0      | 4185209.4     | 13.0              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000820                           | 0                             | 0.62610E-08 | 658615.5      | 4185218.0     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000821                           | 0                             | 0.62610E-08 | 658615.0      | 4185226.6     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000822                           | 0                             | 0.62610E-08 | 658614.6      | 4185235.2     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000823                           | 0                             | 0.62610E-08 | 658614.1      | 4185243.7     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000824                           | 0                             | 0.62610E-08 | 658613.6      | 4185252.3     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000825                           | 0                             | 0.62610E-08 | 658613.1      | 4185260.9     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |
| L0000826                           | 0                             | 0.62610E-08 | 658612.6      | 4185269.5     | 13.1              | 3.49               | 4.00           | 3.25 |
| YES                                |                               | NO          |               |               |                   |                    |                |      |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 11:04:36

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|       |         |   |        |   |        |   |        |   |        |   |        |   |
|-------|---------|---|--------|---|--------|---|--------|---|--------|---|--------|---|
| ALL   | IDLE1   | , | IDLE2  | , | IDLE3  | , | IDLE4  | , | IDLE5  | , | IDLE6  | , |
| IDLE7 | , IDLE8 | , |        |   |        |   |        |   |        |   |        |   |
|       | IDLE9   | , | IDLE10 | , | IDLE11 | , | IDLE12 | , | IDLE13 | , | IDLE14 | , |
|       | IDLE15  | , | IDLE16 | , |        |   |        |   |        |   |        |   |
|       | IDLE17  | , | IDLE18 | , | IDLE19 | , | IDLE20 | , | IDLE21 | , | IDLE22 | , |
|       | IDLE23  | , | IDLE24 | , |        |   |        |   |        |   |        |   |
|       | IDLE25  | , | IDLE26 | , | IDLE27 | , | IDLE28 | , | IDLE29 | , | IDLE30 | , |
|       | IDLE31  | , | IDLE32 | , |        |   |        |   |        |   |        |   |
|       | IDLE33  | , | IDLE34 | , | IDLE35 | , | IDLE36 | , | IDLE37 | , | IDLE38 | , |
|       | IDLE39  | , | IDLE40 | , |        |   |        |   |        |   |        |   |
|       | IDLE41  | , | IDLE42 | , | IDLE43 | , | IDLE44 | , | IDLE45 | , | IDLE46 | , |
|       | TRU1    | , | TRU2   | , |        |   |        |   |        |   |        |   |
|       | TRU3    | , | TRU4   | , | TRU5   | , | TRU6   | , | TRU7   | , | TRU8   | , |
|       | TRU9    | , | TRU10  | , |        |   |        |   |        |   |        |   |
|       | TRU11   | , | TRU12  | , | TRU13  | , | TRU14  | , | TRU15  | , | TRU16  | , |
|       | TRU17   | , | TRU18  | , |        |   |        |   |        |   |        |   |
|       | TRU19   | , | TRU20  | , | TRU21  | , | TRU22  | , | TRU23  | , | TRU24  | , |
|       | TRU25   | , | TRU26  | , |        |   |        |   |        |   |        |   |
|       | TRU27   | , | TRU28  | , | TRU29  | , | TRU30  | , | TRU31  | , | TRU32  | , |
|       | TRU33   | , | TRU34  | , |        |   |        |   |        |   |        |   |
|       | TRU35   | , | TRU36  | , | TRU37  | , | TRU38  | , | TRU39  | , | TRU40  | , |
|       | TRU41   | , | TRU42  | , |        |   |        |   |        |   |        |   |
|       | TRU43   | , | TRU44  | , | TRU45  | , | TRU46  | , | TTP1   | , | TTP2   | , |
|       | TTP3    | , | TTP4   | , |        |   |        |   |        |   |        |   |
|       | TTP5    | , | TTP6   | , | TTP7   | , | TTP8   | , | TTP9   | , | TTP10  | , |
|       | TTP11   | , | TTP12  | , |        |   |        |   |        |   |        |   |
|       | TTP13   | , | TTP14  | , | TTP15  | , | TTP16  | , | TTP17  | , | TTP18  | , |
|       | TTP19   | , | TTP20  | , |        |   |        |   |        |   |        |   |
|       | TTP21   | , | TTP22  | , | TTP23  | , | TTP24  | , | TTP25  | , | TTP26  | , |
|       | TTP27   | , | TTP28  | , |        |   |        |   |        |   |        |   |
|       | TTP29   | , | TTP30  | , | TTP31  | , | TTP32  | , | TTP33  | , | TTP34  | , |
|       | TTP35   | , | TTP36  | , |        |   |        |   |        |   |        |   |
|       | TTP37   | , | TTP38  | , | TTP39  | , | TTP40  | , | TTP41  | , | TTP42  | , |
|       | TTP43   | , | TTP44  | , |        |   |        |   |        |   |        |   |
|       | TTP45   | , | TTP46  | , | TTP47  | , | TTP48  | , | TTP49  | , | TTP50  | , |
|       | TTP51   | , | TTP52  | , |        |   |        |   |        |   |        |   |
|       | TTP53   | , | TTP54  | , | TTP55  | , | TTP56  | , | TTP57  | , | TTP58  | , |
|       | TTP59   | , | TTP60  | , |        |   |        |   |        |   |        |   |
|       | TTP61   | , | TTP62  | , | TTP63  | , | TTP64  | , | TTP65  | , | TTP66  | , |

|          |            |            |            |            |            |            |
|----------|------------|------------|------------|------------|------------|------------|
| TTP69    | , TTP70    | , TTP71    | , TTP72    | , TTP73    | , TTP74    | , TTP75    |
|          | , TTP76    | , TTP77    | , TTP78    | , TTP79    | , TTP80    | , TTP81    |
| TTP77    | , TTP78    | , TTP79    | , TTP80    | , TTP81    | , TTP82    | , TTP83    |
| TTP83    | , L0000001 | , L0000002 | , L0000003 | , L0000004 | , L0000005 | , L0000006 |
| L0000002 | , L0000003 | , L0000004 | , L0000005 | , L0000006 | , L0000007 | , L0000008 |
| L0000008 | , L0000009 | , L0000010 | , L0000011 | , L0000012 | , L0000013 | , L0000014 |
| L0000010 | , L0000011 | , L0000012 | , L0000013 | , L0000014 | , L0000015 | , L0000016 |
| L0000016 | , L0000017 | , L0000018 | , L0000019 | , L0000020 | , L0000021 | , L0000022 |
| L0000018 | , L0000019 | , L0000020 | , L0000021 | , L0000022 | , L0000023 | , L0000024 |
| L0000024 | , L0000025 | , L0000026 | , L0000027 | , L0000028 | , L0000029 | , L0000030 |
| L0000026 | , L0000027 | , L0000028 | , L0000029 | , L0000030 | , L0000031 | , L0000032 |
| L0000032 | , L0000033 | , L0000034 | , L0000035 | , L0000036 | , L0000037 | , L0000038 |
| L0000034 | , L0000035 | , L0000036 | , L0000037 | , L0000038 | , L0000039 | , L0000040 |
| L0000040 | , STCK1    | , STCK2    | , L0000041 | , L0000042 | , L0000043 | , L0000044 |
| STCK2    | , L0000041 | , L0000042 | , L0000043 | , L0000044 | , L0000045 | , L0000046 |
| L0000046 | , L0000047 | , L0000048 | , L0000049 | , L0000050 | , L0000051 | , L0000052 |
| L0000048 | , L0000049 | , L0000050 | , L0000051 | , L0000052 | , L0000053 | , L0000054 |
| L0000054 | , L0000055 | , L0000056 | , L0000057 | , L0000058 | , L0000059 | , L0000060 |
| L0000056 | , L0000057 | , L0000058 | , L0000059 | , L0000060 | , L0000061 | , L0000062 |
| L0000062 | , L0000063 | , L0000064 | , L0000065 | , L0000066 | , L0000067 | , L0000068 |
| L0000064 | , L0000065 | , L0000066 | , L0000067 | , L0000068 | , L0000069 | , L0000070 |
| L0000070 | , L0000071 | , L0000072 | , L0000073 | , L0000074 | , L0000075 | , L0000076 |
| L0000072 | , L0000073 | , L0000074 | , L0000075 | , L0000076 | , L0000077 | , L0000078 |
| L0000078 | , L0000079 | , L0000080 | , L0000081 | , L0000082 | , L0000083 | , L0000084 |
| L0000080 | , L0000081 | , L0000082 | , L0000083 | , L0000084 | , L0000085 | , L0000086 |
| L0000086 | , L0000087 | , L0000088 | , L0000089 | , L0000090 | , L0000091 | , L0000092 |
| L0000088 | , L0000089 | , L0000090 | , L0000091 | , L0000092 | , L0000093 | , L0000094 |
| L0000094 | , L0000095 | , L0000096 | , L0000097 | , L0000098 | , L0000099 | , L0000100 |
| L0000096 | , L0000097 | , L0000098 | , L0000099 | , L0000100 | , L0000101 | , L0000102 |
| L0000102 | , L0000103 | , L0000104 | , L0000105 | , L0000106 | , L0000107 | , L0000108 |
| L0000104 | , L0000105 | , L0000106 | , L0000107 | , L0000108 | , L0000109 | , L0000110 |
| L0000110 | , L0000111 | , L0000112 | , L0000113 | , L0000114 | , L0000115 | , L0000116 |
| L0000112 | , L0000113 | , L0000114 | , L0000115 | , L0000116 | , L0000117 | , L0000118 |
| L0000118 | , L0000119 | , L0000120 | , L0000121 | , L0000122 | , L0000123 | , L0000124 |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000120 | , | L0000121 | , | L0000122 | , | L0000123 | , | L0000124 | , | L0000125 | , |
| L0000126 | , | L0000127 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000128 | , | L0000129 | , | L0000130 | , | L0000131 | , | L0000132 | , | L0000133 | , |
| L0000134 | , | L0000135 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000136 | , | L0000137 | , | L0000138 | , | L0000139 | , | L0000140 | , | L0000141 | , |
| L0000142 | , | L0000143 | , |          |   |          |   |          |   |          |   |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24

```

```

*** AERMET - VERSION 21112 ***
***

```

```

***      11:04:36

```

PAGE 30

```

*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000144 | , | L0000145 | , | L0000146 | , | L0000147 | , | L0000148 | , | L0000149 | , |
| L0000150 | , | L0000151 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000152 | , | L0000153 | , | L0000154 | , | L0000155 | , | L0000156 | , | L0000157 | , |
| L0000158 | , | L0000159 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000160 | , | L0000161 | , | L0000162 | , | L0000163 | , | L0000164 | , | L0000165 | , |
| L0000166 | , | L0000167 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000168 | , | L0000169 | , | L0000170 | , | L0000171 | , | L0000172 | , | L0000173 | , |
| L0000174 | , | L0000175 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000176 | , | L0000177 | , | L0000178 | , | L0000179 | , | L0000180 | , | L0000181 | , |
| L0000182 | , | L0000183 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000184 | , | L0000185 | , | L0000186 | , | L0000187 | , | L0000188 | , | L0000189 | , |
| L0000190 | , | L0000191 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000192 | , | L0000193 | , | L0000194 | , | L0000195 | , | L0000196 | , | L0000197 | , |
| L0000198 | , | L0000199 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000200 | , | L0000201 | , | L0000202 | , | L0000203 | , | L0000204 | , | L0000205 | , |
| L0000206 | , | L0000207 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000208 | , | L0000209 | , | L0000210 | , | L0000211 | , | L0000212 | , | L0000213 | , |
| L0000214 | , | L0000215 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000216 | , | L0000217 | , | L0000218 | , | L0000219 | , | L0000220 | , | L0000221 | , |
| L0000222 | , | L0000223 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000224 | , | L0000225 | , | L0000226 | , | L0000227 | , | L0000228 | , | L0000229 | , |
| L0000230 | , | L0000231 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000232 | , | L0000233 | , | L0000234 | , | L0000235 | , | L0000236 | , | L0000237 | , |
| L0000238 | , | L0000239 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000240 | , | L0000241 | , | L0000242 | , | L0000243 | , | L0000244 | , | L0000245 | , |
| L0000246 | , | L0000247 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000248 | , | L0000249 | , | L0000250 | , | L0000251 | , | L0000252 | , | L0000253 | , |
| L0000254 | , | L0000255 | , |          |   |          |   |          |   |          |   |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000256 | , | L0000257 | , | L0000258 | , | L0000259 | , | L0000260 | , | L0000261 | , |
| L0000262 | , | L0000263 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000264 | , | L0000265 | , | L0000266 | , | L0000267 | , | L0000268 | , | L0000269 | , |
| L0000270 | , | L0000271 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000272 | , | L0000273 | , | L0000274 | , | L0000275 | , | L0000276 | , | L0000277 | , |
| L0000278 | , | L0000279 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000280 | , | L0000281 | , | L0000282 | , | L0000283 | , | L0000284 | , | L0000285 | , |
| L0000286 | , | L0000287 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000288 | , | L0000289 | , | L0000290 | , | L0000291 | , | L0000292 | , | L0000293 | , |
| L0000294 | , | L0000295 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000296 | , | L0000297 | , | L0000298 | , | L0000299 | , | L0000300 | , | L0000301 | , |
| L0000302 | , | L0000303 | , |          |   |          |   |          |   |          |   |

|                                                                                                                                                                                          |                                                                       |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|
|  *** AERMOD - VERSION 23132 ***<br>Spreckels\15639 Ops HRA\1 ***<br>*** AERMET - VERSION 21112 ***<br>*** | *** C:\Users\Michael Tirohn\Desktop\HRAs\15639<br>09/20/24<br><br>*** | 11:04:36 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000304 | , | L0000305 | , | L0000306 | , | L0000307 | , | L0000308 | , | L0000309 | , |
| L0000310 | , | L0000311 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000312 | , | L0000313 | , | L0000314 | , | L0000315 | , | L0000316 | , | L0000317 | , |
| L0000318 | , | L0000319 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000320 | , | L0000321 | , | L0000322 | , | L0000323 | , | L0000324 | , | L0000325 | , |
| L0000326 | , | L0000327 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000328 | , | L0000329 | , | L0000330 | , | L0000331 | , | L0000332 | , | L0000333 | , |
| L0000334 | , | L0000335 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000336 | , | L0000337 | , | L0000338 | , | L0000339 | , | L0000340 | , | L0000341 | , |
| L0000342 | , | L0000343 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000344 | , | L0000345 | , | L0000346 | , | L0000347 | , | L0000348 | , | L0000349 | , |
| L0000350 | , | L0000351 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000352 | , | L0000353 | , | L0000354 | , | L0000355 | , | L0000356 | , | L0000357 | , |
| L0000358 | , | L0000359 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000360 | , | L0000361 | , | L0000362 | , | L0000363 | , | L0000364 | , | L0000365 | , |
| L0000366 | , | L0000367 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000368 | , | L0000369 | , | L0000370 | , | L0000371 | , | L0000372 | , | L0000373 | , |
| L0000374 | , | L0000375 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000376 | , | L0000377 | , | L0000378 | , | L0000379 | , | L0000380 | , | L0000381 | , |
| L0000382 | , | L0000383 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000384 | , | L0000385 | , | L0000386 | , | L0000387 | , | L0000388 | , | L0000389 | , |
| L0000390 | , | L0000391 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000392 | , | L0000393 | , | L0000394 | , | L0000395 | , | L0000396 | , | L0000397 | , |

|          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|
| L0000398 | , | L0000399 | , |          |   |          |   |
| L0000400 | , | L0000401 | , | L0000402 | , | L0000403 | , |
| L0000406 | , | L0000407 | , |          |   |          |   |
| L0000408 | , | L0000409 | , | L0000410 | , | L0000411 | , |
| L0000414 | , | L0000415 | , |          |   |          |   |
| L0000416 | , | L0000417 | , | L0000418 | , | L0000419 | , |
| L0000422 | , | L0000423 | , |          |   |          |   |
| L0000424 | , | L0000425 | , | L0000426 | , | L0000427 | , |
| L0000430 | , | L0000431 | , |          |   |          |   |
| L0000432 | , | L0000433 | , | L0000434 | , | L0000435 | , |
| L0000438 | , | L0000439 | , |          |   |          |   |
| L0000440 | , | L0000441 | , | L0000442 | , | L0000443 | , |
| L0000446 | , | L0000447 | , |          |   |          |   |
| L0000448 | , | L0000449 | , | L0000450 | , | L0000451 | , |
| L0000454 | , | L0000455 | , |          |   |          |   |
| L0000456 | , | L0000457 | , | L0000458 | , | L0000459 | , |
| L0000462 | , | L0000463 | , |          |   |          |   |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***

```

\*\*\* 11:04:36

PAGE 32

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000464 | , | L0000465 | , | L0000466 | , | L0000467 | , | L0000468 | , | L0000469 | , |
| L0000470 | , | L0000471 | , |          |   |          |   |          |   |          |   |
| L0000472 | , | L0000473 | , | L0000474 | , | L0000475 | , | L0000476 | , | L0000477 | , |
| L0000478 | , | L0000479 | , |          |   |          |   |          |   |          |   |
| L0000480 | , | L0000481 | , | L0000482 | , | L0000483 | , | L0000484 | , | L0000485 | , |
| L0000486 | , | L0000487 | , |          |   |          |   |          |   |          |   |
| L0000488 | , | L0000489 | , | L0000490 | , | L0000491 | , | L0000492 | , | L0000493 | , |
| L0000494 | , | L0000495 | , |          |   |          |   |          |   |          |   |
| L0000496 | , | L0000497 | , | L0000498 | , | L0000499 | , | L0000500 | , | L0000501 | , |
| L0000502 | , | L0000503 | , |          |   |          |   |          |   |          |   |
| L0000504 | , | L0000505 | , | L0000506 | , | L0000507 | , | L0000508 | , | L0000509 | , |
| L0000510 | , | L0000511 | , |          |   |          |   |          |   |          |   |
| L0000512 | , | L0000513 | , | L0000514 | , | L0000515 | , | L0000516 | , | L0000517 | , |
| L0000518 | , | L0000519 | , |          |   |          |   |          |   |          |   |
| L0000520 | , | L0000521 | , | L0000522 | , | L0000523 | , | L0000524 | , | L0000525 | , |
| L0000526 | , | L0000527 | , |          |   |          |   |          |   |          |   |
| L0000528 | , | L0000529 | , | L0000530 | , | L0000531 | , | L0000532 | , | L0000533 | , |
| L0000534 | , | L0000535 | , |          |   |          |   |          |   |          |   |

```
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 ***      09/20/24  
*** AERMET - VERSION 21112 ***  
***                                     *** 11:04:36
```

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

SOURCE IDs  
-----

|                      |                          |                 |            |            |            |   |
|----------------------|--------------------------|-----------------|------------|------------|------------|---|
| L0000624<br>L0000630 | , L0000625<br>, L0000631 | , L0000626<br>, | , L0000627 | , L0000628 | , L0000629 | , |
| L0000632<br>L0000638 | , L0000633<br>, L0000639 | , L0000634<br>, | , L0000635 | , L0000636 | , L0000637 | , |
| L0000640<br>L0000646 | , L0000641<br>, L0000647 | , L0000642<br>, | , L0000643 | , L0000644 | , L0000645 | , |
| L0000648<br>L0000654 | , L0000649<br>, L0000655 | , L0000650<br>, | , L0000651 | , L0000652 | , L0000653 | , |
| L0000656<br>L0000662 | , L0000657<br>, L0000663 | , L0000658<br>, | , L0000659 | , L0000660 | , L0000661 | , |
| L0000664<br>L0000670 | , L0000665<br>, L0000671 | , L0000666<br>, | , L0000667 | , L0000668 | , L0000669 | , |



|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000672 | , | L0000673 | , | L0000674 | , | L0000675 | , | L0000676 | , | L0000677 | , |
| L0000678 | , | L0000679 | , |          |   |          |   |          |   |          |   |
| L0000680 | , | L0000681 | , | L0000682 | , | L0000683 | , | L0000684 | , | L0000685 | , |
| L0000686 | , | L0000687 | , |          |   |          |   |          |   |          |   |
| L0000688 | , | L0000689 | , | L0000690 | , | L0000691 | , | L0000692 | , | L0000693 | , |
| L0000694 | , | L0000695 | , |          |   |          |   |          |   |          |   |
| L0000696 | , | L0000697 | , | L0000698 | , | L0000699 | , | L0000700 | , | L0000701 | , |
| L0000702 | , | L0000703 | , |          |   |          |   |          |   |          |   |
| L0000704 | , | L0000705 | , | L0000706 | , | L0000707 | , | L0000708 | , | L0000709 | , |
| L0000710 | , | L0000711 | , |          |   |          |   |          |   |          |   |
| L0000712 | , | L0000713 | , | L0000714 | , | L0000715 | , | L0000716 | , | L0000717 | , |
| L0000718 | , | L0000719 | , |          |   |          |   |          |   |          |   |
| L0000720 | , | L0000721 | , | L0000722 | , | L0000723 | , | L0000724 | , | L0000725 | , |
| L0000726 | , | L0000727 | , |          |   |          |   |          |   |          |   |
| L0000728 | , | L0000729 | , | L0000730 | , | L0000731 | , | L0000732 | , | L0000733 | , |
| L0000734 | , | L0000735 | , |          |   |          |   |          |   |          |   |
| L0000736 | , | L0000737 | , | L0000738 | , | L0000739 | , | L0000740 | , | L0000741 | , |
| L0000742 | , | L0000743 | , |          |   |          |   |          |   |          |   |
| L0000744 | , | L0000745 | , | L0000746 | , | L0000747 | , | L0000748 | , | L0000749 | , |
| L0000750 | , | L0000751 | , |          |   |          |   |          |   |          |   |
| L0000752 | , | L0000753 | , | L0000754 | , | L0000755 | , | L0000756 | , | L0000757 | , |
| L0000758 | , | L0000759 | , |          |   |          |   |          |   |          |   |
| L0000760 | , | L0000761 | , | L0000762 | , | L0000763 | , | L0000764 | , | L0000765 | , |
| L0000766 | , | L0000767 | , |          |   |          |   |          |   |          |   |
| L0000768 | , | L0000769 | , | L0000770 | , | L0000771 | , | L0000772 | , | L0000773 | , |
| L0000774 | , | L0000775 | , |          |   |          |   |          |   |          |   |
| L0000776 | , | L0000777 | , | L0000778 | , | L0000779 | , | L0000780 | , | L0000781 | , |
| L0000782 | , | L0000783 | , |          |   |          |   |          |   |          |   |

**FF** \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 11:04:36

PAGE 34

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
 -----

SOURCE IDs  
 -----

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000784 | , | L0000785 | , | L0000786 | , | L0000787 | , | L0000788 | , | L0000789 | , |
| L0000790 | , | L0000791 | , |          |   |          |   |          |   |          |   |
| L0000792 | , | L0000793 | , | L0000794 | , | L0000795 | , | L0000796 | , | L0000797 | , |
| L0000798 | , | L0000799 | , |          |   |          |   |          |   |          |   |
| L0000800 | , | L0000801 | , | L0000802 | , | L0000803 | , | L0000804 | , | L0000805 | , |
| L0000806 | , | L0000807 | , |          |   |          |   |          |   |          |   |
| L0000808 | , | L0000809 | , | L0000810 | , | L0000811 | , | L0000812 | , | L0000813 | , |

L0000814 , L0000815 ,  
 L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 ,  
 L0000822 , L0000823 ,  
 L0000824 , L0000825 , L0000826 ,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\* 11:04:36

PAGE 35

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP                                             | SOURCE IDs                              |
|----------|-------------------------------------------------------|-----------------------------------------|
| -----    | -----                                                 | -----                                   |
|          | 62651.                                                | IDLE1 , IDLE2 , IDLE3 , IDLE4 , IDLE5 , |
|          | IDLE6                                                 | , IDLE7 ,                               |
| IDLE8    | ,                                                     |                                         |
|          | IDLE9 , IDLE10 , IDLE11 , IDLE12 , IDLE13 , IDLE14 ,  |                                         |
|          | IDLE15 , IDLE16 ,                                     |                                         |
|          | IDLE17 , IDLE18 , IDLE19 , IDLE20 , IDLE21 , IDLE22 , |                                         |
|          | IDLE23 , IDLE24 ,                                     |                                         |
|          | IDLE25 , IDLE26 , IDLE27 , IDLE28 , IDLE29 , IDLE30 , |                                         |
|          | IDLE31 , IDLE32 ,                                     |                                         |
|          | IDLE33 , IDLE34 , IDLE35 , IDLE36 , IDLE37 , IDLE38 , |                                         |
|          | IDLE39 , IDLE40 ,                                     |                                         |
|          | IDLE41 , IDLE42 , IDLE43 , IDLE44 , IDLE45 , IDLE46 , |                                         |
|          | TRU1 , TRU2 ,                                         |                                         |
|          | TRU3 , TRU4 , TRU5 , TRU6 , TRU7 , TRU8 ,             |                                         |
|          | TRU9 , TRU10 ,                                        |                                         |
|          | TRU11 , TRU12 , TRU13 , TRU14 , TRU15 , TRU16 ,       |                                         |
|          | TRU17 , TRU18 ,                                       |                                         |
|          | TRU19 , TRU20 , TRU21 , TRU22 , TRU23 , TRU24 ,       |                                         |
|          | TRU25 , TRU26 ,                                       |                                         |
|          | TRU27 , TRU28 , TRU29 , TRU30 , TRU31 , TRU32 ,       |                                         |
|          | TRU33 , TRU34 ,                                       |                                         |
|          | TRU35 , TRU36 , TRU37 , TRU38 , TRU39 , TRU40 ,       |                                         |
|          | TRU41 , TRU42 ,                                       |                                         |
|          | TRU43 , TRU44 , TRU45 , TRU46 , TTP1 , TTP2 ,         |                                         |
|          | TTP3 , TTP4 ,                                         |                                         |
|          | TTP5 , TTP6 , TTP7 , TTP8 , TTP9 , TTP10 ,            |                                         |
|          | TTP11 , TTP12 ,                                       |                                         |
|          | TTP13 , TTP14 , TTP15 , TTP16 , TTP17 , TTP18 ,       |                                         |
|          | TTP19 , TTP20 ,                                       |                                         |
|          | TTP21 , TTP22 , TTP23 , TTP24 , TTP25 , TTP26 ,       |                                         |
|          | TTP27 , TTP28 ,                                       |                                         |



|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000080 | , | L0000081 | , | L0000082 | , | L0000083 | , | L0000084 | , | L0000085 | , |
| L0000086 | , | L0000087 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000088 | , | L0000089 | , | L0000090 | , | L0000091 | , | L0000092 | , | L0000093 | , |
| L0000094 | , | L0000095 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000096 | , | L0000097 | , | L0000098 | , | L0000099 | , | L0000100 | , | L0000101 | , |
| L0000102 | , | L0000103 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000104 | , | L0000105 | , | L0000106 | , | L0000107 | , | L0000108 | , | L0000109 | , |
| L0000110 | , | L0000111 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000112 | , | L0000113 | , | L0000114 | , | L0000115 | , | L0000116 | , | L0000117 | , |
| L0000118 | , | L0000119 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000120 | , | L0000121 | , | L0000122 | , | L0000123 | , | L0000124 | , | L0000125 | , |
| L0000126 | , | L0000127 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000128 | , | L0000129 | , | L0000130 | , | L0000131 | , | L0000132 | , | L0000133 | , |
| L0000134 | , | L0000135 | , |          |   |          |   |          |   |          |   |
|          |   |          |   |          |   |          |   |          |   |          |   |
| L0000136 | , | L0000137 | , | L0000138 | , | L0000139 | , | L0000140 | , | L0000141 | , |
| L0000142 | , | L0000143 | , |          |   |          |   |          |   |          |   |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***      11:04:36

```

PAGE 37

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs |   |          |   |          |   |          |   |          |   |
|----------|-----------|------------|---|----------|---|----------|---|----------|---|----------|---|
| -----    | -----     | -----      |   |          |   |          |   |          |   |          |   |
| L0000144 | ,         | L0000145   | , | L0000146 | , | L0000147 | , | L0000148 | , | L0000149 | , |
| L0000150 | ,         | L0000151   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000152 | ,         | L0000153   | , | L0000154 | , | L0000155 | , | L0000156 | , | L0000157 | , |
| L0000158 | ,         | L0000159   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000160 | ,         | L0000161   | , | L0000162 | , | L0000163 | , | L0000164 | , | L0000165 | , |
| L0000166 | ,         | L0000167   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000168 | ,         | L0000169   | , | L0000170 | , | L0000171 | , | L0000172 | , | L0000173 | , |
| L0000174 | ,         | L0000175   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000176 | ,         | L0000177   | , | L0000178 | , | L0000179 | , | L0000180 | , | L0000181 | , |
| L0000182 | ,         | L0000183   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000184 | ,         | L0000185   | , | L0000186 | , | L0000187 | , | L0000188 | , | L0000189 | , |
| L0000190 | ,         | L0000191   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000192 | ,         | L0000193   | , | L0000194 | , | L0000195 | , | L0000196 | , | L0000197 | , |
| L0000198 | ,         | L0000199   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000200 | ,         | L0000201   | , | L0000202 | , | L0000203 | , | L0000204 | , | L0000205 | , |
| L0000206 | ,         | L0000207   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000208 | ,         | L0000209   | , | L0000210 | , | L0000211 | , | L0000212 | , | L0000213 | , |
| L0000214 | ,         | L0000215   | , |          |   |          |   |          |   |          |   |
|          |           |            |   |          |   |          |   |          |   |          |   |
| L0000216 | ,         | L0000217   | , | L0000218 | , | L0000219 | , | L0000220 | , | L0000221 | , |

```

L0000222      , L0000223      ,
L0000224      , L0000225      , L0000226      , L0000227      , L0000228      , L0000229      ,
L0000230      , L0000231      ,
L0000232      , L0000233      , L0000234      , L0000235      , L0000236      , L0000237      ,
L0000238      , L0000239      ,
L0000240      , L0000241      , L0000242      , L0000243      , L0000244      , L0000245      ,
L0000246      , L0000247      ,
L0000248      , L0000249      , L0000250      , L0000251      , L0000252      , L0000253      ,
L0000254      , L0000255      ,
L0000256      , L0000257      , L0000258      , L0000259      , L0000260      , L0000261      ,
L0000262      , L0000263      ,
L0000264      , L0000265      , L0000266      , L0000267      , L0000268      , L0000269      ,
L0000270      , L0000271      ,
L0000272      , L0000273      , L0000274      , L0000275      , L0000276      , L0000277      ,
L0000278      , L0000279      ,
L0000280      , L0000281      , L0000282      , L0000283      , L0000284      , L0000285      ,
L0000286      , L0000287      ,
L0000288      , L0000289      , L0000290      , L0000291      , L0000292      , L0000293      ,
L0000294      , L0000295      ,
L0000296      , L0000297      , L0000298      , L0000299      , L0000300      , L0000301      ,
L0000302      , L0000303      ,

```

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24

```

```

*** AERMET - VERSION 21112 ***
***

```

```

*** 11:04:36

```

```

PAGE 38

```

```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```

```

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

```

| URBAN ID | URBAN POP  | SOURCE IDs |
|----------|------------|------------|
| -----    | -----      | -----      |
| L0000304 | , L0000305 | , L0000306 |
| L0000310 | , L0000311 | , L0000307 |
| L0000312 | , L0000313 | , L0000308 |
| L0000318 | , L0000319 | , L0000309 |
| L0000320 | , L0000321 | , L0000314 |
| L0000326 | , L0000327 | , L0000315 |
| L0000328 | , L0000329 | , L0000316 |
| L0000334 | , L0000335 | , L0000317 |
| L0000336 | , L0000337 | , L0000322 |
| L0000342 | , L0000343 | , L0000323 |
| L0000344 | , L0000345 | , L0000324 |
| L0000350 | , L0000351 | , L0000325 |
| L0000352 | , L0000353 | , L0000328 |
| L0000358 | , L0000359 | , L0000329 |
|          |            | , L0000330 |
|          |            | , L0000331 |
|          |            | , L0000332 |
|          |            | , L0000333 |
|          |            | , L0000337 |
|          |            | , L0000338 |
|          |            | , L0000339 |
|          |            | , L0000340 |
|          |            | , L0000341 |
|          |            | , L0000345 |
|          |            | , L0000346 |
|          |            | , L0000347 |
|          |            | , L0000348 |
|          |            | , L0000349 |
|          |            | , L0000352 |
|          |            | , L0000353 |
|          |            | , L0000354 |
|          |            | , L0000355 |
|          |            | , L0000356 |
|          |            | , L0000357 |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***
11:04:36

```

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

| URBAN ID | URBAN POP | SOURCE IDs |
|----------|-----------|------------|
| L0000464 | L0000465  | L0000466   |
| L0000470 | L0000471  |            |
| L0000472 | L0000473  | L0000474   |
| L0000478 | L0000479  |            |
| L0000480 | L0000481  | L0000482   |
| L0000486 | L0000487  |            |
| L0000488 | L0000489  | L0000490   |
| L0000494 | L0000495  |            |

|          |   |          |   |          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|
| L0000496 | , | L0000497 | , | L0000498 | , | L0000499 | , | L0000500 | , | L0000501 | , |
| L0000502 | , | L0000503 | , |          |   |          |   |          |   |          |   |
| L0000504 | , | L0000505 | , | L0000506 | , | L0000507 | , | L0000508 | , | L0000509 | , |
| L0000510 | , | L0000511 | , |          |   |          |   |          |   |          |   |
| L0000512 | , | L0000513 | , | L0000514 | , | L0000515 | , | L0000516 | , | L0000517 | , |
| L0000518 | , | L0000519 | , |          |   |          |   |          |   |          |   |
| L0000520 | , | L0000521 | , | L0000522 | , | L0000523 | , | L0000524 | , | L0000525 | , |
| L0000526 | , | L0000527 | , |          |   |          |   |          |   |          |   |
| L0000528 | , | L0000529 | , | L0000530 | , | L0000531 | , | L0000532 | , | L0000533 | , |
| L0000534 | , | L0000535 | , |          |   |          |   |          |   |          |   |
| L0000536 | , | L0000537 | , | L0000538 | , | L0000539 | , | L0000540 | , | L0000541 | , |
| L0000542 | , | L0000543 | , |          |   |          |   |          |   |          |   |
| L0000544 | , | L0000545 | , | L0000546 | , | L0000547 | , | L0000548 | , | L0000549 | , |
| L0000550 | , | L0000551 | , |          |   |          |   |          |   |          |   |
| L0000552 | , | L0000553 | , | L0000554 | , | L0000555 | , | L0000556 | , | L0000557 | , |
| L0000558 | , | L0000559 | , |          |   |          |   |          |   |          |   |
| L0000560 | , | L0000561 | , | L0000562 | , | L0000563 | , | L0000564 | , | L0000565 | , |
| L0000566 | , | L0000567 | , |          |   |          |   |          |   |          |   |
| L0000568 | , | L0000569 | , | L0000570 | , | L0000571 | , | L0000572 | , | L0000573 | , |
| L0000574 | , | L0000575 | , |          |   |          |   |          |   |          |   |
| L0000576 | , | L0000577 | , | L0000578 | , | L0000579 | , | L0000580 | , | L0000581 | , |
| L0000582 | , | L0000583 | , |          |   |          |   |          |   |          |   |
| L0000584 | , | L0000585 | , | L0000586 | , | L0000587 | , | L0000588 | , | L0000589 | , |
| L0000590 | , | L0000591 | , |          |   |          |   |          |   |          |   |
| L0000592 | , | L0000593 | , | L0000594 | , | L0000595 | , | L0000596 | , | L0000597 | , |
| L0000598 | , | L0000599 | , |          |   |          |   |          |   |          |   |
| L0000600 | , | L0000601 | , | L0000602 | , | L0000603 | , | L0000604 | , | L0000605 | , |
| L0000606 | , | L0000607 | , |          |   |          |   |          |   |          |   |
| L0000608 | , | L0000609 | , | L0000610 | , | L0000611 | , | L0000612 | , | L0000613 | , |
| L0000614 | , | L0000615 | , |          |   |          |   |          |   |          |   |
| L0000616 | , | L0000617 | , | L0000618 | , | L0000619 | , | L0000620 | , | L0000621 | , |
| L0000622 | , | L0000623 | , |          |   |          |   |          |   |          |   |

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***

```

\*\*\* 11:04:36

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs                                             |
|----------|-----------|--------------------------------------------------------|
| -----    | -----     | -----                                                  |
| L0000624 | ,         | L0000625 , L0000626 , L0000627 , L0000628 , L0000629 , |
| L0000630 | ,         | L0000631 ,                                             |
| L0000632 | ,         | L0000633 , L0000634 , L0000635 , L0000636 , L0000637 , |

|          |   |          |   |          |   |          |   |
|----------|---|----------|---|----------|---|----------|---|
| L0000638 | , | L0000639 | , |          |   |          |   |
| L0000640 | , | L0000641 | , | L0000642 | , | L0000643 | , |
| L0000646 | , | L0000647 | , |          |   |          |   |
| L0000648 | , | L0000649 | , | L0000650 | , | L0000651 | , |
| L0000654 | , | L0000655 | , |          |   |          |   |
| L0000656 | , | L0000657 | , | L0000658 | , | L0000659 | , |
| L0000662 | , | L0000663 | , |          |   |          |   |
| L0000664 | , | L0000665 | , | L0000666 | , | L0000667 | , |
| L0000670 | , | L0000671 | , |          |   |          |   |
| L0000672 | , | L0000673 | , | L0000674 | , | L0000675 | , |
| L0000678 | , | L0000679 | , |          |   |          |   |
| L0000680 | , | L0000681 | , | L0000682 | , | L0000683 | , |
| L0000686 | , | L0000687 | , |          |   |          |   |
| L0000688 | , | L0000689 | , | L0000690 | , | L0000691 | , |
| L0000694 | , | L0000695 | , |          |   |          |   |
| L0000696 | , | L0000697 | , | L0000698 | , | L0000699 | , |
| L0000702 | , | L0000703 | , |          |   |          |   |
| L0000704 | , | L0000705 | , | L0000706 | , | L0000707 | , |
| L0000710 | , | L0000711 | , |          |   |          |   |
| L0000712 | , | L0000713 | , | L0000714 | , | L0000715 | , |
| L0000718 | , | L0000719 | , |          |   |          |   |
| L0000720 | , | L0000721 | , | L0000722 | , | L0000723 | , |
| L0000726 | , | L0000727 | , |          |   |          |   |
| L0000728 | , | L0000729 | , | L0000730 | , | L0000731 | , |
| L0000734 | , | L0000735 | , |          |   |          |   |
| L0000736 | , | L0000737 | , | L0000738 | , | L0000739 | , |
| L0000742 | , | L0000743 | , |          |   |          |   |
| L0000744 | , | L0000745 | , | L0000746 | , | L0000747 | , |
| L0000750 | , | L0000751 | , |          |   |          |   |
| L0000752 | , | L0000753 | , | L0000754 | , | L0000755 | , |
| L0000758 | , | L0000759 | , |          |   |          |   |
| L0000760 | , | L0000761 | , | L0000762 | , | L0000763 | , |
| L0000766 | , | L0000767 | , |          |   |          |   |
| L0000768 | , | L0000769 | , | L0000770 | , | L0000771 | , |
| L0000774 | , | L0000775 | , |          |   |          |   |
| L0000776 | , | L0000777 | , | L0000778 | , | L0000779 | , |
| L0000782 | , | L0000783 | , |          |   |          |   |

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***

```

\*\*\* 11:04:36

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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



URBAN ID      URBAN POP  
-----

SOURCE IDs  
-----

L0000784      , L0000785      , L0000786      , L0000787      , L0000788      , L0000789      ,  
L0000790      , L0000791      ,  
  
L0000792      , L0000793      , L0000794      , L0000795      , L0000796      , L0000797      ,  
L0000798      , L0000799      ,  
  
L0000800      , L0000801      , L0000802      , L0000803      , L0000804      , L0000805      ,  
L0000806      , L0000807      ,  
  
L0000808      , L0000809      , L0000810      , L0000811      , L0000812      , L0000813      ,  
L0000814      , L0000815      ,  
  
L0000816      , L0000817      , L0000818      , L0000819      , L0000820      , L0000821      ,  
L0000822      , L0000823      ,  
  
L0000824      , L0000825      , L0000826      ,

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*      \*\*\*      11:04:36

PAGE 42

\*\*\* MODELOPTs:      RegDFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -15.5,  | -91.7,  | 2   | 13.7, | 340.1, | 204.2, | -26.1,  | -79.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -35.9,  | -65.3,  | 4   | 13.7, | 306.8, | 285.7, | -44.6,  | -48.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -52.0,  | -31.0,  | 6   | 13.7, | 236.4, | 332.7, | -57.8,  | -12.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -61.8,  | 7.1,    | 8   | 13.7, | 138.4, | 339.6, | -63.9,  | 26.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -66.5,  | 46.3,   | 10  | 13.7, | 154.2, | 341.4, | -79.0,  | 61.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -90.3,  | 76.0,   | 12  | 13.7, | 248.8, | 328.4, | -98.9,  | 88.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -104.5, | 98.2,   | 14  | 13.7, | 314.0, | 275.8, | -106.9, | 105.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -106.1, | 108.6,  | 16  | 13.7, | 341.3, | 189.9, | -102.0, | 108.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -95.6,  | 105.8,  | 18  | 13.7, | 333.6, | 101.5, | -97.0,  | 100.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -138.6, | 91.7,   | 20  | 13.7, | 340.1, | 204.2, | -178.1, | 79.7,   |
| 21  | 13.7, | 328.4, | 248.8, | -212.8, | 65.3,   | 22  | 13.7, | 306.8, | 285.7, | -241.1, | 48.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -262.0, | 31.0,   | 24  | 13.7, | 236.4, | 332.7, | -274.9, | 12.1,   |
| 25  | 13.7, | 189.9, | 341.3, | -279.5, | -7.1,   | 26  | 13.7, | 138.4, | 339.6, | -275.6, | -26.4,  |
| 27  | 13.7, | 101.5, | 333.6, | -267.1, | -46.3,  | 28  | 13.7, | 154.2, | 341.4, | -262.4, | -61.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -249.8, | -76.0,  | 30  | 13.7, | 248.8, | 328.4, | -229.5, | -88.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -202.3, | -98.2,  | 32  | 13.7, | 314.0, | 275.8, | -168.9, | -105.0, |
| 33  | 13.7, | 332.7, | 236.4, | -130.4, | -108.6, | 34  | 13.7, | 341.3, | 189.9, | -87.9,  | -108.9, |
| 35  | 13.7, | 339.6, | 138.4, | -42.7,  | -105.8, | 36  | 13.7, | 333.6, | 101.5, | -4.5,   | -100.3, |

SOURCE ID: IDLE2

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -16.4,  | -87.8, | 2   | 13.7, | 340.1, | 204.2, | -27.7,  | -76.0, |
| 3   | 13.7, | 328.4, | 248.8, | -38.1,  | -61.9, | 4   | 13.7, | 306.8, | 285.7, | -47.4,  | -45.9, |
| 5   | 13.7, | 275.8, | 314.0, | -55.2,  | -28.6, | 6   | 13.7, | 236.4, | 332.7, | -61.4,  | -10.3, |
| 7   | 13.7, | 189.9, | 341.3, | -65.7,  | 8.2,   | 8   | 13.7, | 138.4, | 339.6, | -68.0,  | 26.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -70.5,  | 46.1,  | 10  | 13.7, | 154.2, | 341.4, | -82.9,  | 60.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -94.0,  | 74.4,  | 12  | 13.7, | 248.8, | 328.4, | -102.3, | 86.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -107.4, | 95.5,  | 14  | 13.7, | 314.0, | 275.8, | -109.3, | 101.8, |
| 15  | 13.7, | 332.7, | 236.4, | -107.9, | 105.0, | 16  | 13.7, | 341.3, | 189.9, | -103.2, | 105.0, |
| 17  | 13.7, | 339.6, | 138.4, | -96.1,  | 101.8, | 18  | 13.7, | 333.6, | 101.5, | -96.8,  | 96.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -137.7, | 87.8,  | 20  | 13.7, | 340.1, | 204.2, | -176.5, | 76.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -210.6, | 61.9,  | 22  | 13.7, | 306.8, | 285.7, | -238.3, | 45.9,  |

SOURCE ID: IDLE3

SOURCE ID: IDLE4

11:04:36

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE5

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.7, | -76.1, | 2   | 13.7, | 340.1, | 204.2, | -32.0, | -64.9, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 3  | 13.7, | 328.4, | 248.8, | -44.3,  | -51.7, | 4  | 13.7, | 306.8, | 285.7, | -55.2,  | -37.0, |
| 5  | 13.7, | 275.8, | 314.0, | -64.5,  | -21.1, | 6  | 13.7, | 236.4, | 332.7, | -71.8,  | -4.6,  |
| 7  | 13.7, | 189.9, | 341.3, | -76.9,  | 12.1,  | 8  | 13.7, | 138.4, | 339.6, | -79.7,  | 28.8,  |
| 9  | 13.7, | 101.5, | 333.6, | -82.4,  | 45.8,  | 10 | 13.7, | 154.2, | 341.4, | -94.6,  | 58.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -105.1, | 70.1,  | 12 | 13.7, | 248.8, | 328.4, | -112.5, | 80.1,  |
| 13 | 13.7, | 285.7, | 306.8, | -116.4, | 87.6,  | 14 | 13.7, | 314.0, | 275.8, | -116.8, | 92.5,  |
| 15 | 13.7, | 332.7, | 236.4, | -113.6, | 94.6,  | 16 | 13.7, | 341.3, | 189.9, | -107.0, | 93.8,  |
| 17 | 13.7, | 339.6, | 138.4, | -97.9,  | 90.1,  | 18 | 13.7, | 333.6, | 101.5, | -96.5,  | 84.4,  |
| 19 | 13.7, | 341.4, | 154.2, | -135.4, | 76.1,  | 20 | 13.7, | 340.1, | 204.2, | -172.3, | 64.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -204.5, | 51.7,  | 22 | 13.7, | 306.8, | 285.7, | -230.5, | 37.0,  |
| 23 | 13.7, | 275.8, | 314.0, | -249.5, | 21.1,  | 24 | 13.7, | 236.4, | 332.7, | -260.9, | 4.6,   |
| 25 | 13.7, | 189.9, | 341.3, | -264.4, | -12.1, | 26 | 13.7, | 138.4, | 339.6, | -259.9, | -28.8, |
| 27 | 13.7, | 101.5, | 333.6, | -251.2, | -45.8, | 28 | 13.7, | 154.2, | 341.4, | -246.8, | -58.3, |
| 29 | 13.7, | 204.2, | 340.1, | -235.0, | -70.1, | 30 | 13.7, | 248.8, | 328.4, | -215.9, | -80.1, |
| 31 | 13.7, | 285.7, | 306.8, | -190.3, | -87.6, | 32 | 13.7, | 314.0, | 275.8, | -159.0, | -92.5, |
| 33 | 13.7, | 332.7, | 236.4, | -122.8, | -94.6, | 34 | 13.7, | 341.3, | 189.9, | -82.9,  | -93.8, |
| 35 | 13.7, | 339.6, | 138.4, | -40.4,  | -90.1, | 36 | 13.7, | 333.6, | 101.5, | -4.9,   | -84.4, |

SOURCE ID: IDLE6

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -20.3,  | -68.5, | 2   | 13.7, | 340.1, | 204.2, | -34.8,  | -57.7, |
| 3   | 13.7, | 328.4, | 248.8, | -48.3,  | -45.1, | 4   | 13.7, | 306.8, | 285.7, | -60.4,  | -31.1, |
| 5   | 13.7, | 275.8, | 314.0, | -70.6,  | -16.2, | 6   | 13.7, | 236.4, | 332.7, | -78.6,  | -0.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -84.3,  | 14.6,  | 8   | 13.7, | 138.4, | 339.6, | -87.4,  | 29.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -90.2,  | 45.6,  | 10  | 13.7, | 154.2, | 341.4, | -102.2, | 56.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -112.4, | 67.3,  | 12  | 13.7, | 248.8, | 328.4, | -119.1, | 76.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -122.2, | 82.5,  | 14  | 13.7, | 314.0, | 275.8, | -121.6, | 86.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -117.4, | 87.7,  | 16  | 13.7, | 341.3, | 189.9, | -109.5, | 86.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.1,  | 82.4,  | 18  | 13.7, | 333.6, | 101.5, | -96.3,  | 76.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.9, | 68.5,  | 20  | 13.7, | 340.1, | 204.2, | -169.4, | 57.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -200.4, | 45.1,  | 22  | 13.7, | 306.8, | 285.7, | -225.3, | 31.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -243.4, | 16.2,  | 24  | 13.7, | 236.4, | 332.7, | -254.1, | 0.9,   |
| 25  | 13.7, | 189.9, | 341.3, | -257.0, | -14.6, | 26  | 13.7, | 138.4, | 339.6, | -252.2, | -29.9, |
| 27  | 13.7, | 101.5, | 333.6, | -243.4, | -45.6, | 28  | 13.7, | 154.2, | 341.4, | -239.2, | -56.8, |
| 29  | 13.7, | 204.2, | 340.1, | -227.7, | -67.3, | 30  | 13.7, | 248.8, | 328.4, | -209.3, | -76.0, |
| 31  | 13.7, | 285.7, | 306.8, | -184.5, | -82.5, | 32  | 13.7, | 314.0, | 275.8, | -154.1, | -86.4, |
| 33  | 13.7, | 332.7, | 236.4, | -119.1, | -87.7, | 34  | 13.7, | 341.3, | 189.9, | -80.4,  | -86.4, |
| 35  | 13.7, | 339.6, | 138.4, | -39.3,  | -82.4, | 36  | 13.7, | 333.6, | 101.5, | -5.1,   | -76.6, |

SOURCE ID: IDLE7

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -21.2,  | -64.6, | 2   | 13.7, | 340.1, | 204.2, | -36.4,  | -53.9, |
| 3   | 13.7, | 328.4, | 248.8, | -50.5,  | -41.7, | 4   | 13.7, | 306.8, | 285.7, | -63.1,  | -28.2, |
| 5   | 13.7, | 275.8, | 314.0, | -73.8,  | -13.8, | 6   | 13.7, | 236.4, | 332.7, | -82.2,  | 1.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -88.1,  | 15.8,  | 8   | 13.7, | 138.4, | 339.6, | -91.4,  | 30.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -94.2,  | 45.4,  | 10  | 13.7, | 154.2, | 341.4, | -106.1, | 55.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -116.1, | 65.7,  | 12  | 13.7, | 248.8, | 328.4, | -122.5, | 73.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -125.2, | 79.7,  | 14  | 13.7, | 314.0, | 275.8, | -124.1, | 83.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -119.2, | 84.1,  | 16  | 13.7, | 341.3, | 189.9, | -110.7, | 82.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.6,  | 78.4,  | 18  | 13.7, | 333.6, | 101.5, | -96.1,  | 72.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.0, | 64.6,  | 20  | 13.7, | 340.1, | 204.2, | -167.8, | 53.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -198.2, | 41.7,  | 22  | 13.7, | 306.8, | 285.7, | -222.6, | 28.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -240.2, | 13.8,  | 24  | 13.7, | 236.4, | 332.7, | -250.5, | -1.0,  |
| 25  | 13.7, | 189.9, | 341.3, | -253.2, | -15.8, | 26  | 13.7, | 138.4, | 339.6, | -248.2, | -30.4, |
| 27  | 13.7, | 101.5, | 333.6, | -239.4, | -45.4, | 28  | 13.7, | 154.2, | 341.4, | -235.3, | -55.9, |
| 29  | 13.7, | 204.2, | 340.1, | -224.0, | -65.7, | 30  | 13.7, | 248.8, | 328.4, | -205.9, | -73.8, |
| 31  | 13.7, | 285.7, | 306.8, | -181.6, | -79.7, | 32  | 13.7, | 314.0, | 275.8, | -151.7, | -83.2, |
| 33  | 13.7, | 332.7, | 236.4, | -117.2, | -84.1, | 34  | 13.7, | 341.3, | 189.9, | -79.2,  | -82.5, |
| 35  | 13.7, | 339.6, | 138.4, | -38.8,  | -78.4, | 36  | 13.7, | 333.6, | 101.5, | -5.3,   | -72.6, |

SOURCE ID: IDLE8

|     |       |        |        |        |        |     |       |        |        |        |        |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -21.9, | -60.8, | 2   | 13.7, | 340.1, | 204.2, | -37.8, | -50.4, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 3  | 13.7, | 328.4, | 248.8, | -52.5,  | -38.4, | 4  | 13.7, | 306.8, | 285.7, | -65.6,  | -25.3, |
| 5  | 13.7, | 275.8, | 314.0, | -76.7,  | -11.4, | 6  | 13.7, | 236.4, | 332.7, | -85.5,  | 2.8,   |
| 7  | 13.7, | 189.9, | 341.3, | -91.7,  | 17.0,  | 8  | 13.7, | 138.4, | 339.6, | -95.2,  | 31.0,  |
| 9  | 13.7, | 101.5, | 333.6, | -98.0,  | 45.4,  | 10 | 13.7, | 154.2, | 341.4, | -109.9, | 55.2,  |
| 11 | 13.7, | 204.2, | 340.1, | -119.6, | 64.4,  | 12 | 13.7, | 248.8, | 328.4, | -125.8, | 71.9,  |
| 13 | 13.7, | 285.7, | 306.8, | -128.1, | 77.2,  | 14 | 13.7, | 314.0, | 275.8, | -126.5, | 80.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -121.1, | 80.8,  | 16 | 13.7, | 341.3, | 189.9, | -112.0, | 78.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -100.2, | 74.6,  | 18 | 13.7, | 333.6, | 101.5, | -96.1,  | 68.8,  |
| 19 | 13.7, | 341.4, | 154.2, | -132.3, | 60.8,  | 20 | 13.7, | 340.1, | 204.2, | -166.5, | 50.4,  |
| 21 | 13.7, | 328.4, | 248.8, | -196.3, | 38.4,  | 22 | 13.7, | 306.8, | 285.7, | -220.1, | 25.3,  |
| 23 | 13.7, | 275.8, | 314.0, | -237.2, | 11.4,  | 24 | 13.7, | 236.4, | 332.7, | -247.2, | -2.8,  |
| 25 | 13.7, | 189.9, | 341.3, | -249.6, | -17.0, | 26 | 13.7, | 138.4, | 339.6, | -244.4, | -31.0, |
| 27 | 13.7, | 101.5, | 333.6, | -235.6, | -45.4, | 28 | 13.7, | 154.2, | 341.4, | -231.5, | -55.2, |
| 29 | 13.7, | 204.2, | 340.1, | -220.4, | -64.4, | 30 | 13.7, | 248.8, | 328.4, | -202.6, | -71.9, |
| 31 | 13.7, | 285.7, | 306.8, | -178.7, | -77.2, | 32 | 13.7, | 314.0, | 275.8, | -149.3, | -80.2, |
| 33 | 13.7, | 332.7, | 236.4, | -115.4, | -80.8, | 34 | 13.7, | 341.3, | 189.9, | -78.0,  | -78.9, |
| 35 | 13.7, | 339.6, | 138.4, | -38.1,  | -74.6, | 36 | 13.7, | 333.6, | 101.5, | -5.4,   | -68.8, |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

11:04:36

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE9

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.7,  | -56.9, | 2   | 13.7, | 340.1, | 204.2, | -39.3,  | -46.7, |
| 3   | 13.7, | 328.4, | 248.8, | -54.6,  | -35.0, | 4   | 13.7, | 306.8, | 285.7, | -68.3,  | -22.3, |
| 5   | 13.7, | 275.8, | 314.0, | -79.9,  | -8.9,  | 6   | 13.7, | 236.4, | 332.7, | -89.1,  | 4.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -95.5,  | 18.2,  | 8   | 13.7, | 138.4, | 339.6, | -99.1,  | 31.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -102.0, | 45.2,  | 10  | 13.7, | 154.2, | 341.4, | -113.8, | 54.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -123.3, | 62.9,  | 12  | 13.7, | 248.8, | 328.4, | -129.2, | 69.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -131.0, | 74.6,  | 14  | 13.7, | 314.0, | 275.8, | -129.0, | 77.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -122.9, | 77.3,  | 16  | 13.7, | 341.3, | 189.9, | -113.2, | 75.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -100.8, | 70.7,  | 18  | 13.7, | 333.6, | 101.5, | -96.0,  | 64.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -131.4, | 56.9,  | 20  | 13.7, | 340.1, | 204.2, | -165.0, | 46.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.2, | 35.0,  | 22  | 13.7, | 306.8, | 285.7, | -217.4, | 22.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -234.1, | 8.9,   | 24  | 13.7, | 236.4, | 332.7, | -243.6, | -4.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -245.8, | -18.2, | 26  | 13.7, | 138.4, | 339.6, | -240.5, | -31.6, |
| 27  | 13.7, | 101.5, | 333.6, | -231.6, | -45.2, | 28  | 13.7, | 154.2, | 341.4, | -227.6, | -54.3, |
| 29  | 13.7, | 204.2, | 340.1, | -216.7, | -62.9, | 30  | 13.7, | 248.8, | 328.4, | -199.2, | -69.8, |
| 31  | 13.7, | 285.7, | 306.8, | -175.7, | -74.6, | 32  | 13.7, | 314.0, | 275.8, | -146.8, | -77.1, |
| 33  | 13.7, | 332.7, | 236.4, | -113.5, | -77.3, | 34  | 13.7, | 341.3, | 189.9, | -76.7,  | -75.1, |
| 35  | 13.7, | 339.6, | 138.4, | -37.6,  | -70.7, | 36  | 13.7, | 333.6, | 101.5, | -5.5,   | -64.8, |

SOURCE ID: IDLE10

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.5,  | -52.9, | 2   | 13.7, | 340.1, | 204.2, | -40.7,  | -42.9, |
| 3   | 13.7, | 328.4, | 248.8, | -56.7,  | -31.5, | 4   | 13.7, | 306.8, | 285.7, | -70.9,  | -19.2, |
| 5   | 13.7, | 275.8, | 314.0, | -83.0,  | -6.3,  | 6   | 13.7, | 236.4, | 332.7, | -92.6,  | 6.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -99.4,  | 19.6,  | 8   | 13.7, | 138.4, | 339.6, | -103.1, | 32.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -106.1, | 45.2,  | 10  | 13.7, | 154.2, | 341.4, | -117.8, | 53.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -127.2, | 61.4,  | 12  | 13.7, | 248.8, | 328.4, | -132.7, | 67.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -134.2, | 71.9,  | 14  | 13.7, | 314.0, | 275.8, | -131.5, | 73.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -124.9, | 73.7,  | 16  | 13.7, | 341.3, | 189.9, | -114.5, | 71.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -101.4, | 66.6,  | 18  | 13.7, | 333.6, | 101.5, | -95.9,  | 60.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -130.7, | 52.9,  | 20  | 13.7, | 340.1, | 204.2, | -163.6, | 42.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.1, | 31.5,  | 22  | 13.7, | 306.8, | 285.7, | -214.8, | 19.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -230.9, | 6.3,   | 24  | 13.7, | 236.4, | 332.7, | -240.1, | -6.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -241.9, | -19.6, | 26  | 13.7, | 138.4, | 339.6, | -236.4, | -32.2, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 27 | 13.7, | 101.5, | 333.6, | -227.5, | -45.2, | 28 | 13.7, | 154.2, | 341.4, | -223.6, | -53.6, |
| 29 | 13.7, | 204.2, | 340.1, | -212.9, | -61.4, | 30 | 13.7, | 248.8, | 328.4, | -195.7, | -67.7, |
| 31 | 13.7, | 285.7, | 306.8, | -172.6, | -71.9, | 32 | 13.7, | 314.0, | 275.8, | -144.2, | -73.9, |
| 33 | 13.7, | 332.7, | 236.4, | -111.5, | -73.7, | 34 | 13.7, | 341.3, | 189.9, | -75.3,  | -71.3, |
| 35 | 13.7, | 339.6, | 138.4, | -36.9,  | -66.6, | 36 | 13.7, | 333.6, | 101.5, | -5.5,   | -60.7, |

SOURCE ID: IDLE11

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.3,  | -49.0, | 2   | 13.7, | 340.1, | 204.2, | -42.2,  | -39.2, |
| 3   | 13.7, | 328.4, | 248.8, | -58.8,  | -28.2, | 4   | 13.7, | 306.8, | 285.7, | -73.6,  | -16.3, |
| 5   | 13.7, | 275.8, | 314.0, | -86.2,  | -4.0,  | 6   | 13.7, | 236.4, | 332.7, | -96.1,  | 8.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -103.2, | 20.8,  | 8   | 13.7, | 138.4, | 339.6, | -107.1, | 32.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -110.0, | 45.0,  | 10  | 13.7, | 154.2, | 341.4, | -121.6, | 52.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -130.8, | 59.9,  | 12  | 13.7, | 248.8, | 328.4, | -136.0, | 65.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -137.0, | 69.2,  | 14  | 13.7, | 314.0, | 275.8, | -133.9, | 70.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.8, | 70.2,  | 16  | 13.7, | 341.3, | 189.9, | -115.7, | 67.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -101.9, | 62.7,  | 18  | 13.7, | 333.6, | 101.5, | -95.7,  | 56.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.8, | 49.0,  | 20  | 13.7, | 340.1, | 204.2, | -162.0, | 39.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -189.9, | 28.2,  | 22  | 13.7, | 306.8, | 285.7, | -212.1, | 16.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -227.8, | 4.0,   | 24  | 13.7, | 236.4, | 332.7, | -236.6, | -8.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -238.2, | -20.8, | 26  | 13.7, | 138.4, | 339.6, | -232.5, | -32.8, |
| 27  | 13.7, | 101.5, | 333.6, | -223.6, | -45.0, | 28  | 13.7, | 154.2, | 341.4, | -219.8, | -52.7, |
| 29  | 13.7, | 204.2, | 340.1, | -209.3, | -59.9, | 30  | 13.7, | 248.8, | 328.4, | -192.4, | -65.6, |
| 31  | 13.7, | 285.7, | 306.8, | -169.7, | -69.2, | 32  | 13.7, | 314.0, | 275.8, | -141.9, | -70.8, |
| 33  | 13.7, | 332.7, | 236.4, | -109.7, | -70.2, | 34  | 13.7, | 341.3, | 189.9, | -74.2,  | -67.5, |
| 35  | 13.7, | 339.6, | 138.4, | -36.4,  | -62.7, | 36  | 13.7, | 333.6, | 101.5, | -5.7,   | -56.8, |

SOURCE ID: IDLE12

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.1,  | -45.1, | 2   | 13.7, | 340.1, | 204.2, | -43.7,  | -35.5, |
| 3   | 13.7, | 328.4, | 248.8, | -60.9,  | -24.8, | 4   | 13.7, | 306.8, | 285.7, | -76.3,  | -13.3, |
| 5   | 13.7, | 275.8, | 314.0, | -89.3,  | -1.5,  | 6   | 13.7, | 236.4, | 332.7, | -99.6,  | 10.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -107.0, | 22.1,  | 8   | 13.7, | 138.4, | 339.6, | -111.0, | 33.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -114.0, | 44.9,  | 10  | 13.7, | 154.2, | 341.4, | -125.6, | 51.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -134.5, | 58.4,  | 12  | 13.7, | 248.8, | 328.4, | -139.4, | 63.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -140.1, | 66.6,  | 14  | 13.7, | 314.0, | 275.8, | -136.4, | 67.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -128.7, | 66.7,  | 16  | 13.7, | 341.3, | 189.9, | -117.0, | 63.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.5, | 58.8,  | 18  | 13.7, | 333.6, | 101.5, | -95.6,  | 52.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.0, | 45.1,  | 20  | 13.7, | 340.1, | 204.2, | -160.6, | 35.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -187.9, | 24.8,  | 22  | 13.7, | 306.8, | 285.7, | -209.4, | 13.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -224.7, | 1.5,   | 24  | 13.7, | 236.4, | 332.7, | -233.1, | -10.5, |
| 25  | 13.7, | 189.9, | 341.3, | -234.4, | -22.1, | 26  | 13.7, | 138.4, | 339.6, | -228.6, | -33.3, |
| 27  | 13.7, | 101.5, | 333.6, | -219.6, | -44.9, | 28  | 13.7, | 154.2, | 341.4, | -215.8, | -51.9, |
| 29  | 13.7, | 204.2, | 340.1, | -205.5, | -58.4, | 30  | 13.7, | 248.8, | 328.4, | -189.0, | -63.5, |
| 31  | 13.7, | 285.7, | 306.8, | -166.7, | -66.6, | 32  | 13.7, | 314.0, | 275.8, | -139.3, | -67.7, |
| 33  | 13.7, | 332.7, | 236.4, | -107.8, | -66.7, | 34  | 13.7, | 341.3, | 189.9, | -72.9,  | -63.7, |
| 35  | 13.7, | 339.6, | 138.4, | -35.8,  | -58.8, | 36  | 13.7, | 333.6, | 101.5, | -5.8,   | -52.8, |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

11:04:36

PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE13

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.7,  | -22.0, | 2   | 13.7, | 340.1, | 204.2, | -52.2,  | -13.5, |
| 3   | 13.7, | 328.4, | 248.8, | -73.1,  | -4.6,  | 4   | 13.7, | 306.8, | 285.7, | -91.8,  | 4.4,   |
| 5   | 13.7, | 275.8, | 314.0, | -107.7, | 13.3,  | 6   | 13.7, | 236.4, | 332.7, | -120.3, | 21.8,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 7  | 13.7, | 189.9, | 341.3, | -129.3, | 29.6,  | 8  | 13.7, | 138.4, | 339.6, | -134.3, | 36.9,  |
| 9  | 13.7, | 101.5, | 333.6, | -137.6, | 44.4,  | 10 | 13.7, | 154.2, | 341.4, | -148.7, | 47.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -156.5, | 49.9,  | 12 | 13.7, | 248.8, | 328.4, | -159.6, | 51.2,  |
| 13 | 13.7, | 285.7, | 306.8, | -157.8, | 51.0,  | 14 | 13.7, | 314.0, | 275.8, | -151.2, | 49.3,  |
| 15 | 13.7, | 332.7, | 236.4, | -140.0, | 46.0,  | 16 | 13.7, | 341.3, | 189.9, | -124.6, | 41.4,  |
| 17 | 13.7, | 339.6, | 138.4, | -106.1, | 35.4,  | 18 | 13.7, | 333.6, | 101.5, | -95.1,  | 29.2,  |
| 19 | 13.7, | 341.4, | 154.2, | -124.4, | 22.0,  | 20 | 13.7, | 340.1, | 204.2, | -152.0, | 13.5,  |
| 21 | 13.7, | 328.4, | 248.8, | -175.6, | 4.6,   | 22 | 13.7, | 306.8, | 285.7, | -193.9, | -4.4,  |
| 23 | 13.7, | 275.8, | 314.0, | -206.3, | -13.3, | 24 | 13.7, | 236.4, | 332.7, | -212.4, | -21.8, |
| 25 | 13.7, | 189.9, | 341.3, | -212.0, | -29.6, | 26 | 13.7, | 138.4, | 339.6, | -205.2, | -36.9, |
| 27 | 13.7, | 101.5, | 333.6, | -196.0, | -44.4, | 28 | 13.7, | 154.2, | 341.4, | -192.7, | -47.3, |
| 29 | 13.7, | 204.2, | 340.1, | -183.6, | -49.9, | 30 | 13.7, | 248.8, | 328.4, | -168.8, | -51.2, |
| 31 | 13.7, | 285.7, | 306.8, | -149.0, | -51.0, | 32 | 13.7, | 314.0, | 275.8, | -124.6, | -49.3, |
| 33 | 13.7, | 332.7, | 236.4, | -96.4,  | -46.0, | 34 | 13.7, | 341.3, | 189.9, | -65.3,  | -41.4, |
| 35 | 13.7, | 339.6, | 138.4, | -32.2,  | -35.4, | 36 | 13.7, | 333.6, | 101.5, | -6.3,   | -29.2, |

SOURCE ID: IDLE14

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -30.6,  | -18.2, | 2   | 13.7, | 340.1, | 204.2, | -53.8,  | -9.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -75.3,  | -1.3,  | 4   | 13.7, | 306.8, | 285.7, | -94.5,  | 7.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -110.8, | 15.7,  | 6   | 13.7, | 236.4, | 332.7, | -123.8, | 23.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -133.1, | 30.8,  | 8   | 13.7, | 138.4, | 339.6, | -138.2, | 37.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -141.5, | 44.2,  | 10  | 13.7, | 154.2, | 341.4, | -152.6, | 46.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -160.2, | 48.4,  | 12  | 13.7, | 248.8, | 328.4, | -162.9, | 49.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -160.7, | 48.4,  | 14  | 13.7, | 314.0, | 275.8, | -153.6, | 46.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -141.8, | 42.5,  | 16  | 13.7, | 341.3, | 189.9, | -125.7, | 37.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -106.6, | 31.5,  | 18  | 13.7, | 333.6, | 101.5, | -94.9,  | 25.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -123.5, | 18.2,  | 20  | 13.7, | 340.1, | 204.2, | -150.5, | 9.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -173.5, | 1.3,   | 22  | 13.7, | 306.8, | 285.7, | -191.2, | -7.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -203.1, | -15.7, | 24  | 13.7, | 236.4, | 332.7, | -208.9, | -23.6, |
| 25  | 13.7, | 189.9, | 341.3, | -208.3, | -30.8, | 26  | 13.7, | 138.4, | 339.6, | -201.3, | -37.4, |
| 27  | 13.7, | 101.5, | 333.6, | -192.1, | -44.2, | 28  | 13.7, | 154.2, | 341.4, | -188.9, | -46.5, |
| 29  | 13.7, | 204.2, | 340.1, | -179.9, | -48.4, | 30  | 13.7, | 248.8, | 328.4, | -165.5, | -49.1, |
| 31  | 13.7, | 285.7, | 306.8, | -146.1, | -48.4, | 32  | 13.7, | 314.0, | 275.8, | -122.2, | -46.1, |
| 33  | 13.7, | 332.7, | 236.4, | -94.6,  | -42.5, | 34  | 13.7, | 341.3, | 189.9, | -64.1,  | -37.6, |
| 35  | 13.7, | 339.6, | 138.4, | -31.7,  | -31.5, | 36  | 13.7, | 333.6, | 101.5, | -6.5,   | -25.2, |

SOURCE ID: IDLE15

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -31.4,  | -14.2, | 2   | 13.7, | 340.1, | 204.2, | -55.2,  | -6.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -77.3,  | 2.1,   | 4   | 13.7, | 306.8, | 285.7, | -97.1,  | 10.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -114.0, | 18.2,  | 6   | 13.7, | 236.4, | 332.7, | -127.3, | 25.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -136.8, | 32.1,  | 8   | 13.7, | 138.4, | 339.6, | -142.2, | 38.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -145.5, | 44.1,  | 10  | 13.7, | 154.2, | 341.4, | -156.5, | 45.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -163.9, | 46.9,  | 12  | 13.7, | 248.8, | 328.4, | -166.3, | 47.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -163.7, | 45.7,  | 14  | 13.7, | 314.0, | 275.8, | -156.1, | 43.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -143.7, | 39.0,  | 16  | 13.7, | 341.3, | 189.9, | -127.0, | 33.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.2, | 27.6,  | 18  | 13.7, | 333.6, | 101.5, | -94.8,  | 21.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -122.8, | 14.2,  | 20  | 13.7, | 340.1, | 204.2, | -149.1, | 6.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -171.4, | -2.1,  | 22  | 13.7, | 306.8, | 285.7, | -188.6, | -10.3, |
| 23  | 13.7, | 275.8, | 314.0, | -200.0, | -18.2, | 24  | 13.7, | 236.4, | 332.7, | -205.4, | -25.5, |
| 25  | 13.7, | 189.9, | 341.3, | -204.5, | -32.1, | 26  | 13.7, | 138.4, | 339.6, | -197.4, | -38.0, |
| 27  | 13.7, | 101.5, | 333.6, | -188.1, | -44.1, | 28  | 13.7, | 154.2, | 341.4, | -184.9, | -45.7, |
| 29  | 13.7, | 204.2, | 340.1, | -176.2, | -46.9, | 30  | 13.7, | 248.8, | 328.4, | -162.1, | -47.0, |
| 31  | 13.7, | 285.7, | 306.8, | -143.1, | -45.7, | 32  | 13.7, | 314.0, | 275.8, | -119.7, | -43.0, |
| 33  | 13.7, | 332.7, | 236.4, | -92.7,  | -39.0, | 34  | 13.7, | 341.3, | 189.9, | -62.9,  | -33.8, |
| 35  | 13.7, | 339.6, | 138.4, | -31.1,  | -27.6, | 36  | 13.7, | 333.6, | 101.5, | -6.6,   | -21.3, |

SOURCE ID: IDLE16

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -26.5, | -37.6, | 2   | 13.7, | 340.1, | 204.2, | -46.4,  | -28.3, |
| 3   | 13.7, | 328.4, | 248.8, | -64.8, | -18.2, | 4   | 13.7, | 306.8, | 285.7, | -81.2,  | -7.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -95.2, | 3.4,   | 6   | 13.7, | 236.4, | 332.7, | -106.3, | 14.2,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 7  | 13.7, | 189.9, | 341.3, | -114.2, | 24.6,  | 8  | 13.7, | 138.4, | 339.6, | -118.6, | 34.6,  |
| 9  | 13.7, | 101.5, | 333.6, | -121.7, | 44.8,  | 10 | 13.7, | 154.2, | 341.4, | -133.1, | 50.5,  |
| 11 | 13.7, | 204.2, | 340.1, | -141.7, | 55.8,  | 12 | 13.7, | 248.8, | 328.4, | -146.0, | 59.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -145.9, | 61.6,  | 14 | 13.7, | 314.0, | 275.8, | -141.3, | 61.8,  |
| 15 | 13.7, | 332.7, | 236.4, | -132.4, | 60.0,  | 16 | 13.7, | 341.3, | 189.9, | -119.5, | 56.5,  |
| 17 | 13.7, | 339.6, | 138.4, | -103.8, | 51.2,  | 18 | 13.7, | 333.6, | 101.5, | -95.5,  | 45.1,  |
| 19 | 13.7, | 341.4, | 154.2, | -127.6, | 37.6,  | 20 | 13.7, | 340.1, | 204.2, | -157.9, | 28.3,  |
| 21 | 13.7, | 328.4, | 248.8, | -184.0, | 18.2,  | 22 | 13.7, | 306.8, | 285.7, | -204.5, | 7.5,   |
| 23 | 13.7, | 275.8, | 314.0, | -218.8, | -3.4,  | 24 | 13.7, | 236.4, | 332.7, | -226.4, | -14.2, |
| 25 | 13.7, | 189.9, | 341.3, | -227.1, | -24.6, | 26 | 13.7, | 138.4, | 339.6, | -221.0, | -34.6, |
| 27 | 13.7, | 101.5, | 333.6, | -211.9, | -44.8, | 28 | 13.7, | 154.2, | 341.4, | -208.3, | -50.5, |
| 29 | 13.7, | 204.2, | 340.1, | -198.4, | -55.8, | 30 | 13.7, | 248.8, | 328.4, | -182.4, | -59.6, |
| 31 | 13.7, | 285.7, | 306.8, | -160.9, | -61.6, | 32 | 13.7, | 314.0, | 275.8, | -134.5, | -61.8, |
| 33 | 13.7, | 332.7, | 236.4, | -104.0, | -60.0, | 34 | 13.7, | 341.3, | 189.9, | -70.4,  | -56.5, |
| 35 | 13.7, | 339.6, | 138.4, | -34.6,  | -51.2, | 36 | 13.7, | 333.6, | 101.5, | -5.9,   | -45.1, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 46

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -27.4,  | -33.7, | 2   | 13.7, | 340.1, | 204.2, | -47.9,  | -24.6, |
| 3   | 13.7, | 328.4, | 248.8, | -67.0,  | -14.8, | 4   | 13.7, | 306.8, | 285.7, | -84.0,  | -4.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -98.4,  | 5.8,   | 6   | 13.7, | 236.4, | 332.7, | -109.9, | 16.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -118.0, | 25.8,  | 8   | 13.7, | 138.4, | 339.6, | -122.6, | 35.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -125.7, | 44.6,  | 10  | 13.7, | 154.2, | 341.4, | -137.0, | 49.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -145.4, | 54.2,  | 12  | 13.7, | 248.8, | 328.4, | -149.4, | 57.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -148.8, | 58.9,  | 14  | 13.7, | 314.0, | 275.8, | -143.7, | 58.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -134.3, | 56.4,  | 16  | 13.7, | 341.3, | 189.9, | -120.7, | 52.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.3, | 47.2,  | 18  | 13.7, | 333.6, | 101.5, | -95.3,  | 41.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.7, | 33.7,  | 20  | 13.7, | 340.1, | 204.2, | -156.3, | 24.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -181.8, | 14.8,  | 22  | 13.7, | 306.8, | 285.7, | -201.7, | 4.6,   |
| 23  | 13.7, | 275.8, | 314.0, | -215.5, | -5.8,  | 24  | 13.7, | 236.4, | 332.7, | -222.8, | -16.0, |
| 25  | 13.7, | 189.9, | 341.3, | -223.3, | -25.8, | 26  | 13.7, | 138.4, | 339.6, | -217.0, | -35.1, |
| 27  | 13.7, | 101.5, | 333.6, | -207.9, | -44.6, | 28  | 13.7, | 154.2, | 341.4, | -204.4, | -49.6, |
| 29  | 13.7, | 204.2, | 340.1, | -194.7, | -54.2, | 30  | 13.7, | 248.8, | 328.4, | -179.0, | -57.4, |
| 31  | 13.7, | 285.7, | 306.8, | -157.9, | -58.9, | 32  | 13.7, | 314.0, | 275.8, | -132.1, | -58.5, |
| 33  | 13.7, | 332.7, | 236.4, | -102.2, | -56.4, | 34  | 13.7, | 341.3, | 189.9, | -69.2,  | -52.6, |
| 35  | 13.7, | 339.6, | 138.4, | -34.1,  | -47.2, | 36  | 13.7, | 333.6, | 101.5, | -6.1,   | -41.1, |

SOURCE ID: IDLE18

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -28.2,  | -29.9, | 2   | 13.7, | 340.1, | 204.2, | -49.3,  | -21.1, |
| 3   | 13.7, | 328.4, | 248.8, | -68.9,  | -11.5, | 4   | 13.7, | 306.8, | 285.7, | -86.5,  | -1.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -101.4, | 8.2,   | 6   | 13.7, | 236.4, | 332.7, | -113.2, | 17.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -121.6, | 27.0,  | 8   | 13.7, | 138.4, | 339.6, | -126.3, | 35.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -129.5, | 44.6,  | 10  | 13.7, | 154.2, | 341.4, | -140.8, | 48.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -149.0, | 52.8,  | 12  | 13.7, | 248.8, | 328.4, | -152.7, | 55.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -151.7, | 56.4,  | 14  | 13.7, | 314.0, | 275.8, | -146.1, | 55.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -136.1, | 53.1,  | 16  | 13.7, | 341.3, | 189.9, | -122.0, | 49.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.9, | 43.4,  | 18  | 13.7, | 333.6, | 101.5, | -95.3,  | 37.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.0, | 29.9,  | 20  | 13.7, | 340.1, | 204.2, | -155.0, | 21.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -179.8, | 11.5,  | 22  | 13.7, | 306.8, | 285.7, | -199.2, | 1.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -212.6, | -8.2,  | 24  | 13.7, | 236.4, | 332.7, | -219.5, | -17.9, |
| 25  | 13.7, | 189.9, | 341.3, | -219.7, | -27.0, | 26  | 13.7, | 138.4, | 339.6, | -213.2, | -35.7, |
| 27  | 13.7, | 101.5, | 333.6, | -204.1, | -44.6, | 28  | 13.7, | 154.2, | 341.4, | -200.6, | -48.9, |
| 29  | 13.7, | 204.2, | 340.1, | -191.1, | -52.8, | 30  | 13.7, | 248.8, | 328.4, | -175.7, | -55.4, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 31 | 13.7, | 285.7, | 306.8, | -155.1, | -56.4, | 32 | 13.7, | 314.0, | 275.8, | -129.7, | -55.6, |
| 33 | 13.7, | 332.7, | 236.4, | -100.3, | -53.1, | 34 | 13.7, | 341.3, | 189.9, | -67.9,  | -49.0, |
| 35 | 13.7, | 339.6, | 138.4, | -33.5,  | -43.4, | 36 | 13.7, | 333.6, | 101.5, | -6.2,   | -37.3, |

SOURCE ID: IDLE19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.0,  | -26.0, | 2   | 13.7, | 340.1, | 204.2, | -50.8,  | -17.3, |
| 3   | 13.7, | 328.4, | 248.8, | -71.0,  | -8.2,  | 4   | 13.7, | 306.8, | 285.7, | -89.1,  | 1.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -104.5, | 10.7,  | 6   | 13.7, | 236.4, | 332.7, | -116.8, | 19.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -125.4, | 28.3,  | 8   | 13.7, | 138.4, | 339.6, | -130.3, | 36.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -133.5, | 44.4,  | 10  | 13.7, | 154.2, | 341.4, | -144.7, | 48.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -152.7, | 51.3,  | 12  | 13.7, | 248.8, | 328.4, | -156.1, | 53.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -154.7, | 53.7,  | 14  | 13.7, | 314.0, | 275.8, | -148.6, | 52.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -138.0, | 49.6,  | 16  | 13.7, | 341.3, | 189.9, | -123.2, | 45.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -105.4, | 39.5,  | 18  | 13.7, | 333.6, | 101.5, | -95.1,  | 33.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -125.2, | 26.0,  | 20  | 13.7, | 340.1, | 204.2, | -153.5, | 17.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -177.7, | 8.2,   | 22  | 13.7, | 306.8, | 285.7, | -196.6, | -1.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -209.4, | -10.7, | 24  | 13.7, | 236.4, | 332.7, | -215.9, | -19.8, |
| 25  | 13.7, | 189.9, | 341.3, | -215.9, | -28.3, | 26  | 13.7, | 138.4, | 339.6, | -209.3, | -36.3, |
| 27  | 13.7, | 101.5, | 333.6, | -200.1, | -44.4, | 28  | 13.7, | 154.2, | 341.4, | -196.7, | -48.1, |
| 29  | 13.7, | 204.2, | 340.1, | -187.4, | -51.3, | 30  | 13.7, | 248.8, | 328.4, | -172.3, | -53.3, |
| 31  | 13.7, | 285.7, | 306.8, | -152.1, | -53.7, | 32  | 13.7, | 314.0, | 275.8, | -127.2, | -52.4, |
| 33  | 13.7, | 332.7, | 236.4, | -98.4,  | -49.6, | 34  | 13.7, | 341.3, | 189.9, | -66.7,  | -45.2, |
| 35  | 13.7, | 339.6, | 138.4, | -32.9,  | -39.5, | 36  | 13.7, | 333.6, | 101.5, | -6.3,   | -33.3, |

SOURCE ID: IDLE20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -36.1,  | 9.1,   | 2   | 13.7, | 340.1, | 204.2, | -63.9,  | 16.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.8,  | 22.4,  | 4   | 13.7, | 306.8, | 285.7, | -112.9, | 28.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -132.6, | 33.0,  | 6   | 13.7, | 236.4, | 332.7, | -148.3, | 36.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -159.5, | 39.7,  | 8   | 13.7, | 138.4, | 339.6, | -165.8, | 41.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -169.4, | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -179.8, | 41.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -186.1, | 38.2,  | 12  | 13.7, | 248.8, | 328.4, | -186.7, | 34.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -181.6, | 29.9,  | 14  | 13.7, | 314.0, | 275.8, | -170.9, | 24.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -155.1, | 18.1,  | 16  | 13.7, | 341.3, | 189.9, | -134.6, | 11.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.8, | 4.0,   | 18  | 13.7, | 333.6, | 101.5, | -94.2,  | -2.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -118.0, | -9.1,  | 20  | 13.7, | 340.1, | 204.2, | -140.3, | -16.0, |
| 21  | 13.7, | 328.4, | 248.8, | -159.0, | -22.4, | 22  | 13.7, | 306.8, | 285.7, | -172.8, | -28.2, |
| 23  | 13.7, | 275.8, | 314.0, | -181.4, | -33.0, | 24  | 13.7, | 236.4, | 332.7, | -184.4, | -36.9, |
| 25  | 13.7, | 189.9, | 341.3, | -181.9, | -39.7, | 26  | 13.7, | 138.4, | 339.6, | -173.8, | -41.6, |
| 27  | 13.7, | 101.5, | 333.6, | -164.2, | -43.5, | 28  | 13.7, | 154.2, | 341.4, | -161.6, | -41.0, |
| 29  | 13.7, | 204.2, | 340.1, | -154.0, | -38.2, | 30  | 13.7, | 248.8, | 328.4, | -141.8, | -34.6, |
| 31  | 13.7, | 285.7, | 306.8, | -125.2, | -29.9, | 32  | 13.7, | 314.0, | 275.8, | -104.8, | -24.4, |
| 33  | 13.7, | 332.7, | 236.4, | -81.3,  | -18.1, | 34  | 13.7, | 341.3, | 189.9, | -55.3,  | -11.2, |
| 35  | 13.7, | 339.6, | 138.4, | -27.6,  | -4.0,  | 36  | 13.7, | 333.6, | 101.5, | -7.2,   | 2.6,   |

FF

\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1

\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639

09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE21

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -37.0,  | 13.0, | 2   | 13.7, | 340.1, | 204.2, | -65.4,  | 19.7, |
| 3   | 13.7, | 328.4, | 248.8, | -91.9,  | 25.8, | 4   | 13.7, | 306.8, | 285.7, | -115.6, | 31.1, |
| 5   | 13.7, | 275.8, | 314.0, | -135.7, | 35.4, | 6   | 13.7, | 236.4, | 332.7, | -151.8, | 38.7, |
| 7   | 13.7, | 189.9, | 341.3, | -163.2, | 40.8, | 8   | 13.7, | 138.4, | 339.6, | -169.7, | 42.1, |
| 9   | 13.7, | 101.5, | 333.6, | -173.3, | 43.3, | 10  | 13.7, | 154.2, | 341.4, | -183.7, | 40.1, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -189.7, | 36.7,  | 12 | 13.7, | 248.8, | 328.4, | -190.0, | 32.5,  |
| 13 | 13.7, | 285.7, | 306.8, | -184.5, | 27.3,  | 14 | 13.7, | 314.0, | 275.8, | -173.3, | 21.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -157.0, | 14.6,  | 16 | 13.7, | 341.3, | 189.9, | -135.8, | 7.5,   |
| 17 | 13.7, | 339.6, | 138.4, | -111.3, | 0.1,   | 18 | 13.7, | 333.6, | 101.5, | -94.0,  | -6.5,  |
| 19 | 13.7, | 341.4, | 154.2, | -117.2, | -13.0, | 20 | 13.7, | 340.1, | 204.2, | -138.8, | -19.7, |
| 21 | 13.7, | 328.4, | 248.8, | -156.9, | -25.8, | 22 | 13.7, | 306.8, | 285.7, | -170.1, | -31.1, |
| 23 | 13.7, | 275.8, | 314.0, | -178.2, | -35.4, | 24 | 13.7, | 236.4, | 332.7, | -180.9, | -38.7, |
| 25 | 13.7, | 189.9, | 341.3, | -178.1, | -40.8, | 26 | 13.7, | 138.4, | 339.6, | -169.9, | -42.1, |
| 27 | 13.7, | 101.5, | 333.6, | -160.3, | -43.3, | 28 | 13.7, | 154.2, | 341.4, | -157.7, | -40.1, |
| 29 | 13.7, | 204.2, | 340.1, | -150.4, | -36.7, | 30 | 13.7, | 248.8, | 328.4, | -138.4, | -32.5, |
| 31 | 13.7, | 285.7, | 306.8, | -122.3, | -27.3, | 32 | 13.7, | 314.0, | 275.8, | -102.4, | -21.2, |
| 33 | 13.7, | 332.7, | 236.4, | -79.5,  | -14.6, | 34 | 13.7, | 341.3, | 189.9, | -54.1,  | -7.5,  |
| 35 | 13.7, | 339.6, | 138.4, | -27.1,  | -0.1,  | 36 | 13.7, | 333.6, | 101.5, | -7.4,   | 6.5,   |

SOURCE ID: IDLE22

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -37.8,  | 16.9,  | 2   | 13.7, | 340.1, | 204.2, | -66.9,  | 23.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.0,  | 29.2,  | 4   | 13.7, | 306.8, | 285.7, | -118.2, | 34.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -138.9, | 37.9,  | 6   | 13.7, | 236.4, | 332.7, | -155.3, | 40.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.0, | 42.1,  | 8   | 13.7, | 138.4, | 339.6, | -173.6, | 42.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -177.3, | 43.2,  | 10  | 13.7, | 154.2, | 341.4, | -187.6, | 39.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -193.4, | 35.2,  | 12  | 13.7, | 248.8, | 328.4, | -193.4, | 30.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -187.5, | 24.6,  | 14  | 13.7, | 314.0, | 275.8, | -175.8, | 18.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -158.9, | 11.1,  | 16  | 13.7, | 341.3, | 189.9, | -137.1, | 3.7,   |
| 17  | 13.7, | 339.6, | 138.4, | -111.9, | -3.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.0,  | -10.5, |
| 19  | 13.7, | 341.4, | 154.2, | -116.4, | -16.9, | 20  | 13.7, | 340.1, | 204.2, | -137.4, | -23.4, |
| 21  | 13.7, | 328.4, | 248.8, | -154.8, | -29.2, | 22  | 13.7, | 306.8, | 285.7, | -167.5, | -34.1, |
| 23  | 13.7, | 275.8, | 314.0, | -175.1, | -37.9, | 24  | 13.7, | 236.4, | 332.7, | -177.4, | -40.6, |
| 25  | 13.7, | 189.9, | 341.3, | -174.3, | -42.1, | 26  | 13.7, | 138.4, | 339.6, | -165.9, | -42.7, |
| 27  | 13.7, | 101.5, | 333.6, | -156.3, | -43.2, | 28  | 13.7, | 154.2, | 341.4, | -153.8, | -39.3, |
| 29  | 13.7, | 204.2, | 340.1, | -146.6, | -35.2, | 30  | 13.7, | 248.8, | 328.4, | -135.0, | -30.4, |
| 31  | 13.7, | 285.7, | 306.8, | -119.3, | -24.6, | 32  | 13.7, | 314.0, | 275.8, | -99.9,  | -18.1, |
| 33  | 13.7, | 332.7, | 236.4, | -77.6,  | -11.1, | 34  | 13.7, | 341.3, | 189.9, | -52.8,  | -3.7,  |
| 35  | 13.7, | 339.6, | 138.4, | -26.5,  | 3.8,   | 36  | 13.7, | 333.6, | 101.5, | -7.5,   | 10.5,  |

SOURCE ID: IDLE23

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -32.9,  | -6.5,  | 2   | 13.7, | 340.1, | 204.2, | -58.0,  | 1.2,   |
| 3   | 13.7, | 328.4, | 248.8, | -81.4,  | 8.9,   | 4   | 13.7, | 306.8, | 285.7, | -102.3, | 16.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -120.1, | 23.2,  | 6   | 13.7, | 236.4, | 332.7, | -134.3, | 29.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -144.3, | 34.6,  | 8   | 13.7, | 138.4, | 339.6, | -150.0, | 39.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -153.5, | 43.9,  | 10  | 13.7, | 154.2, | 341.4, | -164.2, | 44.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -171.3, | 44.1,  | 12  | 13.7, | 248.8, | 328.4, | -173.1, | 42.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -169.6, | 40.5,  | 14  | 13.7, | 314.0, | 275.8, | -161.1, | 36.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -147.6, | 32.1,  | 16  | 13.7, | 341.3, | 189.9, | -129.6, | 26.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -108.4, | 19.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.7,  | 13.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.2, | 6.5,   | 20  | 13.7, | 340.1, | 204.2, | -146.2, | -1.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -167.3, | -8.9,  | 22  | 13.7, | 306.8, | 285.7, | -183.4, | -16.3, |
| 23  | 13.7, | 275.8, | 314.0, | -193.8, | -23.2, | 24  | 13.7, | 236.4, | 332.7, | -198.4, | -29.4, |
| 25  | 13.7, | 189.9, | 341.3, | -197.0, | -34.6, | 26  | 13.7, | 138.4, | 339.6, | -189.6, | -39.3, |
| 27  | 13.7, | 101.5, | 333.6, | -180.1, | -44.0, | 28  | 13.7, | 154.2, | 341.4, | -177.2, | -44.2, |
| 29  | 13.7, | 204.2, | 340.1, | -168.8, | -44.1, | 30  | 13.7, | 248.8, | 328.4, | -155.3, | -42.9, |
| 31  | 13.7, | 285.7, | 306.8, | -137.1, | -40.5, | 32  | 13.7, | 314.0, | 275.8, | -114.7, | -36.9, |
| 33  | 13.7, | 332.7, | 236.4, | -88.9,  | -32.1, | 34  | 13.7, | 341.3, | 189.9, | -60.3,  | -26.3, |
| 35  | 13.7, | 339.6, | 138.4, | -29.9,  | -19.8, | 36  | 13.7, | 333.6, | 101.5, | -6.8,   | -13.3, |

SOURCE ID: IDLE24

|     |       |        |        |         |       |     |       |        |        |         |       |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
| 1   | 13.7, | 341.4, | 154.2, | -33.8,  | -2.5, | 2   | 13.7, | 340.1, | 204.2, | -59.6,  | 4.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -83.6,  | 12.3, | 4   | 13.7, | 306.8, | 285.7, | -105.1, | 19.2, |
| 5   | 13.7, | 275.8, | 314.0, | -123.3, | 25.6, | 6   | 13.7, | 236.4, | 332.7, | -137.9, | 31.2, |
| 7   | 13.7, | 189.9, | 341.3, | -148.2, | 35.8, | 8   | 13.7, | 138.4, | 339.6, | -154.0, | 39.8, |
| 9   | 13.7, | 101.5, | 333.6, | -157.5, | 43.7, | 10  | 13.7, | 154.2, | 341.4, | -168.2, | 43.2, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -175.0, | 42.5,  | 12 | 13.7, | 248.8, | 328.4, | -176.5, | 40.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -172.6, | 37.8,  | 14 | 13.7, | 314.0, | 275.8, | -163.5, | 33.6,  |
| 15 | 13.7, | 332.7, | 236.4, | -149.4, | 28.5,  | 16 | 13.7, | 341.3, | 189.9, | -130.8, | 22.5,  |
| 17 | 13.7, | 339.6, | 138.4, | -108.9, | 15.8,  | 18 | 13.7, | 333.6, | 101.5, | -94.5,  | 9.3,   |
| 19 | 13.7, | 341.4, | 154.2, | -120.3, | 2.5,   | 20 | 13.7, | 340.1, | 204.2, | -144.6, | -4.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -165.1, | -12.3, | 22 | 13.7, | 306.8, | 285.7, | -180.6, | -19.2, |
| 23 | 13.7, | 275.8, | 314.0, | -190.6, | -25.6, | 24 | 13.7, | 236.4, | 332.7, | -194.8, | -31.2, |
| 25 | 13.7, | 189.9, | 341.3, | -193.1, | -35.8, | 26 | 13.7, | 138.4, | 339.6, | -185.5, | -39.8, |
| 27 | 13.7, | 101.5, | 333.6, | -176.1, | -43.7, | 28 | 13.7, | 154.2, | 341.4, | -173.2, | -43.2, |
| 29 | 13.7, | 204.2, | 340.1, | -165.1, | -42.5, | 30 | 13.7, | 248.8, | 328.4, | -151.9, | -40.7, |
| 31 | 13.7, | 285.7, | 306.8, | -134.2, | -37.8, | 32 | 13.7, | 314.0, | 275.8, | -112.3, | -33.6, |
| 33 | 13.7, | 332.7, | 236.4, | -87.0,  | -28.5, | 34 | 13.7, | 341.3, | 189.9, | -59.1,  | -22.5, |
| 35 | 13.7, | 339.6, | 138.4, | -29.4,  | -15.8, | 36 | 13.7, | 333.6, | 101.5, | -7.0,   | -9.3,  |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

11:04:36

PAGE 48

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -34.5,  | 1.2,   | 2   | 13.7, | 340.1, | 204.2, | -61.0,  | 8.5,   |
| 3   | 13.7, | 328.4, | 248.8, | -85.6,  | 15.6,  | 4   | 13.7, | 306.8, | 285.7, | -107.6, | 22.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -126.3, | 28.0,  | 6   | 13.7, | 236.4, | 332.7, | -141.2, | 33.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -151.8, | 37.1,  | 8   | 13.7, | 138.4, | 339.6, | -157.8, | 40.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -161.3, | 43.7,  | 10  | 13.7, | 154.2, | 341.4, | -171.9, | 42.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -178.5, | 41.1,  | 12  | 13.7, | 248.8, | 328.4, | -179.7, | 38.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -175.5, | 35.3,  | 14  | 13.7, | 314.0, | 275.8, | -165.9, | 30.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -151.3, | 25.2,  | 16  | 13.7, | 341.3, | 189.9, | -132.0, | 18.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -109.5, | 12.0,  | 18  | 13.7, | 333.6, | 101.5, | -94.4,  | 5.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -119.6, | -1.2,  | 20  | 13.7, | 340.1, | 204.2, | -143.3, | -8.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -163.2, | -15.6, | 22  | 13.7, | 306.8, | 285.7, | -178.1, | -22.1, |
| 23  | 13.7, | 275.8, | 314.0, | -187.7, | -28.0, | 24  | 13.7, | 236.4, | 332.7, | -191.5, | -33.0, |
| 25  | 13.7, | 189.9, | 341.3, | -189.5, | -37.1, | 26  | 13.7, | 138.4, | 339.6, | -181.8, | -40.4, |
| 27  | 13.7, | 101.5, | 333.6, | -172.3, | -43.7, | 28  | 13.7, | 154.2, | 341.4, | -169.5, | -42.5, |
| 29  | 13.7, | 204.2, | 340.1, | -161.5, | -41.1, | 30  | 13.7, | 248.8, | 328.4, | -148.7, | -38.8, |
| 31  | 13.7, | 285.7, | 306.8, | -131.3, | -35.3, | 32  | 13.7, | 314.0, | 275.8, | -109.9, | -30.7, |
| 33  | 13.7, | 332.7, | 236.4, | -85.2,  | -25.2, | 34  | 13.7, | 341.3, | 189.9, | -57.9,  | -18.9, |
| 35  | 13.7, | 339.6, | 138.4, | -28.8,  | -12.0, | 36  | 13.7, | 333.6, | 101.5, | -7.0,   | -5.5,  |

SOURCE ID: IDLE26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -35.4,  | 5.1,   | 2   | 13.7, | 340.1, | 204.2, | -62.5,  | 12.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -87.7,  | 18.9,  | 4   | 13.7, | 306.8, | 285.7, | -110.2, | 25.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -129.5, | 30.5,  | 6   | 13.7, | 236.4, | 332.7, | -144.7, | 34.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -155.6, | 38.3,  | 8   | 13.7, | 138.4, | 339.6, | -161.7, | 40.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -165.3, | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -175.8, | 41.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -182.3, | 39.6,  | 12  | 13.7, | 248.8, | 328.4, | -183.1, | 36.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -178.5, | 32.6,  | 14  | 13.7, | 314.0, | 275.8, | -168.4, | 27.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -153.1, | 21.6,  | 16  | 13.7, | 341.3, | 189.9, | -133.3, | 15.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.1, | 8.0,   | 18  | 13.7, | 333.6, | 101.5, | -94.3,  | 1.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -118.8, | -5.1,  | 20  | 13.7, | 340.1, | 204.2, | -141.8, | -12.2, |
| 21  | 13.7, | 328.4, | 248.8, | -161.1, | -18.9, | 22  | 13.7, | 306.8, | 285.7, | -175.5, | -25.1, |
| 23  | 13.7, | 275.8, | 314.0, | -184.5, | -30.5, | 24  | 13.7, | 236.4, | 332.7, | -188.0, | -34.9, |
| 25  | 13.7, | 189.9, | 341.3, | -185.7, | -38.3, | 26  | 13.7, | 138.4, | 339.6, | -177.8, | -40.9, |
| 27  | 13.7, | 101.5, | 333.6, | -168.3, | -43.5, | 28  | 13.7, | 154.2, | 341.4, | -165.6, | -41.7, |
| 29  | 13.7, | 204.2, | 340.1, | -157.8, | -39.6, | 30  | 13.7, | 248.8, | 328.4, | -145.3, | -36.7, |
| 31  | 13.7, | 285.7, | 306.8, | -128.3, | -32.6, | 32  | 13.7, | 314.0, | 275.8, | -107.4, | -27.5, |
| 33  | 13.7, | 332.7, | 236.4, | -83.3,  | -21.6, | 34  | 13.7, | 341.3, | 189.9, | -56.6,  | -15.1, |

|    |       |        |        |        |       |    |       |        |        |       |       |
|----|-------|--------|--------|--------|-------|----|-------|--------|--------|-------|-------|
| 35 | 13.7, | 339.6, | 138.4, | -28.2, | -8.0, | 36 | 13.7, | 333.6, | 101.5, | -7.2, | -1.5, |
|----|-------|--------|--------|--------|-------|----|-------|--------|--------|-------|-------|

SOURCE ID: IDLE27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -42.3,  | 40.0,  | 2   | 13.7, | 340.1, | 204.2, | -75.4,  | 45.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -106.2, | 49.3,  | 4   | 13.7, | 306.8, | 285.7, | -133.7, | 51.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -157.2, | 52.7,  | 6   | 13.7, | 236.4, | 332.7, | -175.9, | 52.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -189.3, | 49.7,  | 8   | 13.7, | 138.4, | 339.6, | -196.9, | 46.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -200.8, | 42.7,  | 10  | 13.7, | 154.2, | 341.4, | -210.7, | 34.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -215.4, | 26.7,  | 12  | 13.7, | 248.8, | 328.4, | -213.5, | 18.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -205.2, | 9.1,   | 14  | 13.7, | 314.0, | 275.8, | -190.6, | -0.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -170.2, | -9.6,  | 16  | 13.7, | 341.3, | 189.9, | -144.6, | -18.6, |
| 17  | 13.7, | 339.6, | 138.4, | -115.5, | -27.1, | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | -34.0, |
| 19  | 13.7, | 341.4, | 154.2, | -111.8, | -40.0, | 20  | 13.7, | 340.1, | 204.2, | -128.8, | -45.3, |
| 21  | 13.7, | 328.4, | 248.8, | -142.6, | -49.3, | 22  | 13.7, | 306.8, | 285.7, | -152.0, | -51.8, |
| 23  | 13.7, | 275.8, | 314.0, | -156.8, | -52.7, | 24  | 13.7, | 236.4, | 332.7, | -156.8, | -52.0, |
| 25  | 13.7, | 189.9, | 341.3, | -152.0, | -49.7, | 26  | 13.7, | 138.4, | 339.6, | -142.7, | -46.3, |
| 27  | 13.7, | 101.5, | 333.6, | -132.8, | -42.7, | 28  | 13.7, | 154.2, | 341.4, | -130.7, | -34.7, |
| 29  | 13.7, | 204.2, | 340.1, | -124.7, | -26.7, | 30  | 13.7, | 248.8, | 328.4, | -114.9, | -18.2, |
| 31  | 13.7, | 285.7, | 306.8, | -101.6, | -9.1,  | 32  | 13.7, | 314.0, | 275.8, | -85.2,  | 0.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -66.2,  | 9.6,   | 34  | 13.7, | 341.3, | 189.9, | -45.3,  | 18.6,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.9,  | 27.1,  | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | 34.0,  |

SOURCE ID: IDLE28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -43.2,  | 43.8,  | 2   | 13.7, | 340.1, | 204.2, | -76.9,  | 49.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -108.3, | 52.6,  | 4   | 13.7, | 306.8, | 285.7, | -136.4, | 54.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -160.3, | 55.1,  | 6   | 13.7, | 236.4, | 332.7, | -179.4, | 53.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.0, | 50.9,  | 8   | 13.7, | 138.4, | 339.6, | -200.8, | 46.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -204.8, | 42.5,  | 10  | 13.7, | 154.2, | 341.4, | -214.5, | 33.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -219.0, | 25.2,  | 12  | 13.7, | 248.8, | 328.4, | -216.8, | 16.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -208.1, | 6.5,   | 14  | 13.7, | 314.0, | 275.8, | -193.0, | -3.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -172.0, | -13.1, | 16  | 13.7, | 341.3, | 189.9, | -145.8, | -22.4, |
| 17  | 13.7, | 339.6, | 138.4, | -116.0, | -31.0, | 18  | 13.7, | 333.6, | 101.5, | -93.3,  | -38.0, |
| 19  | 13.7, | 341.4, | 154.2, | -110.9, | -43.8, | 20  | 13.7, | 340.1, | 204.2, | -127.3, | -49.0, |
| 21  | 13.7, | 328.4, | 248.8, | -140.4, | -52.6, | 22  | 13.7, | 306.8, | 285.7, | -149.3, | -54.7, |
| 23  | 13.7, | 275.8, | 314.0, | -153.6, | -55.1, | 24  | 13.7, | 236.4, | 332.7, | -153.3, | -53.8, |
| 25  | 13.7, | 189.9, | 341.3, | -148.3, | -50.9, | 26  | 13.7, | 138.4, | 339.6, | -138.8, | -46.8, |
| 27  | 13.7, | 101.5, | 333.6, | -128.8, | -42.5, | 28  | 13.7, | 154.2, | 341.4, | -126.9, | -33.9, |
| 29  | 13.7, | 204.2, | 340.1, | -121.1, | -25.2, | 30  | 13.7, | 248.8, | 328.4, | -111.6, | -16.1, |
| 31  | 13.7, | 285.7, | 306.8, | -98.7,  | -6.5,  | 32  | 13.7, | 314.0, | 275.8, | -82.8,  | 3.4,   |
| 33  | 13.7, | 332.7, | 236.4, | -64.4,  | 13.1,  | 34  | 13.7, | 341.3, | 189.9, | -44.1,  | 22.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.4,  | 31.0,  | 36  | 13.7, | 333.6, | 101.5, | -8.2,   | 38.0,  |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
Spreckels\15639 Ops HRA\1 \*\*\*  
\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
09/20/24  
\*\*\* 11:04:36

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE29

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -44.0,  | 47.8, | 2   | 13.7, | 340.1, | 204.2, | -78.4,  | 52.7, |
| 3   | 13.7, | 328.4, | 248.8, | -110.4, | 56.0, | 4   | 13.7, | 306.8, | 285.7, | -139.0, | 57.7, |
| 5   | 13.7, | 275.8, | 314.0, | -163.5, | 57.6, | 6   | 13.7, | 236.4, | 332.7, | -182.9, | 55.7, |
| 7   | 13.7, | 189.9, | 341.3, | -196.8, | 52.1, | 8   | 13.7, | 138.4, | 339.6, | -204.8, | 47.4, |
| 9   | 13.7, | 101.5, | 333.6, | -208.8, | 42.4, | 10  | 13.7, | 154.2, | 341.4, | -218.5, | 33.1, |
| 11  | 13.7, | 204.2, | 340.1, | -222.7, | 23.7, | 12  | 13.7, | 248.8, | 328.4, | -220.2, | 14.0, |
| 13  | 13.7, | 285.7, | 306.8, | -211.1, | 3.8,  | 14  | 13.7, | 314.0, | 275.8, | -195.5, | -6.5, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 15 | 13.7, | 332.7, | 236.4, | -173.9, | -16.6, | 16 | 13.7, | 341.3, | 189.9, | -147.1, | -26.2, |
| 17 | 13.7, | 339.6, | 138.4, | -116.6, | -35.0, | 18 | 13.7, | 333.6, | 101.5, | -93.2,  | -42.0, |
| 19 | 13.7, | 341.4, | 154.2, | -110.2, | -47.8, | 20 | 13.7, | 340.1, | 204.2, | -125.9, | -52.7, |
| 21 | 13.7, | 328.4, | 248.8, | -138.4, | -56.0, | 22 | 13.7, | 306.8, | 285.7, | -146.7, | -57.7, |
| 23 | 13.7, | 275.8, | 314.0, | -150.5, | -57.6, | 24 | 13.7, | 236.4, | 332.7, | -149.8, | -55.7, |
| 25 | 13.7, | 189.9, | 341.3, | -144.5, | -52.1, | 26 | 13.7, | 138.4, | 339.6, | -134.8, | -47.4, |
| 27 | 13.7, | 101.5, | 333.6, | -124.8, | -42.4, | 28 | 13.7, | 154.2, | 341.4, | -122.9, | -33.1, |
| 29 | 13.7, | 204.2, | 340.1, | -117.3, | -23.7, | 30 | 13.7, | 248.8, | 328.4, | -108.1, | -14.0, |
| 31 | 13.7, | 285.7, | 306.8, | -95.7,  | -3.8,  | 32 | 13.7, | 314.0, | 275.8, | -80.3,  | 6.5,   |
| 33 | 13.7, | 332.7, | 236.4, | -62.5,  | 16.6,  | 34 | 13.7, | 341.3, | 189.9, | -42.8,  | 26.2,  |
| 35 | 13.7, | 339.6, | 138.4, | -21.8,  | 35.0,  | 36 | 13.7, | 333.6, | 101.5, | -8.3,   | 42.0,  |

SOURCE ID: IDLE30

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -39.1,  | 24.4,  | 2   | 13.7, | 340.1, | 204.2, | -69.5,  | 30.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -97.8,  | 35.7,  | 4   | 13.7, | 306.8, | 285.7, | -123.1, | 39.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -144.7, | 42.8,  | 6   | 13.7, | 236.4, | 332.7, | -161.9, | 44.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -174.2, | 44.7,  | 8   | 13.7, | 138.4, | 339.6, | -181.1, | 44.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -184.9, | 43.2,  | 10  | 13.7, | 154.2, | 341.4, | -195.1, | 37.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -200.6, | 32.6,  | 12  | 13.7, | 248.8, | 328.4, | -199.9, | 26.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -193.2, | 19.7,  | 14  | 13.7, | 314.0, | 275.8, | -180.7, | 12.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -162.6, | 4.5,   | 16  | 13.7, | 341.3, | 189.9, | -139.6, | -3.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -113.1, | -11.3, | 18  | 13.7, | 333.6, | 101.5, | -93.9,  | -18.1, |
| 19  | 13.7, | 341.4, | 154.2, | -115.0, | -24.4, | 20  | 13.7, | 340.1, | 204.2, | -134.7, | -30.5, |
| 21  | 13.7, | 328.4, | 248.8, | -150.9, | -35.7, | 22  | 13.7, | 306.8, | 285.7, | -162.6, | -39.9, |
| 23  | 13.7, | 275.8, | 314.0, | -169.2, | -42.8, | 24  | 13.7, | 236.4, | 332.7, | -170.8, | -44.4, |
| 25  | 13.7, | 189.9, | 341.3, | -167.2, | -44.7, | 26  | 13.7, | 138.4, | 339.6, | -158.4, | -44.0, |
| 27  | 13.7, | 101.5, | 333.6, | -148.7, | -43.2, | 28  | 13.7, | 154.2, | 341.4, | -146.3, | -37.9, |
| 29  | 13.7, | 204.2, | 340.1, | -139.5, | -32.6, | 30  | 13.7, | 248.8, | 328.4, | -128.5, | -26.6, |
| 31  | 13.7, | 285.7, | 306.8, | -113.5, | -19.7, | 32  | 13.7, | 314.0, | 275.8, | -95.1,  | -12.3, |
| 33  | 13.7, | 332.7, | 236.4, | -73.8,  | -4.5,  | 34  | 13.7, | 341.3, | 189.9, | -50.3,  | 3.5,   |
| 35  | 13.7, | 339.6, | 138.4, | -25.2,  | 11.3,  | 36  | 13.7, | 333.6, | 101.5, | -7.5,   | 18.1,  |

SOURCE ID: IDLE31

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -40.1,  | 28.3,  | 2   | 13.7, | 340.1, | 204.2, | -71.1,  | 34.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -100.0, | 39.1,  | 4   | 13.7, | 306.8, | 285.7, | -125.9, | 42.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -148.0, | 45.2,  | 6   | 13.7, | 236.4, | 332.7, | -165.5, | 46.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -178.0, | 45.8,  | 8   | 13.7, | 138.4, | 339.6, | -185.1, | 44.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -188.9, | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -199.0, | 37.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -204.3, | 31.0,  | 12  | 13.7, | 248.8, | 328.4, | -203.3, | 24.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -196.2, | 16.9,  | 14  | 13.7, | 314.0, | 275.8, | -183.1, | 9.0,   |
| 15  | 13.7, | 332.7, | 236.4, | -164.4, | 0.8,   | 16  | 13.7, | 341.3, | 189.9, | -140.8, | -7.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -113.6, | -15.4, | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | -22.2, |
| 19  | 13.7, | 341.4, | 154.2, | -114.1, | -28.3, | 20  | 13.7, | 340.1, | 204.2, | -133.1, | -34.2, |
| 21  | 13.7, | 328.4, | 248.8, | -148.7, | -39.1, | 22  | 13.7, | 306.8, | 285.7, | -159.8, | -42.8, |
| 23  | 13.7, | 275.8, | 314.0, | -166.0, | -45.2, | 24  | 13.7, | 236.4, | 332.7, | -167.2, | -46.2, |
| 25  | 13.7, | 189.9, | 341.3, | -163.3, | -45.8, | 26  | 13.7, | 138.4, | 339.6, | -154.4, | -44.4, |
| 27  | 13.7, | 101.5, | 333.6, | -144.7, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -142.4, | -37.0, |
| 29  | 13.7, | 204.2, | 340.1, | -135.8, | -31.0, | 30  | 13.7, | 248.8, | 328.4, | -125.1, | -24.3, |
| 31  | 13.7, | 285.7, | 306.8, | -110.6, | -16.9, | 32  | 13.7, | 314.0, | 275.8, | -92.7,  | -9.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -72.0,  | -0.8,  | 34  | 13.7, | 341.3, | 189.9, | -49.1,  | 7.4,   |
| 35  | 13.7, | 339.6, | 138.4, | -24.7,  | 15.4,  | 36  | 13.7, | 333.6, | 101.5, | -7.8,   | 22.2,  |

SOURCE ID: IDLE32

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -40.8,  | 32.1, | 2   | 13.7, | 340.1, | 204.2, | -72.5,  | 37.8, |
| 3   | 13.7, | 328.4, | 248.8, | -102.0, | 42.4, | 4   | 13.7, | 306.8, | 285.7, | -128.4, | 45.7, |
| 5   | 13.7, | 275.8, | 314.0, | -150.9, | 47.6, | 6   | 13.7, | 236.4, | 332.7, | -168.8, | 48.1, |
| 7   | 13.7, | 189.9, | 341.3, | -181.6, | 47.1, | 8   | 13.7, | 138.4, | 339.6, | -188.9, | 45.1, |
| 9   | 13.7, | 101.5, | 333.6, | -192.8, | 42.9, | 10  | 13.7, | 154.2, | 341.4, | -202.8, | 36.3, |
| 11  | 13.7, | 204.2, | 340.1, | -207.8, | 29.7, | 12  | 13.7, | 248.8, | 328.4, | -206.6, | 22.4, |
| 13  | 13.7, | 285.7, | 306.8, | -199.1, | 14.5, | 14  | 13.7, | 314.0, | 275.8, | -185.5, | 6.1,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 15 | 13.7, | 332.7, | 236.4, | -166.3, | -2.5,  | 16 | 13.7, | 341.3, | 189.9, | -142.1, | -11.0, |
| 17 | 13.7, | 339.6, | 138.4, | -114.2, | -19.1, | 18 | 13.7, | 333.6, | 101.5, | -93.6,  | -26.0, |
| 19 | 13.7, | 341.4, | 154.2, | -113.4, | -32.1, | 20 | 13.7, | 340.1, | 204.2, | -131.8, | -37.8, |
| 21 | 13.7, | 328.4, | 248.8, | -146.8, | -42.4, | 22 | 13.7, | 306.8, | 285.7, | -157.3, | -45.7, |
| 23 | 13.7, | 275.8, | 314.0, | -163.1, | -47.6, | 24 | 13.7, | 236.4, | 332.7, | -163.9, | -48.1, |
| 25 | 13.7, | 189.9, | 341.3, | -159.7, | -47.1, | 26 | 13.7, | 138.4, | 339.6, | -150.7, | -45.1, |
| 27 | 13.7, | 101.5, | 333.6, | -140.8, | -42.9, | 28 | 13.7, | 154.2, | 341.4, | -138.6, | -36.3, |
| 29 | 13.7, | 204.2, | 340.1, | -132.2, | -29.7, | 30 | 13.7, | 248.8, | 328.4, | -121.8, | -22.4, |
| 31 | 13.7, | 285.7, | 306.8, | -107.7, | -14.5, | 32 | 13.7, | 314.0, | 275.8, | -90.3,  | -6.1,  |
| 33 | 13.7, | 332.7, | 236.4, | -70.1,  | 2.5,   | 34 | 13.7, | 341.3, | 189.9, | -47.8,  | 11.0,  |
| 35 | 13.7, | 339.6, | 138.4, | -24.1,  | 19.1,  | 36 | 13.7, | 333.6, | 101.5, | -7.8,   | 26.0,  |

```

*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
***

```

11:04:36

PAGE 50

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -41.6,  | 36.0,  | 2   | 13.7, | 340.1, | 204.2, | -74.0,  | 41.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -104.1, | 45.8,  | 4   | 13.7, | 306.8, | 285.7, | -131.1, | 48.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -154.0, | 50.1,  | 6   | 13.7, | 236.4, | 332.7, | -172.4, | 50.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -185.4, | 48.3,  | 8   | 13.7, | 138.4, | 339.6, | -192.9, | 45.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -196.7, | 42.8,  | 10  | 13.7, | 154.2, | 341.4, | -206.7, | 35.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -211.5, | 28.2,  | 12  | 13.7, | 248.8, | 328.4, | -210.0, | 20.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -202.1, | 11.8,  | 14  | 13.7, | 314.0, | 275.8, | -188.0, | 2.9,   |
| 15  | 13.7, | 332.7, | 236.4, | -168.2, | -6.0,  | 16  | 13.7, | 341.3, | 189.9, | -143.3, | -14.8, |
| 17  | 13.7, | 339.6, | 138.4, | -114.8, | -23.1, | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | -29.9, |
| 19  | 13.7, | 341.4, | 154.2, | -112.6, | -36.0, | 20  | 13.7, | 340.1, | 204.2, | -130.3, | -41.5, |
| 21  | 13.7, | 328.4, | 248.8, | -144.7, | -45.8, | 22  | 13.7, | 306.8, | 285.7, | -154.6, | -48.7, |
| 23  | 13.7, | 275.8, | 314.0, | -159.9, | -50.1, | 24  | 13.7, | 236.4, | 332.7, | -160.4, | -50.0, |
| 25  | 13.7, | 189.9, | 341.3, | -155.9, | -48.3, | 26  | 13.7, | 138.4, | 339.6, | -146.7, | -45.6, |
| 27  | 13.7, | 101.5, | 333.6, | -136.9, | -42.8, | 28  | 13.7, | 154.2, | 341.4, | -134.7, | -35.5, |
| 29  | 13.7, | 204.2, | 340.1, | -128.5, | -28.2, | 30  | 13.7, | 248.8, | 328.4, | -118.4, | -20.3, |
| 31  | 13.7, | 285.7, | 306.8, | -104.7, | -11.8, | 32  | 13.7, | 314.0, | 275.8, | -87.8,  | -2.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -68.2,  | 6.0,   | 34  | 13.7, | 341.3, | 189.9, | -46.6,  | 14.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -23.6,  | 23.1,  | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | 29.9,  |

SOURCE ID: IDLE34

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.8,  | 71.1,  | 2   | 13.7, | 340.1, | 204.2, | -87.1,  | 74.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -122.9, | 76.4,  | 4   | 13.7, | 306.8, | 285.7, | -154.9, | 75.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -182.1, | 72.4,  | 6   | 13.7, | 236.4, | 332.7, | -203.9, | 67.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -219.5, | 59.7,  | 8   | 13.7, | 138.4, | 339.6, | -228.3, | 50.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -232.6, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -241.8, | 28.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -244.9, | 15.0,  | 12  | 13.7, | 248.8, | 328.4, | -240.6, | 1.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -228.9, | -12.0, | 14  | 13.7, | 314.0, | 275.8, | -210.3, | -25.2, |
| 15  | 13.7, | 332.7, | 236.4, | -185.3, | -37.5, | 16  | 13.7, | 341.3, | 189.9, | -154.7, | -48.8, |
| 17  | 13.7, | 339.6, | 138.4, | -120.1, | -58.6, | 18  | 13.7, | 333.6, | 101.5, | -92.5,  | -65.8, |
| 19  | 13.7, | 341.4, | 154.2, | -105.4, | -71.1, | 20  | 13.7, | 340.1, | 204.2, | -117.1, | -74.9, |
| 21  | 13.7, | 328.4, | 248.8, | -125.9, | -76.4, | 22  | 13.7, | 306.8, | 285.7, | -130.9, | -75.5, |
| 23  | 13.7, | 275.8, | 314.0, | -131.8, | -72.4, | 24  | 13.7, | 236.4, | 332.7, | -128.8, | -67.1, |
| 25  | 13.7, | 189.9, | 341.3, | -121.9, | -59.7, | 26  | 13.7, | 138.4, | 339.6, | -111.2, | -50.9, |
| 27  | 13.7, | 101.5, | 333.6, | -101.0, | -41.8, | 28  | 13.7, | 154.2, | 341.4, | -99.6,  | -28.3, |
| 29  | 13.7, | 204.2, | 340.1, | -95.1,  | -15.0, | 30  | 13.7, | 248.8, | 328.4, | -87.8,  | -1.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -77.8,  | 12.0,  | 32  | 13.7, | 314.0, | 275.8, | -65.5,  | 25.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -51.1,  | 37.5,  | 34  | 13.7, | 341.3, | 189.9, | -35.2,  | 48.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.3,  | 58.6,  | 36  | 13.7, | 333.6, | 101.5, | -8.9,   | 65.8,  |

SOURCE ID: IDLE35

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -49.6,  | 75.0,  | 2   | 13.7, | 340.1, | 204.2, | -88.7,  | 78.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -125.0, | 79.7,  | 4   | 13.7, | 306.8, | 285.7, | -157.5, | 78.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -185.3, | 74.8,  | 6   | 13.7, | 236.4, | 332.7, | -207.4, | 68.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -223.2, | 60.9,  | 8   | 13.7, | 138.4, | 339.6, | -232.2, | 51.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -236.6, | 41.6,  | 10  | 13.7, | 154.2, | 341.4, | -245.7, | 27.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -248.6, | 13.5,  | 12  | 13.7, | 248.8, | 328.4, | -243.9, | -0.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -231.8, | -14.7, | 14  | 13.7, | 314.0, | 275.8, | -212.7, | -28.3, |
| 15  | 13.7, | 332.7, | 236.4, | -187.1, | -41.0, | 16  | 13.7, | 341.3, | 189.9, | -155.8, | -52.6, |
| 17  | 13.7, | 339.6, | 138.4, | -120.6, | -62.5, | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | -69.8, |
| 19  | 13.7, | 341.4, | 154.2, | -104.5, | -75.0, | 20  | 13.7, | 340.1, | 204.2, | -115.6, | -78.5, |
| 21  | 13.7, | 328.4, | 248.8, | -123.8, | -79.7, | 22  | 13.7, | 306.8, | 285.7, | -128.2, | -78.4, |
| 23  | 13.7, | 275.8, | 314.0, | -128.7, | -74.8, | 24  | 13.7, | 236.4, | 332.7, | -125.3, | -68.9, |
| 25  | 13.7, | 189.9, | 341.3, | -118.1, | -60.9, | 26  | 13.7, | 138.4, | 339.6, | -107.3, | -51.4, |
| 27  | 13.7, | 101.5, | 333.6, | -97.0,  | -41.6, | 28  | 13.7, | 154.2, | 341.4, | -95.7,  | -27.4, |
| 29  | 13.7, | 204.2, | 340.1, | -91.5,  | -13.5, | 30  | 13.7, | 248.8, | 328.4, | -84.5,  | 0.6,   |
| 31  | 13.7, | 285.7, | 306.8, | -74.9,  | 14.7,  | 32  | 13.7, | 314.0, | 275.8, | -63.1,  | 28.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -49.3,  | 41.0,  | 34  | 13.7, | 341.3, | 189.9, | -34.1,  | 52.6,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.8,  | 62.5,  | 36  | 13.7, | 333.6, | 101.5, | -9.1,   | 69.8,  |

SOURCE ID: IDLE36

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -50.4,  | 78.9,  | 2   | 13.7, | 340.1, | 204.2, | -90.1,  | 82.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -127.1, | 83.1,  | 4   | 13.7, | 306.8, | 285.7, | -160.2, | 81.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -188.4, | 77.3,  | 6   | 13.7, | 236.4, | 332.7, | -210.9, | 70.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -227.0, | 62.1,  | 8   | 13.7, | 138.4, | 339.6, | -236.2, | 52.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -240.5, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -249.6, | 26.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -252.3, | 12.0,  | 12  | 13.7, | 248.8, | 328.4, | -247.3, | -2.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -234.8, | -17.3, | 14  | 13.7, | 314.0, | 275.8, | -215.2, | -31.4, |
| 15  | 13.7, | 332.7, | 236.4, | -189.0, | -44.5, | 16  | 13.7, | 341.3, | 189.9, | -157.1, | -56.3, |
| 17  | 13.7, | 339.6, | 138.4, | -121.2, | -66.4, | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | -73.8, |
| 19  | 13.7, | 341.4, | 154.2, | -103.7, | -78.9, | 20  | 13.7, | 340.1, | 204.2, | -114.1, | -82.2, |
| 21  | 13.7, | 328.4, | 248.8, | -121.7, | -83.1, | 22  | 13.7, | 306.8, | 285.7, | -125.5, | -81.4, |
| 23  | 13.7, | 275.8, | 314.0, | -125.6, | -77.3, | 24  | 13.7, | 236.4, | 332.7, | -121.8, | -70.8, |
| 25  | 13.7, | 189.9, | 341.3, | -114.3, | -62.1, | 26  | 13.7, | 138.4, | 339.6, | -103.4, | -52.0, |
| 27  | 13.7, | 101.5, | 333.6, | -93.0,  | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -91.8,  | -26.7, |
| 29  | 13.7, | 204.2, | 340.1, | -87.8,  | -12.0, | 30  | 13.7, | 248.8, | 328.4, | -81.1,  | 2.7,   |
| 31  | 13.7, | 285.7, | 306.8, | -71.9,  | 17.3,  | 32  | 13.7, | 314.0, | 275.8, | -60.6,  | 31.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -47.4,  | 44.5,  | 34  | 13.7, | 341.3, | 189.9, | -32.8,  | 56.3,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.2,  | 66.4,  | 36  | 13.7, | 333.6, | 101.5, | -9.2,   | 73.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE37

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -45.6,  | 55.5,  | 2   | 13.7, | 340.1, | 204.2, | -81.3,  | 60.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -114.5, | 62.8,  | 4   | 13.7, | 306.8, | 285.7, | -144.3, | 63.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -169.7, | 62.5,  | 6   | 13.7, | 236.4, | 332.7, | -189.9, | 59.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -204.3, | 54.7,  | 8   | 13.7, | 138.4, | 339.6, | -212.6, | 48.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -216.7, | 42.2,  | 10  | 13.7, | 154.2, | 341.4, | -226.2, | 31.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -230.1, | 20.9,  | 12  | 13.7, | 248.8, | 328.4, | -227.0, | 9.9,   |
| 13  | 13.7, | 285.7, | 306.8, | -217.0, | -1.4,  | 14  | 13.7, | 314.0, | 275.8, | -200.4, | -12.7, |
| 15  | 13.7, | 332.7, | 236.4, | -177.7, | -23.5, | 16  | 13.7, | 341.3, | 189.9, | -149.6, | -33.7, |
| 17  | 13.7, | 339.6, | 138.4, | -117.7, | -42.8, | 18  | 13.7, | 333.6, | 101.5, | -93.0,  | -49.9, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 19 | 13.7, | 341.4, | 154.2, | -108.6, | -55.5, | 20 | 13.7, | 340.1, | 204.2, | -123.0, | -60.1, |
| 21 | 13.7, | 328.4, | 248.8, | -134.2, | -62.8, | 22 | 13.7, | 306.8, | 285.7, | -141.4, | -63.6, |
| 23 | 13.7, | 275.8, | 314.0, | -144.3, | -62.5, | 24 | 13.7, | 236.4, | 332.7, | -142.8, | -59.5, |
| 25 | 13.7, | 189.9, | 341.3, | -137.0, | -54.7, | 26 | 13.7, | 138.4, | 339.6, | -127.0, | -48.6, |
| 27 | 13.7, | 101.5, | 333.6, | -116.9, | -42.2, | 28 | 13.7, | 154.2, | 341.4, | -115.2, | -31.5, |
| 29 | 13.7, | 204.2, | 340.1, | -110.0, | -20.9, | 30 | 13.7, | 248.8, | 328.4, | -101.4, | -9.9,  |
| 31 | 13.7, | 285.7, | 306.8, | -89.8,  | 1.4,   | 32 | 13.7, | 314.0, | 275.8, | -75.4,  | 12.7,  |
| 33 | 13.7, | 332.7, | 236.4, | -58.7,  | 23.5,  | 34 | 13.7, | 341.3, | 189.9, | -40.3,  | 33.7,  |
| 35 | 13.7, | 339.6, | 138.4, | -20.6,  | 42.8,  | 36 | 13.7, | 333.6, | 101.5, | -8.5,   | 49.9,  |

SOURCE ID: IDLE38

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -46.5,  | 59.4,  | 2   | 13.7, | 340.1, | 204.2, | -82.9,  | 63.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.7, | 66.2,  | 4   | 13.7, | 306.8, | 285.7, | -147.0, | 66.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -172.9, | 64.9,  | 6   | 13.7, | 236.4, | 332.7, | -193.5, | 61.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.2, | 55.8,  | 8   | 13.7, | 138.4, | 339.6, | -216.6, | 49.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -220.7, | 42.0,  | 10  | 13.7, | 154.2, | 341.4, | -230.2, | 30.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -233.8, | 19.3,  | 12  | 13.7, | 248.8, | 328.4, | -230.4, | 7.7,   |
| 13  | 13.7, | 285.7, | 306.8, | -219.9, | -4.2,  | 14  | 13.7, | 314.0, | 275.8, | -202.8, | -15.9, |
| 15  | 13.7, | 332.7, | 236.4, | -179.5, | -27.1, | 16  | 13.7, | 341.3, | 189.9, | -150.8, | -37.5, |
| 17  | 13.7, | 339.6, | 138.4, | -118.2, | -46.8, | 18  | 13.7, | 333.6, | 101.5, | -92.8,  | -53.9, |
| 19  | 13.7, | 341.4, | 154.2, | -107.7, | -59.4, | 20  | 13.7, | 340.1, | 204.2, | -121.4, | -63.8, |
| 21  | 13.7, | 328.4, | 248.8, | -132.0, | -66.2, | 22  | 13.7, | 306.8, | 285.7, | -138.7, | -66.6, |
| 23  | 13.7, | 275.8, | 314.0, | -141.1, | -64.9, | 24  | 13.7, | 236.4, | 332.7, | -139.2, | -61.3, |
| 25  | 13.7, | 189.9, | 341.3, | -133.1, | -55.8, | 26  | 13.7, | 138.4, | 339.6, | -123.0, | -49.0, |
| 27  | 13.7, | 101.5, | 333.6, | -112.9, | -42.0, | 28  | 13.7, | 154.2, | 341.4, | -111.3, | -30.6, |
| 29  | 13.7, | 204.2, | 340.1, | -106.2, | -19.3, | 30  | 13.7, | 248.8, | 328.4, | -98.0,  | -7.7,  |
| 31  | 13.7, | 285.7, | 306.8, | -86.8,  | 4.2,   | 32  | 13.7, | 314.0, | 275.8, | -73.0,  | 15.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -56.9,  | 27.1,  | 34  | 13.7, | 341.3, | 189.9, | -39.1,  | 37.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -20.1,  | 46.8,  | 36  | 13.7, | 333.6, | 101.5, | -8.7,   | 53.9,  |

SOURCE ID: IDLE39

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -47.2,  | 63.2,  | 2   | 13.7, | 340.1, | 204.2, | -84.2,  | 67.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -118.7, | 69.5,  | 4   | 13.7, | 306.8, | 285.7, | -149.5, | 69.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -175.8, | 67.3,  | 6   | 13.7, | 236.4, | 332.7, | -196.8, | 63.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -211.8, | 57.1,  | 8   | 13.7, | 138.4, | 339.6, | -220.3, | 49.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -224.5, | 42.0,  | 10  | 13.7, | 154.2, | 341.4, | -233.9, | 29.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -237.4, | 17.9,  | 12  | 13.7, | 248.8, | 328.4, | -233.7, | 5.7,   |
| 13  | 13.7, | 285.7, | 306.8, | -222.8, | -6.7,  | 14  | 13.7, | 314.0, | 275.8, | -205.2, | -18.8, |
| 15  | 13.7, | 332.7, | 236.4, | -181.4, | -30.4, | 16  | 13.7, | 341.3, | 189.9, | -152.1, | -41.1, |
| 17  | 13.7, | 339.6, | 138.4, | -118.8, | -50.6, | 18  | 13.7, | 333.6, | 101.5, | -92.7,  | -57.7, |
| 19  | 13.7, | 341.4, | 154.2, | -107.0, | -63.2, | 20  | 13.7, | 340.1, | 204.2, | -120.0, | -67.3, |
| 21  | 13.7, | 328.4, | 248.8, | -130.1, | -69.5, | 22  | 13.7, | 306.8, | 285.7, | -136.2, | -69.5, |
| 23  | 13.7, | 275.8, | 314.0, | -138.1, | -67.3, | 24  | 13.7, | 236.4, | 332.7, | -135.9, | -63.2, |
| 25  | 13.7, | 189.9, | 341.3, | -129.5, | -57.1, | 26  | 13.7, | 138.4, | 339.6, | -119.2, | -49.7, |
| 27  | 13.7, | 101.5, | 333.6, | -109.1, | -42.0, | 28  | 13.7, | 154.2, | 341.4, | -107.5, | -29.9, |
| 29  | 13.7, | 204.2, | 340.1, | -102.7, | -17.9, | 30  | 13.7, | 248.8, | 328.4, | -94.7,  | -5.7,  |
| 31  | 13.7, | 285.7, | 306.8, | -83.9,  | 6.7,   | 32  | 13.7, | 314.0, | 275.8, | -70.5,  | 18.8,  |
| 33  | 13.7, | 332.7, | 236.4, | -55.0,  | 30.4,  | 34  | 13.7, | 341.3, | 189.9, | -37.8,  | 41.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -19.5,  | 50.6,  | 36  | 13.7, | 333.6, | 101.5, | -8.7,   | 57.7,  |

SOURCE ID: IDLE40

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.0,  | 67.1,  | 2   | 13.7, | 340.1, | 204.2, | -85.7,  | 71.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -120.8, | 72.8,  | 4   | 13.7, | 306.8, | 285.7, | -152.2, | 72.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -179.0, | 69.8,  | 6   | 13.7, | 236.4, | 332.7, | -200.3, | 65.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -215.6, | 58.3,  | 8   | 13.7, | 138.4, | 339.6, | -224.3, | 50.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -228.5, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -237.8, | 29.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -241.1, | 16.4,  | 12  | 13.7, | 248.8, | 328.4, | -237.1, | 3.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -225.8, | -9.3,  | 14  | 13.7, | 314.0, | 275.8, | -207.7, | -22.0, |
| 15  | 13.7, | 332.7, | 236.4, | -183.3, | -34.0, | 16  | 13.7, | 341.3, | 189.9, | -153.3, | -44.9, |
| 17  | 13.7, | 339.6, | 138.4, | -119.4, | -54.5, | 18  | 13.7, | 333.6, | 101.5, | -92.6,  | -61.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 19 | 13.7, | 341.4, | 154.2, | -106.1, | -67.1, | 20 | 13.7, | 340.1, | 204.2, | -118.5, | -71.1, |
| 21 | 13.7, | 328.4, | 248.8, | -128.0, | -72.8, | 22 | 13.7, | 306.8, | 285.7, | -133.5, | -72.4, |
| 23 | 13.7, | 275.8, | 314.0, | -135.0, | -69.8, | 24 | 13.7, | 236.4, | 332.7, | -132.4, | -65.1, |
| 25 | 13.7, | 189.9, | 341.3, | -125.7, | -58.3, | 26 | 13.7, | 138.4, | 339.6, | -115.3, | -50.2, |
| 27 | 13.7, | 101.5, | 333.6, | -105.1, | -41.8, | 28 | 13.7, | 154.2, | 341.4, | -103.6, | -29.1, |
| 29 | 13.7, | 204.2, | 340.1, | -99.0,  | -16.4, | 30 | 13.7, | 248.8, | 328.4, | -91.3,  | -3.6,  |
| 31 | 13.7, | 285.7, | 306.8, | -80.9,  | 9.3,   | 32 | 13.7, | 314.0, | 275.8, | -68.1,  | 22.0,  |
| 33 | 13.7, | 332.7, | 236.4, | -53.1,  | 34.0,  | 34 | 13.7, | 341.3, | 189.9, | -36.6,  | 44.9,  |
| 35 | 13.7, | 339.6, | 138.4, | -18.9,  | 54.5,  | 36 | 13.7, | 333.6, | 101.5, | -8.9,   | 61.7,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: IDLE41

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -55.0,  | 102.1,  | 2   | 13.7, | 340.1, | 204.2, | -98.7,  | 104.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -139.4, | 103.4,  | 4   | 13.7, | 306.8, | 285.7, | -175.8, | 99.3,   |
| 5   | 13.7, | 275.8, | 314.0, | -206.9, | 92.1,   | 6   | 13.7, | 236.4, | 332.7, | -231.7, | 82.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -249.4, | 69.8,   | 8   | 13.7, | 138.4, | 339.6, | -259.6, | 55.6,   |
| 9   | 13.7, | 101.5, | 333.6, | -264.2, | 41.0,   | 10  | 13.7, | 154.2, | 341.4, | -272.8, | 22.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -274.4, | 3.4,    | 12  | 13.7, | 248.8, | 328.4, | -267.6, | -15.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -252.6, | -32.9,  | 14  | 13.7, | 314.0, | 275.8, | -230.0, | -49.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -200.4, | -65.3,  | 16  | 13.7, | 341.3, | 189.9, | -164.7, | -78.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -124.8, | -89.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | -97.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -99.1,  | -102.1, | 20  | 13.7, | 340.1, | 204.2, | -105.5, | -104.3, |
| 21  | 13.7, | 328.4, | 248.8, | -109.4, | -103.4, | 22  | 13.7, | 306.8, | 285.7, | -109.9, | -99.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -107.1, | -92.1,  | 24  | 13.7, | 236.4, | 332.7, | -101.0, | -82.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -91.9,  | -69.8,  | 26  | 13.7, | 138.4, | 339.6, | -79.9,  | -55.6,  |
| 27  | 13.7, | 101.5, | 333.6, | -69.3,  | -41.0,  | 28  | 13.7, | 154.2, | 341.4, | -68.6,  | -22.0,  |
| 29  | 13.7, | 204.2, | 340.1, | -65.7,  | -3.4,   | 30  | 13.7, | 248.8, | 328.4, | -60.8,  | 15.0,   |
| 31  | 13.7, | 285.7, | 306.8, | -54.1,  | 32.9,   | 32  | 13.7, | 314.0, | 275.8, | -45.8,  | 49.9,   |
| 33  | 13.7, | 332.7, | 236.4, | -36.0,  | 65.3,   | 34  | 13.7, | 341.3, | 189.9, | -25.2,  | 78.8,   |
| 35  | 13.7, | 339.6, | 138.4, | -13.6,  | 89.8,   | 36  | 13.7, | 333.6, | 101.5, | -9.7,   | 97.5,   |

SOURCE ID: IDLE42

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -55.9,  | 106.0,  | 2   | 13.7, | 340.1, | 204.2, | -100.2, | 108.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -141.5, | 106.7,  | 4   | 13.7, | 306.8, | 285.7, | -178.5, | 102.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -210.0, | 94.5,   | 6   | 13.7, | 236.4, | 332.7, | -235.2, | 84.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -253.2, | 71.0,   | 8   | 13.7, | 138.4, | 339.6, | -263.6, | 56.1,   |
| 9   | 13.7, | 101.5, | 333.6, | -268.2, | 40.8,   | 10  | 13.7, | 154.2, | 341.4, | -276.7, | 21.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -278.0, | 1.9,    | 12  | 13.7, | 248.8, | 328.4, | -270.9, | -17.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -255.5, | -35.6,  | 14  | 13.7, | 314.0, | 275.8, | -232.4, | -53.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -202.2, | -68.8,  | 16  | 13.7, | 341.3, | 189.9, | -165.9, | -82.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.3, | -93.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.6,  | -101.4, |
| 19  | 13.7, | 341.4, | 154.2, | -98.3,  | -106.0, | 20  | 13.7, | 340.1, | 204.2, | -104.0, | -108.0, |
| 21  | 13.7, | 328.4, | 248.8, | -107.3, | -106.7, | 22  | 13.7, | 306.8, | 285.7, | -107.2, | -102.2, |
| 23  | 13.7, | 275.8, | 314.0, | -104.0, | -94.5,  | 24  | 13.7, | 236.4, | 332.7, | -97.5,  | -84.0,  |
| 25  | 13.7, | 189.9, | 341.3, | -88.1,  | -71.0,  | 26  | 13.7, | 138.4, | 339.6, | -76.0,  | -56.1,  |
| 27  | 13.7, | 101.5, | 333.6, | -65.4,  | -40.8,  | 28  | 13.7, | 154.2, | 341.4, | -64.7,  | -21.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -62.0,  | -1.9,   | 30  | 13.7, | 248.8, | 328.4, | -57.5,  | 17.1,   |
| 31  | 13.7, | 285.7, | 306.8, | -51.2,  | 35.6,   | 32  | 13.7, | 314.0, | 275.8, | -43.4,  | 53.0,   |
| 33  | 13.7, | 332.7, | 236.4, | -34.2,  | 68.8,   | 34  | 13.7, | 341.3, | 189.9, | -24.0,  | 82.6,   |
| 35  | 13.7, | 339.6, | 138.4, | -13.1,  | 93.8,   | 36  | 13.7, | 333.6, | 101.5, | -9.9,   | 101.4,  |

SOURCE ID: IDLE43





|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 23 | 13.7, | 275.8, | 314.0, | -113.4, | -87.1, | 24 | 13.7, | 236.4, | 332.7, | -108.1, | -78.3, |
| 25 | 13.7, | 189.9, | 341.3, | -99.5,  | -67.2, | 26 | 13.7, | 138.4, | 339.6, | -87.9,  | -54.4, |
| 27 | 13.7, | 101.5, | 333.6, | -77.4,  | -41.2, | 28 | 13.7, | 154.2, | 341.4, | -76.5,  | -23.6, |
| 29 | 13.7, | 204.2, | 340.1, | -73.2,  | -6.4,  | 30 | 13.7, | 248.8, | 328.4, | -67.7,  | 10.8,  |
| 31 | 13.7, | 285.7, | 306.8, | -60.2,  | 27.6,  | 32 | 13.7, | 314.0, | 275.8, | -50.8,  | 43.6,  |
| 33 | 13.7, | 332.7, | 236.4, | -39.9,  | 58.2,  | 34 | 13.7, | 341.3, | 189.9, | -27.8,  | 71.1,  |
| 35 | 13.7, | 339.6, | 138.4, | -14.8,  | 81.9,  | 36 | 13.7, | 333.6, | 101.5, | -9.5,   | 89.4,  |

SOURCE ID: IDLE46

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -54.3,  | 98.1,  | 2   | 13.7, | 340.1, | 204.2, | -97.2,  | 100.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -137.3, | 99.9,  | 4   | 13.7, | 306.8, | 285.7, | -173.1, | 96.2,   |
| 5   | 13.7, | 275.8, | 314.0, | -203.7, | 89.5,  | 6   | 13.7, | 236.4, | 332.7, | -228.1, | 80.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -245.6, | 68.4,  | 8   | 13.7, | 138.4, | 339.6, | -255.6, | 55.0,   |
| 9   | 13.7, | 101.5, | 333.6, | -260.2, | 41.1,  | 10  | 13.7, | 154.2, | 341.4, | -268.8, | 22.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -270.6, | 4.9,   | 12  | 13.7, | 248.8, | 328.4, | -264.1, | -12.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -249.5, | -30.3, | 14  | 13.7, | 314.0, | 275.8, | -227.4, | -46.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -198.4, | -61.8, | 16  | 13.7, | 341.3, | 189.9, | -163.4, | -74.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -124.1, | -85.8, | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | -93.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -99.9,  | -98.1, | 20  | 13.7, | 340.1, | 204.2, | -107.0, | -100.5, |
| 21  | 13.7, | 328.4, | 248.8, | -111.5, | -99.9, | 22  | 13.7, | 306.8, | 285.7, | -112.6, | -96.2,  |
| 23  | 13.7, | 275.8, | 314.0, | -110.2, | -89.5, | 24  | 13.7, | 236.4, | 332.7, | -104.6, | -80.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -95.7,  | -68.4, | 26  | 13.7, | 138.4, | 339.6, | -84.0,  | -55.0,  |
| 27  | 13.7, | 101.5, | 333.6, | -73.4,  | -41.1, | 28  | 13.7, | 154.2, | 341.4, | -72.6,  | -22.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -69.5,  | -4.9,  | 30  | 13.7, | 248.8, | 328.4, | -64.3,  | 12.9,   |
| 31  | 13.7, | 285.7, | 306.8, | -57.2,  | 30.3,  | 32  | 13.7, | 314.0, | 275.8, | -48.3,  | 46.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -38.0,  | 61.8,  | 34  | 13.7, | 341.3, | 189.9, | -26.5,  | 74.9,   |
| 35  | 13.7, | 339.6, | 138.4, | -14.2,  | 85.8,  | 36  | 13.7, | 333.6, | 101.5, | -9.7,   | 93.4,   |

SOURCE ID: TRU1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -18.2,  | -92.3,  | 2   | 13.7, | 340.1, | 204.2, | -28.7,  | -80.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -38.3,  | -66.8,  | 4   | 13.7, | 306.8, | 285.7, | -46.7,  | -50.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -53.7,  | -33.2,  | 6   | 13.7, | 236.4, | 332.7, | -59.1,  | -14.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -62.7,  | 4.4,    | 8   | 13.7, | 138.4, | 339.6, | -64.3,  | 23.7,   |
| 9   | 13.7, | 101.5, | 333.6, | -66.4,  | 43.5,   | 10  | 13.7, | 154.2, | 341.4, | -78.4,  | 58.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -89.3,  | 73.4,   | 12  | 13.7, | 248.8, | 328.4, | -97.5,  | 86.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -102.6, | 96.1,   | 14  | 13.7, | 314.0, | 275.8, | -104.7, | 103.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -103.6, | 107.3,  | 16  | 13.7, | 341.3, | 189.9, | -99.4,  | 108.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -92.9,  | 105.5,  | 18  | 13.7, | 333.6, | 101.5, | -94.2,  | 100.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -135.9, | 92.3,   | 20  | 13.7, | 340.1, | 204.2, | -175.6, | 80.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -210.5, | 66.8,   | 22  | 13.7, | 306.8, | 285.7, | -239.0, | 50.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -260.3, | 33.2,   | 24  | 13.7, | 236.4, | 332.7, | -273.6, | 14.6,   |
| 25  | 13.7, | 189.9, | 341.3, | -278.7, | -4.4,   | 26  | 13.7, | 138.4, | 339.6, | -275.2, | -23.7,  |
| 27  | 13.7, | 101.5, | 333.6, | -267.2, | -43.5,  | 28  | 13.7, | 154.2, | 341.4, | -263.0, | -58.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -250.8, | -73.4,  | 30  | 13.7, | 248.8, | 328.4, | -231.0, | -86.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -204.1, | -96.1,  | 32  | 13.7, | 314.0, | 275.8, | -171.1, | -103.3, |
| 33  | 13.7, | 332.7, | 236.4, | -132.8, | -107.3, | 34  | 13.7, | 341.3, | 189.9, | -90.5,  | -108.0, |
| 35  | 13.7, | 339.6, | 138.4, | -45.5,  | -105.5, | 36  | 13.7, | 333.6, | 101.5, | -7.2,   | -100.4, |

SOURCE ID: TRU2

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -18.9,  | -88.4, | 2   | 13.7, | 340.1, | 204.2, | -30.0,  | -77.0, |
| 3   | 13.7, | 328.4, | 248.8, | -40.2,  | -63.3, | 4   | 13.7, | 306.8, | 285.7, | -49.2,  | -47.6, |
| 5   | 13.7, | 275.8, | 314.0, | -56.7,  | -30.6, | 6   | 13.7, | 236.4, | 332.7, | -62.5,  | -12.6, |
| 7   | 13.7, | 189.9, | 341.3, | -66.4,  | 5.8,   | 8   | 13.7, | 138.4, | 339.6, | -68.2,  | 24.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -70.3,  | 43.5,  | 10  | 13.7, | 154.2, | 341.4, | -82.3,  | 58.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -93.0,  | 72.1,  | 12  | 13.7, | 248.8, | 328.4, | -100.9, | 84.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -105.7, | 93.6,  | 14  | 13.7, | 314.0, | 275.8, | -107.3, | 100.2, |
| 15  | 13.7, | 332.7, | 236.4, | -105.7, | 103.8, | 16  | 13.7, | 341.3, | 189.9, | -100.8, | 104.3, |
| 17  | 13.7, | 339.6, | 138.4, | -93.6,  | 101.5, | 18  | 13.7, | 333.6, | 101.5, | -94.3,  | 96.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -135.3, | 88.4,  | 20  | 13.7, | 340.1, | 204.2, | -174.2, | 77.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -208.5, | 63.3,  | 22  | 13.7, | 306.8, | 285.7, | -236.5, | 47.6,  |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 23 | 13.7, | 275.8, | 314.0, | -257.2, | 30.6,   | 24 | 13.7, | 236.4, | 332.7, | -270.2, | 12.6,   |
| 25 | 13.7, | 189.9, | 341.3, | -274.9, | -5.8,   | 26 | 13.7, | 138.4, | 339.6, | -271.3, | -24.4,  |
| 27 | 13.7, | 101.5, | 333.6, | -263.2, | -43.5,  | 28 | 13.7, | 154.2, | 341.4, | -259.1, | -58.2,  |
| 29 | 13.7, | 204.2, | 340.1, | -247.0, | -72.1,  | 30 | 13.7, | 248.8, | 328.4, | -227.5, | -84.1,  |
| 31 | 13.7, | 285.7, | 306.8, | -201.0, | -93.6,  | 32 | 13.7, | 314.0, | 275.8, | -168.5, | -100.2, |
| 33 | 13.7, | 332.7, | 236.4, | -130.8, | -103.8, | 34 | 13.7, | 341.3, | 189.9, | -89.1,  | -104.3, |
| 35 | 13.7, | 339.6, | 138.4, | -44.8,  | -101.5, | 36 | 13.7, | 333.6, | 101.5, | -7.2,   | -96.4,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU3

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -19.7,  | -84.5,  | 2   | 13.7, | 340.1, | 204.2, | -31.5,  | -73.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -42.3,  | -60.0,  | 4   | 13.7, | 306.8, | 285.7, | -51.8,  | -44.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -59.8,  | -28.2,  | 6   | 13.7, | 236.4, | 332.7, | -66.0,  | -10.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -70.1,  | 7.1,    | 8   | 13.7, | 138.4, | 339.6, | -72.1,  | 25.0,   |
| 9   | 13.7, | 101.5, | 333.6, | -74.3,  | 43.4,   | 10  | 13.7, | 154.2, | 341.4, | -86.2,  | 57.4,   |
| 11  | 13.7, | 204.2, | 340.1, | -96.7,  | 70.7,   | 12  | 13.7, | 248.8, | 328.4, | -104.2, | 82.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -108.6, | 91.0,   | 14  | 13.7, | 314.0, | 275.8, | -109.7, | 97.2,   |
| 15  | 13.7, | 332.7, | 236.4, | -107.5, | 100.4,  | 16  | 13.7, | 341.3, | 189.9, | -102.0, | 100.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -94.2,  | 97.7,   | 18  | 13.7, | 333.6, | 101.5, | -94.1,  | 92.5,   |
| 19  | 13.7, | 341.4, | 154.2, | -134.5, | 84.5,   | 20  | 13.7, | 340.1, | 204.2, | -172.8, | 73.4,   |
| 21  | 13.7, | 328.4, | 248.8, | -206.5, | 60.0,   | 22  | 13.7, | 306.8, | 285.7, | -233.9, | 44.7,   |
| 23  | 13.7, | 275.8, | 314.0, | -254.2, | 28.2,   | 24  | 13.7, | 236.4, | 332.7, | -266.7, | 10.7,   |
| 25  | 13.7, | 189.9, | 341.3, | -271.2, | -7.1,   | 26  | 13.7, | 138.4, | 339.6, | -267.4, | -25.0,  |
| 27  | 13.7, | 101.5, | 333.6, | -259.3, | -43.4,  | 28  | 13.7, | 154.2, | 341.4, | -255.2, | -57.4,  |
| 29  | 13.7, | 204.2, | 340.1, | -243.4, | -70.7,  | 30  | 13.7, | 248.8, | 328.4, | -224.2, | -82.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -198.1, | -91.0,  | 32  | 13.7, | 314.0, | 275.8, | -166.0, | -97.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -128.9, | -100.4, | 34  | 13.7, | 341.3, | 189.9, | -87.9,  | -100.6, |
| 35  | 13.7, | 339.6, | 138.4, | -44.2,  | -97.7,  | 36  | 13.7, | 333.6, | 101.5, | -7.3,   | -92.5,  |

SOURCE ID: TRU4

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -20.4,  | -80.8, | 2   | 13.7, | 340.1, | 204.2, | -32.9,  | -69.8, |
| 3   | 13.7, | 328.4, | 248.8, | -44.3,  | -56.7, | 4   | 13.7, | 306.8, | 285.7, | -54.4,  | -41.8, |
| 5   | 13.7, | 275.8, | 314.0, | -62.8,  | -25.7, | 6   | 13.7, | 236.4, | 332.7, | -69.3,  | -8.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -73.8,  | 8.3,   | 8   | 13.7, | 138.4, | 339.6, | -75.9,  | 25.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -78.1,  | 43.3,  | 10  | 13.7, | 154.2, | 341.4, | -90.0,  | 56.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -100.3, | 69.3,  | 12  | 13.7, | 248.8, | 328.4, | -107.5, | 80.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -111.5, | 88.5,  | 14  | 13.7, | 314.0, | 275.8, | -112.2, | 94.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -109.4, | 97.0,  | 16  | 13.7, | 341.3, | 189.9, | -103.2, | 96.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -94.8,  | 93.8,  | 18  | 13.7, | 333.6, | 101.5, | -94.1,  | 88.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -133.7, | 80.8,  | 20  | 13.7, | 340.1, | 204.2, | -171.4, | 69.8,  |
| 21  | 13.7, | 328.4, | 248.8, | -204.5, | 56.7,  | 22  | 13.7, | 306.8, | 285.7, | -231.3, | 41.8,  |
| 23  | 13.7, | 275.8, | 314.0, | -251.2, | 25.7,  | 24  | 13.7, | 236.4, | 332.7, | -263.4, | 8.9,   |
| 25  | 13.7, | 189.9, | 341.3, | -267.6, | -8.3,  | 26  | 13.7, | 138.4, | 339.6, | -263.6, | -25.6, |
| 27  | 13.7, | 101.5, | 333.6, | -255.5, | -43.3, | 28  | 13.7, | 154.2, | 341.4, | -251.5, | -56.6, |
| 29  | 13.7, | 204.2, | 340.1, | -239.8, | -69.3, | 30  | 13.7, | 248.8, | 328.4, | -220.9, | -80.1, |
| 31  | 13.7, | 285.7, | 306.8, | -195.2, | -88.5, | 32  | 13.7, | 314.0, | 275.8, | -163.6, | -94.2, |
| 33  | 13.7, | 332.7, | 236.4, | -127.1, | -97.0, | 34  | 13.7, | 341.3, | 189.9, | -86.6,  | -96.9, |
| 35  | 13.7, | 339.6, | 138.4, | -43.6,  | -93.8, | 36  | 13.7, | 333.6, | 101.5, | -7.4,   | -88.7, |

SOURCE ID: TRU5

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ   | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|--------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.2, | -76.8, | 2   | 13.7, | 340.1, | 204.2, | -34.3, | -66.1, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 3  | 13.7, | 328.4, | 248.8, | -46.4,  | -53.3, | 4  | 13.7, | 306.8, | 285.7, | -57.0,  | -38.8, |
| 5  | 13.7, | 275.8, | 314.0, | -65.9,  | -23.3, | 6  | 13.7, | 236.4, | 332.7, | -72.8,  | -7.0,  |
| 7  | 13.7, | 189.9, | 341.3, | -77.5,  | 9.6,   | 8  | 13.7, | 138.4, | 339.6, | -79.9,  | 26.2,  |
| 9  | 13.7, | 101.5, | 333.6, | -82.1,  | 43.2,  | 10 | 13.7, | 154.2, | 341.4, | -93.8,  | 55.8,  |
| 11 | 13.7, | 204.2, | 340.1, | -104.0, | 67.8,  | 12 | 13.7, | 248.8, | 328.4, | -110.9, | 78.0,  |
| 13 | 13.7, | 285.7, | 306.8, | -114.5, | 85.8,  | 14 | 13.7, | 314.0, | 275.8, | -114.6, | 91.0,  |
| 15 | 13.7, | 332.7, | 236.4, | -111.2, | 93.5,  | 16 | 13.7, | 341.3, | 189.9, | -104.5, | 93.1,  |
| 17 | 13.7, | 339.6, | 138.4, | -95.3,  | 89.9,  | 18 | 13.7, | 333.6, | 101.5, | -94.0,  | 84.7,  |
| 19 | 13.7, | 341.4, | 154.2, | -132.9, | 76.8,  | 20 | 13.7, | 340.1, | 204.2, | -169.9, | 66.1,  |
| 21 | 13.7, | 328.4, | 248.8, | -202.4, | 53.3,  | 22 | 13.7, | 306.8, | 285.7, | -228.7, | 38.8,  |
| 23 | 13.7, | 275.8, | 314.0, | -248.0, | 23.3,  | 24 | 13.7, | 236.4, | 332.7, | -259.9, | 7.0,   |
| 25 | 13.7, | 189.9, | 341.3, | -263.8, | -9.6,  | 26 | 13.7, | 138.4, | 339.6, | -259.7, | -26.2, |
| 27 | 13.7, | 101.5, | 333.6, | -251.5, | -43.2, | 28 | 13.7, | 154.2, | 341.4, | -247.6, | -55.8, |
| 29 | 13.7, | 204.2, | 340.1, | -236.1, | -67.8, | 30 | 13.7, | 248.8, | 328.4, | -217.5, | -78.0, |
| 31 | 13.7, | 285.7, | 306.8, | -192.2, | -85.8, | 32 | 13.7, | 314.0, | 275.8, | -161.2, | -91.0, |
| 33 | 13.7, | 332.7, | 236.4, | -125.2, | -93.5, | 34 | 13.7, | 341.3, | 189.9, | -85.4,  | -93.1, |
| 35 | 13.7, | 339.6, | 138.4, | -43.0,  | -89.9, | 36 | 13.7, | 333.6, | 101.5, | -7.5,   | -84.7, |

SOURCE ID: TRU6

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.9,  | -69.1, | 2   | 13.7, | 340.1, | 204.2, | -37.3,  | -58.7, |
| 3   | 13.7, | 328.4, | 248.8, | -50.6,  | -46.5, | 4   | 13.7, | 306.8, | 285.7, | -62.3,  | -33.0, |
| 5   | 13.7, | 275.8, | 314.0, | -72.2,  | -18.4, | 6   | 13.7, | 236.4, | 332.7, | -79.9,  | -3.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -85.1,  | 12.0,  | 8   | 13.7, | 138.4, | 339.6, | -87.7,  | 27.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -90.0,  | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -101.6, | 54.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -111.3, | 64.8,  | 12  | 13.7, | 248.8, | 328.4, | -117.7, | 73.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -120.4, | 80.5,  | 14  | 13.7, | 314.0, | 275.8, | -119.5, | 84.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -115.0, | 86.5,  | 16  | 13.7, | 341.3, | 189.9, | -106.9, | 85.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -96.4,  | 82.0,  | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | 76.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -131.2, | 69.1,  | 20  | 13.7, | 340.1, | 204.2, | -166.9, | 58.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -198.2, | 46.5,  | 22  | 13.7, | 306.8, | 285.7, | -223.4, | 33.0,  |
| 23  | 13.7, | 275.8, | 314.0, | -241.8, | 18.4,  | 24  | 13.7, | 236.4, | 332.7, | -252.8, | 3.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -256.2, | -12.0, | 26  | 13.7, | 138.4, | 339.6, | -251.8, | -27.2, |
| 27  | 13.7, | 101.5, | 333.6, | -243.6, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -239.8, | -54.2, |
| 29  | 13.7, | 204.2, | 340.1, | -228.7, | -64.8, | 30  | 13.7, | 248.8, | 328.4, | -210.7, | -73.8, |
| 31  | 13.7, | 285.7, | 306.8, | -186.3, | -80.5, | 32  | 13.7, | 314.0, | 275.8, | -156.3, | -84.8, |
| 33  | 13.7, | 332.7, | 236.4, | -121.5, | -86.5, | 34  | 13.7, | 341.3, | 189.9, | -83.0,  | -85.6, |
| 35  | 13.7, | 339.6, | 138.4, | -41.9,  | -82.0, | 36  | 13.7, | 333.6, | 101.5, | -7.8,   | -76.8, |



\*\*\* AERMOD - VERSION 23132 \*\*\*

Spreckels\15639 Ops HRA\1 \*\*\*

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

09/20/24

\*\*\*

11:04:36

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU7

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.6,  | -65.2, | 2   | 13.7, | 340.1, | 204.2, | -38.6,  | -54.9, |
| 3   | 13.7, | 328.4, | 248.8, | -52.6,  | -43.1, | 4   | 13.7, | 306.8, | 285.7, | -64.9,  | -29.9, |
| 5   | 13.7, | 275.8, | 314.0, | -75.2,  | -15.8, | 6   | 13.7, | 236.4, | 332.7, | -83.3,  | -1.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -88.8,  | 13.4,  | 8   | 13.7, | 138.4, | 339.6, | -91.6,  | 28.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -94.0,  | 43.0,  | 10  | 13.7, | 154.2, | 341.4, | -105.5, | 53.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -115.1, | 63.5,  | 12  | 13.7, | 248.8, | 328.4, | -121.1, | 71.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -123.5, | 78.0,  | 14  | 13.7, | 314.0, | 275.8, | -122.1, | 81.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -117.0, | 83.1,  | 16  | 13.7, | 341.3, | 189.9, | -108.3, | 81.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -97.1,  | 78.1,  | 18  | 13.7, | 333.6, | 101.5, | -93.7,  | 72.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -130.6, | 65.2,  | 20  | 13.7, | 340.1, | 204.2, | -165.6, | 54.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -196.2, | 43.1,  | 22  | 13.7, | 306.8, | 285.7, | -220.8, | 29.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -238.7, | 15.8,  | 24  | 13.7, | 236.4, | 332.7, | -249.4, | 1.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -252.5, | -13.4, | 26  | 13.7, | 138.4, | 339.6, | -247.9, | -28.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 27 | 13.7, | 101.5, | 333.6, | -239.6, | -43.0, | 28 | 13.7, | 154.2, | 341.4, | -235.9, | -53.5, |
| 29 | 13.7, | 204.2, | 340.1, | -225.0, | -63.5, | 30 | 13.7, | 248.8, | 328.4, | -207.3, | -71.8, |
| 31 | 13.7, | 285.7, | 306.8, | -183.3, | -78.0, | 32 | 13.7, | 314.0, | 275.8, | -153.7, | -81.8, |
| 33 | 13.7, | 332.7, | 236.4, | -119.4, | -83.1, | 34 | 13.7, | 341.3, | 189.9, | -81.5,  | -81.8, |
| 35 | 13.7, | 339.6, | 138.4, | -41.2,  | -78.1, | 36 | 13.7, | 333.6, | 101.5, | -7.8,   | -72.8, |

SOURCE ID: TRU8

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.4,  | -61.3, | 2   | 13.7, | 340.1, | 204.2, | -40.1,  | -51.3, |
| 3   | 13.7, | 328.4, | 248.8, | -54.6,  | -39.7, | 4   | 13.7, | 306.8, | 285.7, | -67.5,  | -27.0, |
| 5   | 13.7, | 275.8, | 314.0, | -78.3,  | -13.4, | 6   | 13.7, | 236.4, | 332.7, | -86.7,  | 0.6,   |
| 7   | 13.7, | 189.9, | 341.3, | -92.5,  | 14.6,  | 8   | 13.7, | 138.4, | 339.6, | -95.5,  | 28.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -97.9,  | 42.9,  | 10  | 13.7, | 154.2, | 341.4, | -109.4, | 52.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -118.7, | 62.0,  | 12  | 13.7, | 248.8, | 328.4, | -124.5, | 69.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -126.4, | 75.4,  | 14  | 13.7, | 314.0, | 275.8, | -124.5, | 78.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -118.8, | 79.6,  | 16  | 13.7, | 341.3, | 189.9, | -109.6, | 78.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -97.7,  | 74.3,  | 18  | 13.7, | 333.6, | 101.5, | -93.6,  | 68.9,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.8, | 61.3,  | 20  | 13.7, | 340.1, | 204.2, | -164.2, | 51.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.1, | 39.7,  | 22  | 13.7, | 306.8, | 285.7, | -218.2, | 27.0,  |
| 23  | 13.7, | 275.8, | 314.0, | -235.7, | 13.4,  | 24  | 13.7, | 236.4, | 332.7, | -246.0, | -0.6,  |
| 25  | 13.7, | 189.9, | 341.3, | -248.8, | -14.6, | 26  | 13.7, | 138.4, | 339.6, | -244.0, | -28.5, |
| 27  | 13.7, | 101.5, | 333.6, | -235.7, | -42.9, | 28  | 13.7, | 154.2, | 341.4, | -232.0, | -52.7, |
| 29  | 13.7, | 204.2, | 340.1, | -221.4, | -62.0, | 30  | 13.7, | 248.8, | 328.4, | -203.9, | -69.8, |
| 31  | 13.7, | 285.7, | 306.8, | -180.3, | -75.4, | 32  | 13.7, | 314.0, | 275.8, | -151.3, | -78.7, |
| 33  | 13.7, | 332.7, | 236.4, | -117.6, | -79.6, | 34  | 13.7, | 341.3, | 189.9, | -80.3,  | -78.1, |
| 35  | 13.7, | 339.6, | 138.4, | -40.6,  | -74.3, | 36  | 13.7, | 333.6, | 101.5, | -7.9,   | -68.9, |

SOURCE ID: TRU9

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.1,  | -57.5, | 2   | 13.7, | 340.1, | 204.2, | -41.5,  | -47.7, |
| 3   | 13.7, | 328.4, | 248.8, | -56.6,  | -36.4, | 4   | 13.7, | 306.8, | 285.7, | -70.0,  | -24.1, |
| 5   | 13.7, | 275.8, | 314.0, | -81.3,  | -11.0, | 6   | 13.7, | 236.4, | 332.7, | -90.1,  | 2.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -96.2,  | 15.9,  | 8   | 13.7, | 138.4, | 339.6, | -99.3,  | 29.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -101.8, | 42.8,  | 10  | 13.7, | 154.2, | 341.4, | -113.2, | 52.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -122.3, | 60.6,  | 12  | 13.7, | 248.8, | 328.4, | -127.8, | 67.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -129.3, | 72.8,  | 14  | 13.7, | 314.0, | 275.8, | -126.9, | 75.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -120.7, | 76.2,  | 16  | 13.7, | 341.3, | 189.9, | -110.8, | 74.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -98.3,  | 70.4,  | 18  | 13.7, | 333.6, | 101.5, | -93.5,  | 65.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -129.1, | 57.5,  | 20  | 13.7, | 340.1, | 204.2, | -162.8, | 47.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.1, | 36.4,  | 22  | 13.7, | 306.8, | 285.7, | -215.7, | 24.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -232.7, | 11.0,  | 24  | 13.7, | 236.4, | 332.7, | -242.6, | -2.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -245.1, | -15.9, | 26  | 13.7, | 138.4, | 339.6, | -240.2, | -29.1, |
| 27  | 13.7, | 101.5, | 333.6, | -231.8, | -42.8, | 28  | 13.7, | 154.2, | 341.4, | -228.2, | -52.0, |
| 29  | 13.7, | 204.2, | 340.1, | -217.8, | -60.6, | 30  | 13.7, | 248.8, | 328.4, | -200.6, | -67.8, |
| 31  | 13.7, | 285.7, | 306.8, | -177.4, | -72.8, | 32  | 13.7, | 314.0, | 275.8, | -148.8, | -75.7, |
| 33  | 13.7, | 332.7, | 236.4, | -115.7, | -76.2, | 34  | 13.7, | 341.3, | 189.9, | -79.1,  | -74.5, |
| 35  | 13.7, | 339.6, | 138.4, | -40.0,  | -70.4, | 36  | 13.7, | 333.6, | 101.5, | -8.0,   | -65.0, |

SOURCE ID: TRU10

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -25.9,  | -53.6, | 2   | 13.7, | 340.1, | 204.2, | -43.0,  | -44.0, |
| 3   | 13.7, | 328.4, | 248.8, | -58.7,  | -33.0, | 4   | 13.7, | 306.8, | 285.7, | -72.7,  | -21.1, |
| 5   | 13.7, | 275.8, | 314.0, | -84.4,  | -8.5,  | 6   | 13.7, | 236.4, | 332.7, | -93.6,  | 4.4,   |
| 7   | 13.7, | 189.9, | 341.3, | -100.0, | 17.1,  | 8   | 13.7, | 138.4, | 339.6, | -103.3, | 29.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -105.8, | 42.7,  | 10  | 13.7, | 154.2, | 341.4, | -117.1, | 51.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -126.0, | 59.2,  | 12  | 13.7, | 248.8, | 328.4, | -131.1, | 65.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -132.3, | 70.2,  | 14  | 13.7, | 314.0, | 275.8, | -129.4, | 72.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -122.6, | 72.7,  | 16  | 13.7, | 341.3, | 189.9, | -112.1, | 70.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -98.9,  | 66.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.4,  | 61.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -128.2, | 53.6,  | 20  | 13.7, | 340.1, | 204.2, | -161.3, | 44.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -190.0, | 33.0,  | 22  | 13.7, | 306.8, | 285.7, | -213.0, | 21.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -229.5, | 8.5,   | 24  | 13.7, | 236.4, | 332.7, | -239.1, | -4.4,  |
| 25  | 13.7, | 189.9, | 341.3, | -241.3, | -17.1, | 26  | 13.7, | 138.4, | 339.6, | -236.3, | -29.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 27 | 13.7, | 101.5, | 333.6, | -227.8, | -42.7, | 28 | 13.7, | 154.2, | 341.4, | -224.3, | -51.2, |
| 29 | 13.7, | 204.2, | 340.1, | -214.1, | -59.2, | 30 | 13.7, | 248.8, | 328.4, | -197.2, | -65.7, |
| 31 | 13.7, | 285.7, | 306.8, | -174.5, | -70.2, | 32 | 13.7, | 314.0, | 275.8, | -146.4, | -72.5, |
| 33 | 13.7, | 332.7, | 236.4, | -113.8, | -72.7, | 34 | 13.7, | 341.3, | 189.9, | -77.8,  | -70.7, |
| 35 | 13.7, | 339.6, | 138.4, | -39.5,  | -66.5, | 36 | 13.7, | 333.6, | 101.5, | -8.1,   | -61.0, |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*      \*\*\*      11:04:36

PAGE 56

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU11

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -26.8,  | -49.7, | 2   | 13.7, | 340.1, | 204.2, | -44.5,  | -40.3, |
| 3   | 13.7, | 328.4, | 248.8, | -60.9,  | -29.7, | 4   | 13.7, | 306.8, | 285.7, | -75.4,  | -18.1, |
| 5   | 13.7, | 275.8, | 314.0, | -87.7,  | -6.0,  | 6   | 13.7, | 236.4, | 332.7, | -97.2,  | 6.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -103.8, | 18.3,  | 8   | 13.7, | 138.4, | 339.6, | -107.3, | 30.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -109.8, | 42.4,  | 10  | 13.7, | 154.2, | 341.4, | -121.0, | 50.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -129.8, | 57.6,  | 12  | 13.7, | 248.8, | 328.4, | -134.6, | 63.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -135.2, | 67.4,  | 14  | 13.7, | 314.0, | 275.8, | -131.9, | 69.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -124.4, | 69.1,  | 16  | 13.7, | 341.3, | 189.9, | -113.2, | 66.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -99.4,  | 62.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.2,  | 57.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.3, | 49.7,  | 20  | 13.7, | 340.1, | 204.2, | -159.7, | 40.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -187.8, | 29.7,  | 22  | 13.7, | 306.8, | 285.7, | -210.3, | 18.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -226.3, | 6.0,   | 24  | 13.7, | 236.4, | 332.7, | -235.5, | -6.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -237.5, | -18.3, | 26  | 13.7, | 138.4, | 339.6, | -232.3, | -30.2, |
| 27  | 13.7, | 101.5, | 333.6, | -223.8, | -42.4, | 28  | 13.7, | 154.2, | 341.4, | -220.4, | -50.3, |
| 29  | 13.7, | 204.2, | 340.1, | -210.3, | -57.6, | 30  | 13.7, | 248.8, | 328.4, | -193.9, | -63.5, |
| 31  | 13.7, | 285.7, | 306.8, | -171.5, | -67.4, | 32  | 13.7, | 314.0, | 275.8, | -143.9, | -69.3, |
| 33  | 13.7, | 332.7, | 236.4, | -112.0, | -69.1, | 34  | 13.7, | 341.3, | 189.9, | -76.6,  | -66.8, |
| 35  | 13.7, | 339.6, | 138.4, | -39.0,  | -62.5, | 36  | 13.7, | 333.6, | 101.5, | -8.3,   | -57.0, |

SOURCE ID: TRU12

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -27.6,  | -45.7, | 2   | 13.7, | 340.1, | 204.2, | -46.0,  | -36.5, |
| 3   | 13.7, | 328.4, | 248.8, | -63.0,  | -26.2, | 4   | 13.7, | 306.8, | 285.7, | -78.1,  | -15.1, |
| 5   | 13.7, | 275.8, | 314.0, | -90.8,  | -3.5,  | 6   | 13.7, | 236.4, | 332.7, | -100.7, | 8.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -107.6, | 19.6,  | 8   | 13.7, | 138.4, | 339.6, | -111.3, | 30.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -113.8, | 42.4,  | 10  | 13.7, | 154.2, | 341.4, | -125.0, | 49.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -133.5, | 56.2,  | 12  | 13.7, | 248.8, | 328.4, | -138.0, | 61.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -138.3, | 64.8,  | 14  | 13.7, | 314.0, | 275.8, | -134.4, | 66.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.4, | 65.6,  | 16  | 13.7, | 341.3, | 189.9, | -114.6, | 63.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -100.0, | 58.5,  | 18  | 13.7, | 333.6, | 101.5, | -93.1,  | 52.9,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.6, | 45.7,  | 20  | 13.7, | 340.1, | 204.2, | -158.3, | 36.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -185.8, | 26.2,  | 22  | 13.7, | 306.8, | 285.7, | -207.6, | 15.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -223.2, | 3.5,   | 24  | 13.7, | 236.4, | 332.7, | -232.0, | -8.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -233.7, | -19.6, | 26  | 13.7, | 138.4, | 339.6, | -228.3, | -30.9, |
| 27  | 13.7, | 101.5, | 333.6, | -219.8, | -42.4, | 28  | 13.7, | 154.2, | 341.4, | -216.4, | -49.5, |
| 29  | 13.7, | 204.2, | 340.1, | -206.6, | -56.2, | 30  | 13.7, | 248.8, | 328.4, | -190.4, | -61.4, |
| 31  | 13.7, | 285.7, | 306.8, | -168.4, | -64.8, | 32  | 13.7, | 314.0, | 275.8, | -141.4, | -66.2, |
| 33  | 13.7, | 332.7, | 236.4, | -110.0, | -65.6, | 34  | 13.7, | 341.3, | 189.9, | -75.3,  | -63.0, |
| 35  | 13.7, | 339.6, | 138.4, | -38.3,  | -58.5, | 36  | 13.7, | 333.6, | 101.5, | -8.3,   | -52.9, |

SOURCE ID: TRU13

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.3, | -38.2, | 2   | 13.7, | 340.1, | 204.2, | -49.0,  | -29.4, |
| 3   | 13.7, | 328.4, | 248.8, | -67.2, | -19.7, | 4   | 13.7, | 306.8, | 285.7, | -83.3,  | -9.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -96.9, | 1.2,   | 6   | 13.7, | 236.4, | 332.7, | -107.6, | 11.7,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 7  | 13.7, | 189.9, | 341.3, | -115.0, | 21.9,  | 8  | 13.7, | 138.4, | 339.6, | -119.0, | 31.8,  |
| 9  | 13.7, | 101.5, | 333.6, | -121.6, | 42.0,  | 10 | 13.7, | 154.2, | 341.4, | -132.5, | 47.8,  |
| 11 | 13.7, | 204.2, | 340.1, | -140.7, | 53.2,  | 12 | 13.7, | 248.8, | 328.4, | -144.5, | 57.2,  |
| 13 | 13.7, | 285.7, | 306.8, | -144.0, | 59.5,  | 14 | 13.7, | 314.0, | 275.8, | -139.1, | 60.0,  |
| 15 | 13.7, | 332.7, | 236.4, | -130.0, | 58.7,  | 16 | 13.7, | 341.3, | 189.9, | -116.9, | 55.6,  |
| 17 | 13.7, | 339.6, | 138.4, | -101.0, | 50.8,  | 18 | 13.7, | 333.6, | 101.5, | -92.8,  | 45.2,  |
| 19 | 13.7, | 341.4, | 154.2, | -124.9, | 38.2,  | 20 | 13.7, | 340.1, | 204.2, | -155.3, | 29.4,  |
| 21 | 13.7, | 328.4, | 248.8, | -181.6, | 19.7,  | 22 | 13.7, | 306.8, | 285.7, | -202.4, | 9.4,   |
| 23 | 13.7, | 275.8, | 314.0, | -217.0, | -1.2,  | 24 | 13.7, | 236.4, | 332.7, | -225.1, | -11.7, |
| 25 | 13.7, | 189.9, | 341.3, | -226.3, | -21.9, | 26 | 13.7, | 138.4, | 339.6, | -220.6, | -31.8, |
| 27 | 13.7, | 101.5, | 333.6, | -212.0, | -42.0, | 28 | 13.7, | 154.2, | 341.4, | -208.9, | -47.8, |
| 29 | 13.7, | 204.2, | 340.1, | -199.4, | -53.2, | 30 | 13.7, | 248.8, | 328.4, | -183.9, | -57.2, |
| 31 | 13.7, | 285.7, | 306.8, | -162.8, | -59.5, | 32 | 13.7, | 314.0, | 275.8, | -136.7, | -60.0, |
| 33 | 13.7, | 332.7, | 236.4, | -106.5, | -58.7, | 34 | 13.7, | 341.3, | 189.9, | -73.0,  | -55.6, |
| 35 | 13.7, | 339.6, | 138.4, | -37.3,  | -50.8, | 36 | 13.7, | 333.6, | 101.5, | -8.7,   | -45.2, |

SOURCE ID: TRU14

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -29.9,  | -34.3, | 2   | 13.7, | 340.1, | 204.2, | -50.3,  | -25.6, |
| 3   | 13.7, | 328.4, | 248.8, | -69.1,  | -16.2, | 4   | 13.7, | 306.8, | 285.7, | -85.8,  | -6.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -100.0, | 3.8,   | 6   | 13.7, | 236.4, | 332.7, | -111.0, | 13.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -118.8, | 23.3,  | 8   | 13.7, | 138.4, | 339.6, | -122.9, | 32.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -125.5, | 42.1,  | 10  | 13.7, | 154.2, | 341.4, | -136.4, | 47.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -144.4, | 51.8,  | 12  | 13.7, | 248.8, | 328.4, | -148.0, | 55.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -147.1, | 57.0,  | 14  | 13.7, | 314.0, | 275.8, | -141.7, | 57.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -132.0, | 55.3,  | 16  | 13.7, | 341.3, | 189.9, | -118.3, | 51.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -101.7, | 46.9,  | 18  | 13.7, | 333.6, | 101.5, | -92.8,  | 41.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -124.2, | 34.3,  | 20  | 13.7, | 340.1, | 204.2, | -154.0, | 25.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -179.6, | 16.2,  | 22  | 13.7, | 306.8, | 285.7, | -199.9, | 6.3,   |
| 23  | 13.7, | 275.8, | 314.0, | -214.0, | -3.8,  | 24  | 13.7, | 236.4, | 332.7, | -221.6, | -13.8, |
| 25  | 13.7, | 189.9, | 341.3, | -222.6, | -23.3, | 26  | 13.7, | 138.4, | 339.6, | -216.7, | -32.6, |
| 27  | 13.7, | 101.5, | 333.6, | -208.0, | -42.1, | 28  | 13.7, | 154.2, | 341.4, | -205.0, | -47.1, |
| 29  | 13.7, | 204.2, | 340.1, | -195.7, | -51.8, | 30  | 13.7, | 248.8, | 328.4, | -180.4, | -55.3, |
| 31  | 13.7, | 285.7, | 306.8, | -159.7, | -57.0, | 32  | 13.7, | 314.0, | 275.8, | -134.1, | -57.0, |
| 33  | 13.7, | 332.7, | 236.4, | -104.5, | -55.3, | 34  | 13.7, | 341.3, | 189.9, | -71.6,  | -51.9, |
| 35  | 13.7, | 339.6, | 138.4, | -36.6,  | -46.9, | 36  | 13.7, | 333.6, | 101.5, | -8.7,   | -41.2, |


 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

11:04:36

PAGE 57

\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU15

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -30.7,  | -30.4, | 2   | 13.7, | 340.1, | 204.2, | -51.7,  | -22.0, |
| 3   | 13.7, | 328.4, | 248.8, | -71.2,  | -12.9, | 4   | 13.7, | 306.8, | 285.7, | -88.4,  | -3.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -103.0, | 6.2,   | 6   | 13.7, | 236.4, | 332.7, | -114.5, | 15.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -122.5, | 24.6,  | 8   | 13.7, | 138.4, | 339.6, | -126.7, | 33.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -129.5, | 41.9,  | 10  | 13.7, | 154.2, | 341.4, | -140.3, | 46.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -148.0, | 50.4,  | 12  | 13.7, | 248.8, | 328.4, | -151.3, | 53.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -150.0, | 54.4,  | 14  | 13.7, | 314.0, | 275.8, | -144.1, | 53.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -133.8, | 51.9,  | 16  | 13.7, | 341.3, | 189.9, | -119.5, | 48.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.3, | 43.1,  | 18  | 13.7, | 333.6, | 101.5, | -92.7,  | 37.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -123.4, | 30.4,  | 20  | 13.7, | 340.1, | 204.2, | -152.5, | 22.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -177.6, | 12.9,  | 22  | 13.7, | 306.8, | 285.7, | -197.3, | 3.4,   |
| 23  | 13.7, | 275.8, | 314.0, | -210.9, | -6.2,  | 24  | 13.7, | 236.4, | 332.7, | -218.2, | -15.6, |
| 25  | 13.7, | 189.9, | 341.3, | -218.9, | -24.6, | 26  | 13.7, | 138.4, | 339.6, | -212.8, | -33.1, |
| 27  | 13.7, | 101.5, | 333.6, | -204.1, | -41.9, | 28  | 13.7, | 154.2, | 341.4, | -201.2, | -46.3, |
| 29  | 13.7, | 204.2, | 340.1, | -192.0, | -50.4, | 30  | 13.7, | 248.8, | 328.4, | -177.1, | -53.2, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 31 | 13.7, | 285.7, | 306.8, | -156.8, | -54.4, | 32 | 13.7, | 314.0, | 275.8, | -131.7, | -53.9, |
| 33 | 13.7, | 332.7, | 236.4, | -102.6, | -51.9, | 34 | 13.7, | 341.3, | 189.9, | -70.4,  | -48.2, |
| 35 | 13.7, | 339.6, | 138.4, | -36.1,  | -43.1, | 36 | 13.7, | 333.6, | 101.5, | -8.8,   | -37.3, |

SOURCE ID: TRU16

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -31.5,  | -26.7, | 2   | 13.7, | 340.1, | 204.2, | -53.1,  | -18.4, |
| 3   | 13.7, | 328.4, | 248.8, | -73.2,  | -9.6,  | 4   | 13.7, | 306.8, | 285.7, | -91.0,  | -0.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -106.0, | 8.6,   | 6   | 13.7, | 236.4, | 332.7, | -117.9, | 17.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -126.1, | 25.8,  | 8   | 13.7, | 138.4, | 339.6, | -130.5, | 33.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -133.3, | 41.9,  | 10  | 13.7, | 154.2, | 341.4, | -144.1, | 45.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -151.6, | 49.0,  | 12  | 13.7, | 248.8, | 328.4, | -154.6, | 51.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -152.9, | 51.9,  | 14  | 13.7, | 314.0, | 275.8, | -146.5, | 50.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -135.7, | 48.5,  | 16  | 13.7, | 341.3, | 189.9, | -120.8, | 44.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -102.9, | 39.2,  | 18  | 13.7, | 333.6, | 101.5, | -92.6,  | 33.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -122.7, | 26.7,  | 20  | 13.7, | 340.1, | 204.2, | -151.1, | 18.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -175.6, | 9.6,   | 22  | 13.7, | 306.8, | 285.7, | -194.7, | 0.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -207.9, | -8.6,  | 24  | 13.7, | 236.4, | 332.7, | -214.8, | -17.5, |
| 25  | 13.7, | 189.9, | 341.3, | -215.2, | -25.8, | 26  | 13.7, | 138.4, | 339.6, | -209.0, | -33.7, |
| 27  | 13.7, | 101.5, | 333.6, | -200.3, | -41.9, | 28  | 13.7, | 154.2, | 341.4, | -197.4, | -45.6, |
| 29  | 13.7, | 204.2, | 340.1, | -188.4, | -49.0, | 30  | 13.7, | 248.8, | 328.4, | -173.8, | -51.2, |
| 31  | 13.7, | 285.7, | 306.8, | -153.9, | -51.9, | 32  | 13.7, | 314.0, | 275.8, | -129.3, | -50.9, |
| 33  | 13.7, | 332.7, | 236.4, | -100.7, | -48.5, | 34  | 13.7, | 341.3, | 189.9, | -69.1,  | -44.5, |
| 35  | 13.7, | 339.6, | 138.4, | -35.5,  | -39.2, | 36  | 13.7, | 333.6, | 101.5, | -8.9,   | -33.5, |

SOURCE ID: TRU17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -32.3,  | -22.8, | 2   | 13.7, | 340.1, | 204.2, | -54.6,  | -14.7, |
| 3   | 13.7, | 328.4, | 248.8, | -75.3,  | -6.2,  | 4   | 13.7, | 306.8, | 285.7, | -93.6,  | 2.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -109.2, | 11.1,  | 6   | 13.7, | 236.4, | 332.7, | -121.4, | 19.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -129.9, | 27.1,  | 8   | 13.7, | 138.4, | 339.6, | -134.5, | 34.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -137.3, | 41.8,  | 10  | 13.7, | 154.2, | 341.4, | -148.0, | 44.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -155.3, | 47.5,  | 12  | 13.7, | 248.8, | 328.4, | -158.0, | 49.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -155.9, | 49.2,  | 14  | 13.7, | 314.0, | 275.8, | -149.0, | 47.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -137.6, | 45.0,  | 16  | 13.7, | 341.3, | 189.9, | -122.0, | 40.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -103.5, | 35.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.5,  | 29.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.9, | 22.8,  | 20  | 13.7, | 340.1, | 204.2, | -149.7, | 14.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -173.5, | 6.2,   | 22  | 13.7, | 306.8, | 285.7, | -192.1, | -2.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -204.8, | -11.1, | 24  | 13.7, | 236.4, | 332.7, | -211.3, | -19.4, |
| 25  | 13.7, | 189.9, | 341.3, | -211.4, | -27.1, | 26  | 13.7, | 138.4, | 339.6, | -205.1, | -34.3, |
| 27  | 13.7, | 101.5, | 333.6, | -196.3, | -41.8, | 28  | 13.7, | 154.2, | 341.4, | -193.5, | -44.8, |
| 29  | 13.7, | 204.2, | 340.1, | -184.7, | -47.5, | 30  | 13.7, | 248.8, | 328.4, | -170.4, | -49.1, |
| 31  | 13.7, | 285.7, | 306.8, | -150.9, | -49.2, | 32  | 13.7, | 314.0, | 275.8, | -126.8, | -47.8, |
| 33  | 13.7, | 332.7, | 236.4, | -98.8,  | -45.0, | 34  | 13.7, | 341.3, | 189.9, | -67.9,  | -40.8, |
| 35  | 13.7, | 339.6, | 138.4, | -34.9,  | -35.3, | 36  | 13.7, | 333.6, | 101.5, | -9.0,   | -29.5, |

SOURCE ID: TRU18

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -33.2,  | -18.8, | 2   | 13.7, | 340.1, | 204.2, | -56.2,  | -11.0, |
| 3   | 13.7, | 328.4, | 248.8, | -77.5,  | -2.8,  | 4   | 13.7, | 306.8, | 285.7, | -96.4,  | 5.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -112.4, | 13.5,  | 6   | 13.7, | 236.4, | 332.7, | -125.0, | 21.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -133.8, | 28.2,  | 8   | 13.7, | 138.4, | 339.6, | -138.5, | 34.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -141.3, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -151.9, | 43.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -159.1, | 45.9,  | 12  | 13.7, | 248.8, | 328.4, | -161.4, | 46.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -158.8, | 46.5,  | 14  | 13.7, | 314.0, | 275.8, | -151.4, | 44.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -139.4, | 41.4,  | 16  | 13.7, | 341.3, | 189.9, | -123.2, | 36.9,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.0, | 31.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.3,  | 25.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -121.0, | 18.8,  | 20  | 13.7, | 340.1, | 204.2, | -148.1, | 11.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -171.3, | 2.8,   | 22  | 13.7, | 306.8, | 285.7, | -189.3, | -5.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -201.6, | -13.5, | 24  | 13.7, | 236.4, | 332.7, | -207.7, | -21.2, |
| 25  | 13.7, | 189.9, | 341.3, | -207.5, | -28.2, | 26  | 13.7, | 138.4, | 339.6, | -201.1, | -34.8, |
| 27  | 13.7, | 101.5, | 333.6, | -192.2, | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -189.5, | -43.9, |
| 29  | 13.7, | 204.2, | 340.1, | -181.0, | -45.9, | 30  | 13.7, | 248.8, | 328.4, | -167.0, | -46.9, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 31 | 13.7, | 285.7, | 306.8, | -147.9, | -46.5, | 32 | 13.7, | 314.0, | 275.8, | -124.4, | -44.6, |
| 33 | 13.7, | 332.7, | 236.4, | -97.0,  | -41.4, | 34 | 13.7, | 341.3, | 189.9, | -66.7,  | -36.9, |
| 35 | 13.7, | 339.6, | 138.4, | -34.4,  | -31.3, | 36 | 13.7, | 333.6, | 101.5, | -9.2,   | -25.4, |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     *** 11:04:36

```

PAGE 58

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -33.9,  | -14.9, | 2   | 13.7, | 340.1, | 204.2, | -57.6,  | -7.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -79.5,  | 0.7,   | 4   | 13.7, | 306.8, | 285.7, | -99.0,  | 8.5,   |
| 5   | 13.7, | 275.8, | 314.0, | -115.5, | 16.1,  | 6   | 13.7, | 236.4, | 332.7, | -128.5, | 23.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -137.6, | 29.6,  | 8   | 13.7, | 138.4, | 339.6, | -142.5, | 35.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -145.4, | 41.5,  | 10  | 13.7, | 154.2, | 341.4, | -155.9, | 43.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -162.8, | 44.5,  | 12  | 13.7, | 248.8, | 328.4, | -164.9, | 44.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -161.9, | 43.8,  | 14  | 13.7, | 314.0, | 275.8, | -154.0, | 41.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -141.4, | 37.9,  | 16  | 13.7, | 341.3, | 189.9, | -124.5, | 33.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -104.6, | 27.3,  | 18  | 13.7, | 333.6, | 101.5, | -92.2,  | 21.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -120.2, | 14.9,  | 20  | 13.7, | 340.1, | 204.2, | -146.7, | 7.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -169.2, | -0.7,  | 22  | 13.7, | 306.8, | 285.7, | -186.7, | -8.5,  |
| 23  | 13.7, | 275.8, | 314.0, | -198.5, | -16.1, | 24  | 13.7, | 236.4, | 332.7, | -204.2, | -23.2, |
| 25  | 13.7, | 189.9, | 341.3, | -203.8, | -29.6, | 26  | 13.7, | 138.4, | 339.6, | -197.1, | -35.4, |
| 27  | 13.7, | 101.5, | 333.6, | -188.2, | -41.5, | 28  | 13.7, | 154.2, | 341.4, | -185.6, | -43.2, |
| 29  | 13.7, | 204.2, | 340.1, | -177.2, | -44.5, | 30  | 13.7, | 248.8, | 328.4, | -163.5, | -44.9, |
| 31  | 13.7, | 285.7, | 306.8, | -144.9, | -43.8, | 32  | 13.7, | 314.0, | 275.8, | -121.8, | -41.5, |
| 33  | 13.7, | 332.7, | 236.4, | -95.0,  | -37.9, | 34  | 13.7, | 341.3, | 189.9, | -65.4,  | -33.1, |
| 35  | 13.7, | 339.6, | 138.4, | -33.7,  | -27.3, | 36  | 13.7, | 333.6, | 101.5, | -9.2,   | -21.4, |

SOURCE ID: TRU20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -35.6,  | -7.2,  | 2   | 13.7, | 340.1, | 204.2, | -60.5,  | 0.1,   |
| 3   | 13.7, | 328.4, | 248.8, | -83.7,  | 7.3,   | 4   | 13.7, | 306.8, | 285.7, | -104.3, | 14.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -121.7, | 20.9,  | 6   | 13.7, | 236.4, | 332.7, | -135.4, | 26.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -145.1, | 32.0,  | 8   | 13.7, | 138.4, | 339.6, | -150.2, | 36.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -153.2, | 41.2,  | 10  | 13.7, | 154.2, | 341.4, | -163.5, | 41.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -170.1, | 41.6,  | 12  | 13.7, | 248.8, | 328.4, | -171.5, | 40.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -167.7, | 38.6,  | 14  | 13.7, | 314.0, | 275.8, | -158.8, | 35.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -145.1, | 30.9,  | 16  | 13.7, | 341.3, | 189.9, | -126.9, | 25.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -105.7, | 19.5,  | 18  | 13.7, | 333.6, | 101.5, | -91.9,  | 13.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -118.6, | 7.2,   | 20  | 13.7, | 340.1, | 204.2, | -143.7, | -0.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -165.1, | -7.3,  | 22  | 13.7, | 306.8, | 285.7, | -181.4, | -14.3, |
| 23  | 13.7, | 275.8, | 314.0, | -192.3, | -20.9, | 24  | 13.7, | 236.4, | 332.7, | -197.3, | -26.9, |
| 25  | 13.7, | 189.9, | 341.3, | -196.3, | -32.0, | 26  | 13.7, | 138.4, | 339.6, | -189.3, | -36.5, |
| 27  | 13.7, | 101.5, | 333.6, | -180.4, | -41.2, | 28  | 13.7, | 154.2, | 341.4, | -177.9, | -41.5, |
| 29  | 13.7, | 204.2, | 340.1, | -170.0, | -41.6, | 30  | 13.7, | 248.8, | 328.4, | -156.9, | -40.7, |
| 31  | 13.7, | 285.7, | 306.8, | -139.1, | -38.6, | 32  | 13.7, | 314.0, | 275.8, | -117.0, | -35.3, |
| 33  | 13.7, | 332.7, | 236.4, | -91.4,  | -30.9, | 34  | 13.7, | 341.3, | 189.9, | -63.0,  | -25.6, |
| 35  | 13.7, | 339.6, | 138.4, | -32.7,  | -19.5, | 36  | 13.7, | 333.6, | 101.5, | -9.5,   | -13.6, |

SOURCE ID: TRU21

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -36.2,  | -3.2, | 2   | 13.7, | 340.1, | 204.2, | -61.9,  | 3.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -85.6,  | 10.8, | 4   | 13.7, | 306.8, | 285.7, | -106.8, | 17.4, |
| 5   | 13.7, | 275.8, | 314.0, | -124.7, | 23.5, | 6   | 13.7, | 236.4, | 332.7, | -138.9, | 28.9, |
| 7   | 13.7, | 189.9, | 341.3, | -148.8, | 33.4, | 8   | 13.7, | 138.4, | 339.6, | -154.2, | 37.2, |
| 9   | 13.7, | 101.5, | 333.6, | -157.2, | 41.2, | 10  | 13.7, | 154.2, | 341.4, | -167.5, | 40.8, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -173.9, | 40.2,  | 12 | 13.7, | 248.8, | 328.4, | -175.0, | 38.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -170.8, | 36.0,  | 14 | 13.7, | 314.0, | 275.8, | -161.4, | 32.2,  |
| 15 | 13.7, | 332.7, | 236.4, | -147.1, | 27.5,  | 16 | 13.7, | 341.3, | 189.9, | -128.3, | 21.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -106.4, | 15.6,  | 18 | 13.7, | 333.6, | 101.5, | -92.0,  | 9.6,   |
| 19 | 13.7, | 341.4, | 154.2, | -117.9, | 3.2,   | 20 | 13.7, | 340.1, | 204.2, | -142.4, | -3.8,  |
| 21 | 13.7, | 328.4, | 248.8, | -163.1, | -10.8, | 22 | 13.7, | 306.8, | 285.7, | -178.9, | -17.4, |
| 23 | 13.7, | 275.8, | 314.0, | -189.2, | -23.5, | 24 | 13.7, | 236.4, | 332.7, | -193.8, | -28.9, |
| 25 | 13.7, | 189.9, | 341.3, | -192.5, | -33.4, | 26 | 13.7, | 138.4, | 339.6, | -185.4, | -37.2, |
| 27 | 13.7, | 101.5, | 333.6, | -176.4, | -41.2, | 28 | 13.7, | 154.2, | 341.4, | -174.0, | -40.8, |
| 29 | 13.7, | 204.2, | 340.1, | -166.2, | -40.2, | 30 | 13.7, | 248.8, | 328.4, | -153.4, | -38.7, |
| 31 | 13.7, | 285.7, | 306.8, | -136.0, | -36.0, | 32 | 13.7, | 314.0, | 275.8, | -114.4, | -32.2, |
| 33 | 13.7, | 332.7, | 236.4, | -89.3,  | -27.5, | 34 | 13.7, | 341.3, | 189.9, | -61.6,  | -21.9, |
| 35 | 13.7, | 339.6, | 138.4, | -31.9,  | -15.6, | 36 | 13.7, | 333.6, | 101.5, | -9.5,   | -9.6,  |

SOURCE ID: TRU22

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -37.0,  | 0.6,   | 2   | 13.7, | 340.1, | 204.2, | -63.3,  | 7.4,   |
| 3   | 13.7, | 328.4, | 248.8, | -87.7,  | 14.1,  | 4   | 13.7, | 306.8, | 285.7, | -109.4, | 20.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -127.8, | 25.9,  | 6   | 13.7, | 236.4, | 332.7, | -142.3, | 30.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -152.5, | 34.6,  | 8   | 13.7, | 138.4, | 339.6, | -158.0, | 37.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -161.1, | 41.1,  | 10  | 13.7, | 154.2, | 341.4, | -171.3, | 40.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -177.5, | 38.8,  | 12  | 13.7, | 248.8, | 328.4, | -178.3, | 36.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -173.7, | 33.4,  | 14  | 13.7, | 314.0, | 275.8, | -163.8, | 29.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -148.9, | 24.1,  | 16  | 13.7, | 341.3, | 189.9, | -129.5, | 18.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.0, | 11.8,  | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | 5.7,   |
| 19  | 13.7, | 341.4, | 154.2, | -117.1, | -0.6,  | 20  | 13.7, | 340.1, | 204.2, | -140.9, | -7.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -161.1, | -14.1, | 22  | 13.7, | 306.8, | 285.7, | -176.3, | -20.3, |
| 23  | 13.7, | 275.8, | 314.0, | -186.2, | -25.9, | 24  | 13.7, | 236.4, | 332.7, | -190.4, | -30.7, |
| 25  | 13.7, | 189.9, | 341.3, | -188.8, | -34.6, | 26  | 13.7, | 138.4, | 339.6, | -181.5, | -37.8, |
| 27  | 13.7, | 101.5, | 333.6, | -172.5, | -41.1, | 28  | 13.7, | 154.2, | 341.4, | -170.1, | -40.0, |
| 29  | 13.7, | 204.2, | 340.1, | -162.6, | -38.8, | 30  | 13.7, | 248.8, | 328.4, | -150.1, | -36.7, |
| 31  | 13.7, | 285.7, | 306.8, | -133.1, | -33.4, | 32  | 13.7, | 314.0, | 275.8, | -112.0, | -29.2, |
| 33  | 13.7, | 332.7, | 236.4, | -87.5,  | -24.1, | 34  | 13.7, | 341.3, | 189.9, | -60.3,  | -18.2, |
| 35  | 13.7, | 339.6, | 138.4, | -31.4,  | -11.8, | 36  | 13.7, | 333.6, | 101.5, | -9.6,   | -5.7,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU23

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -37.8,  | 4.4,   | 2   | 13.7, | 340.1, | 204.2, | -64.7,  | 11.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.7,  | 17.4,  | 4   | 13.7, | 306.8, | 285.7, | -112.0, | 23.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -130.8, | 28.3,  | 6   | 13.7, | 236.4, | 332.7, | -145.7, | 32.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -156.1, | 35.8,  | 8   | 13.7, | 138.4, | 339.6, | -161.9, | 38.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -165.0, | 41.0,  | 10  | 13.7, | 154.2, | 341.4, | -175.1, | 39.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -181.1, | 37.4,  | 12  | 13.7, | 248.8, | 328.4, | -181.6, | 34.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -176.6, | 30.9,  | 14  | 13.7, | 314.0, | 275.8, | -166.2, | 26.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -150.8, | 20.7,  | 16  | 13.7, | 341.3, | 189.9, | -130.8, | 14.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -107.6, | 7.9,   | 18  | 13.7, | 333.6, | 101.5, | -91.8,  | 1.8,   |
| 19  | 13.7, | 341.4, | 154.2, | -116.4, | -4.4,  | 20  | 13.7, | 340.1, | 204.2, | -139.5, | -11.1, |
| 21  | 13.7, | 328.4, | 248.8, | -159.1, | -17.4, | 22  | 13.7, | 306.8, | 285.7, | -173.7, | -23.2, |
| 23  | 13.7, | 275.8, | 314.0, | -183.2, | -28.3, | 24  | 13.7, | 236.4, | 332.7, | -187.0, | -32.6, |
| 25  | 13.7, | 189.9, | 341.3, | -185.2, | -35.8, | 26  | 13.7, | 138.4, | 339.6, | -177.7, | -38.4, |
| 27  | 13.7, | 101.5, | 333.6, | -168.6, | -41.0, | 28  | 13.7, | 154.2, | 341.4, | -166.3, | -39.3, |
| 29  | 13.7, | 204.2, | 340.1, | -159.0, | -37.4, | 30  | 13.7, | 248.8, | 328.4, | -146.8, | -34.7, |
| 31  | 13.7, | 285.7, | 306.8, | -130.2, | -30.9, | 32  | 13.7, | 314.0, | 275.8, | -109.6, | -26.2, |
| 33  | 13.7, | 332.7, | 236.4, | -85.6,  | -20.7, | 34  | 13.7, | 341.3, | 189.9, | -59.1,  | -14.5, |

|    |       |        |        |        |       |    |       |        |        |       |       |
|----|-------|--------|--------|--------|-------|----|-------|--------|--------|-------|-------|
| 35 | 13.7, | 339.6, | 138.4, | -30.8, | -7.9, | 36 | 13.7, | 333.6, | 101.5, | -9.7, | -1.8, |
|----|-------|--------|--------|--------|-------|----|-------|--------|--------|-------|-------|

SOURCE ID: TRU24

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -38.6,  | 8.3,   | 2   | 13.7, | 340.1, | 204.2, | -66.2,  | 14.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -91.8,  | 20.8,  | 4   | 13.7, | 306.8, | 285.7, | -114.6, | 26.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -133.9, | 30.8,  | 6   | 13.7, | 236.4, | 332.7, | -149.2, | 34.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -159.9, | 37.1,  | 8   | 13.7, | 138.4, | 339.6, | -165.8, | 39.0,  |
| 9   | 13.7, | 101.5, | 333.6, | -168.9, | 40.9,  | 10  | 13.7, | 154.2, | 341.4, | -179.0, | 38.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -184.8, | 35.9,  | 12  | 13.7, | 248.8, | 328.4, | -185.0, | 32.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -179.6, | 28.2,  | 14  | 13.7, | 314.0, | 275.8, | -168.7, | 23.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -152.7, | 17.2,  | 16  | 13.7, | 341.3, | 189.9, | -132.0, | 10.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -108.1, | 4.0,   | 18  | 13.7, | 333.6, | 101.5, | -91.6,  | -2.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -115.6, | -8.3,  | 20  | 13.7, | 340.1, | 204.2, | -138.1, | -14.8, |
| 21  | 13.7, | 328.4, | 248.8, | -157.0, | -20.8, | 22  | 13.7, | 306.8, | 285.7, | -171.1, | -26.2, |
| 23  | 13.7, | 275.8, | 314.0, | -180.0, | -30.8, | 24  | 13.7, | 236.4, | 332.7, | -183.5, | -34.5, |
| 25  | 13.7, | 189.9, | 341.3, | -181.4, | -37.1, | 26  | 13.7, | 138.4, | 339.6, | -173.8, | -39.0, |
| 27  | 13.7, | 101.5, | 333.6, | -164.7, | -40.9, | 28  | 13.7, | 154.2, | 341.4, | -162.4, | -38.5, |
| 29  | 13.7, | 204.2, | 340.1, | -155.3, | -35.9, | 30  | 13.7, | 248.8, | 328.4, | -143.4, | -32.6, |
| 31  | 13.7, | 285.7, | 306.8, | -127.2, | -28.2, | 32  | 13.7, | 314.0, | 275.8, | -107.1, | -23.1, |
| 33  | 13.7, | 332.7, | 236.4, | -83.8,  | -17.2, | 34  | 13.7, | 341.3, | 189.9, | -57.8,  | -10.7, |
| 35  | 13.7, | 339.6, | 138.4, | -30.2,  | -4.0,  | 36  | 13.7, | 333.6, | 101.5, | -9.8,   | 2.1,   |

SOURCE ID: TRU25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -39.5,  | 12.2,  | 2   | 13.7, | 340.1, | 204.2, | -67.8,  | 18.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.0,  | 24.2,  | 4   | 13.7, | 306.8, | 285.7, | -117.4, | 29.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -137.2, | 33.2,  | 6   | 13.7, | 236.4, | 332.7, | -152.8, | 36.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -163.8, | 38.3,  | 8   | 13.7, | 138.4, | 339.6, | -169.8, | 39.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -173.0, | 40.7,  | 10  | 13.7, | 154.2, | 341.4, | -182.9, | 37.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -188.5, | 34.3,  | 12  | 13.7, | 248.8, | 328.4, | -188.4, | 30.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -182.5, | 25.5,  | 14  | 13.7, | 314.0, | 275.8, | -171.1, | 19.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -154.5, | 13.6,  | 16  | 13.7, | 341.3, | 189.9, | -133.2, | 6.9,   |
| 17  | 13.7, | 339.6, | 138.4, | -108.6, | -0.0,  | 18  | 13.7, | 333.6, | 101.5, | -91.4,  | -6.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -114.7, | -12.2, | 20  | 13.7, | 340.1, | 204.2, | -136.5, | -18.5, |
| 21  | 13.7, | 328.4, | 248.8, | -154.8, | -24.2, | 22  | 13.7, | 306.8, | 285.7, | -168.3, | -29.2, |
| 23  | 13.7, | 275.8, | 314.0, | -176.8, | -33.2, | 24  | 13.7, | 236.4, | 332.7, | -179.9, | -36.3, |
| 25  | 13.7, | 189.9, | 341.3, | -177.5, | -38.3, | 26  | 13.7, | 138.4, | 339.6, | -169.8, | -39.5, |
| 27  | 13.7, | 101.5, | 333.6, | -160.6, | -40.7, | 28  | 13.7, | 154.2, | 341.4, | -158.5, | -37.6, |
| 29  | 13.7, | 204.2, | 340.1, | -151.6, | -34.3, | 30  | 13.7, | 248.8, | 328.4, | -140.0, | -30.4, |
| 31  | 13.7, | 285.7, | 306.8, | -124.2, | -25.5, | 32  | 13.7, | 314.0, | 275.8, | -104.7, | -19.8, |
| 33  | 13.7, | 332.7, | 236.4, | -81.9,  | -13.6, | 34  | 13.7, | 341.3, | 189.9, | -56.7,  | -6.9,  |
| 35  | 13.7, | 339.6, | 138.4, | -29.7,  | 0.0,   | 36  | 13.7, | 333.6, | 101.5, | -10.0,  | 6.2,   |

SOURCE ID: TRU26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -40.2,  | 16.2,  | 2   | 13.7, | 340.1, | 204.2, | -69.2,  | 22.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -96.0,  | 27.6,  | 4   | 13.7, | 306.8, | 285.7, | -120.0, | 32.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -140.3, | 35.8,  | 6   | 13.7, | 236.4, | 332.7, | -156.3, | 38.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.6, | 39.6,  | 8   | 13.7, | 138.4, | 339.6, | -173.8, | 40.1,  |
| 9   | 13.7, | 101.5, | 333.6, | -177.0, | 40.7,  | 10  | 13.7, | 154.2, | 341.4, | -186.9, | 36.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -192.3, | 32.9,  | 12  | 13.7, | 248.8, | 328.4, | -191.8, | 28.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -185.6, | 22.9,  | 14  | 13.7, | 314.0, | 275.8, | -173.7, | 16.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -156.5, | 10.1,  | 16  | 13.7, | 341.3, | 189.9, | -134.6, | 3.1,   |
| 17  | 13.7, | 339.6, | 138.4, | -109.3, | -4.0,  | 18  | 13.7, | 333.6, | 101.5, | -91.4,  | -10.2, |
| 19  | 13.7, | 341.4, | 154.2, | -113.9, | -16.2, | 20  | 13.7, | 340.1, | 204.2, | -135.1, | -22.2, |
| 21  | 13.7, | 328.4, | 248.8, | -152.7, | -27.6, | 22  | 13.7, | 306.8, | 285.7, | -165.7, | -32.2, |
| 23  | 13.7, | 275.8, | 314.0, | -173.7, | -35.8, | 24  | 13.7, | 236.4, | 332.7, | -176.4, | -38.3, |
| 25  | 13.7, | 189.9, | 341.3, | -173.7, | -39.6, | 26  | 13.7, | 138.4, | 339.6, | -165.8, | -40.1, |
| 27  | 13.7, | 101.5, | 333.6, | -156.6, | -40.7, | 28  | 13.7, | 154.2, | 341.4, | -154.5, | -36.8, |
| 29  | 13.7, | 204.2, | 340.1, | -147.8, | -32.9, | 30  | 13.7, | 248.8, | 328.4, | -136.6, | -28.3, |
| 31  | 13.7, | 285.7, | 306.8, | -121.2, | -22.9, | 32  | 13.7, | 314.0, | 275.8, | -102.1, | -16.7, |
| 33  | 13.7, | 332.7, | 236.4, | -79.9,  | -10.0, | 34  | 13.7, | 341.3, | 189.9, | -55.3,  | -3.1,  |

35 13.7, 339.6, 138.4, -29.1, 4.0, 36 13.7, 333.6, 101.5, -10.1, 10.2,

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 60

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -41.9,  | 23.9,  | 2   | 13.7, | 340.1, | 204.2, | -72.2,  | 29.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -100.2, | 34.3,  | 4   | 13.7, | 306.8, | 285.7, | -125.3, | 38.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -146.5, | 40.6,  | 6   | 13.7, | 236.4, | 332.7, | -163.3, | 42.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -175.1, | 42.0,  | 8   | 13.7, | 138.4, | 339.6, | -181.6, | 41.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -184.9, | 40.4,  | 10  | 13.7, | 154.2, | 341.4, | -194.6, | 35.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -199.6, | 29.9,  | 12  | 13.7, | 248.8, | 328.4, | -198.5, | 24.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -191.4, | 17.6,  | 14  | 13.7, | 314.0, | 275.8, | -178.5, | 10.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -160.2, | 3.0,   | 16  | 13.7, | 341.3, | 189.9, | -137.0, | -4.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -110.4, | -11.8, | 18  | 13.7, | 333.6, | 101.5, | -91.1,  | -18.1, |
| 19  | 13.7, | 341.4, | 154.2, | -112.3, | -23.9, | 20  | 13.7, | 340.1, | 204.2, | -132.1, | -29.6, |
| 21  | 13.7, | 328.4, | 248.8, | -148.5, | -34.3, | 22  | 13.7, | 306.8, | 285.7, | -160.4, | -38.1, |
| 23  | 13.7, | 275.8, | 314.0, | -167.5, | -40.6, | 24  | 13.7, | 236.4, | 332.7, | -169.4, | -42.0, |
| 25  | 13.7, | 189.9, | 341.3, | -166.2, | -42.0, | 26  | 13.7, | 138.4, | 339.6, | -158.0, | -41.2, |
| 27  | 13.7, | 101.5, | 333.6, | -148.7, | -40.4, | 28  | 13.7, | 154.2, | 341.4, | -146.8, | -35.2, |
| 29  | 13.7, | 204.2, | 340.1, | -140.5, | -29.9, | 30  | 13.7, | 248.8, | 328.4, | -129.9, | -24.1, |
| 31  | 13.7, | 285.7, | 306.8, | -115.3, | -17.6, | 32  | 13.7, | 314.0, | 275.8, | -97.2,  | -10.5, |
| 33  | 13.7, | 332.7, | 236.4, | -76.2,  | -3.0,  | 34  | 13.7, | 341.3, | 189.9, | -52.9,  | 4.5,   |
| 35  | 13.7, | 339.6, | 138.4, | -28.0,  | 11.8,  | 36  | 13.7, | 333.6, | 101.5, | -10.4,  | 18.1,  |

SOURCE ID: TRU28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -42.5,  | 27.8,  | 2   | 13.7, | 340.1, | 204.2, | -73.5,  | 33.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -102.2, | 37.8,  | 4   | 13.7, | 306.8, | 285.7, | -127.8, | 41.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -149.5, | 43.2,  | 6   | 13.7, | 236.4, | 332.7, | -166.7, | 44.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -178.8, | 43.4,  | 8   | 13.7, | 138.4, | 339.6, | -185.5, | 41.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -188.9, | 40.4,  | 10  | 13.7, | 154.2, | 341.4, | -198.5, | 34.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -203.4, | 28.6,  | 12  | 13.7, | 248.8, | 328.4, | -202.0, | 22.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -194.5, | 15.0,  | 14  | 13.7, | 314.0, | 275.8, | -181.1, | 7.4,   |
| 15  | 13.7, | 332.7, | 236.4, | -162.2, | -0.4,  | 16  | 13.7, | 341.3, | 189.9, | -138.4, | -8.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -111.1, | -15.7, | 18  | 13.7, | 333.6, | 101.5, | -91.1,  | -22.1, |
| 19  | 13.7, | 341.4, | 154.2, | -111.6, | -27.8, | 20  | 13.7, | 340.1, | 204.2, | -130.8, | -33.3, |
| 21  | 13.7, | 328.4, | 248.8, | -146.6, | -37.8, | 22  | 13.7, | 306.8, | 285.7, | -157.9, | -41.1, |
| 23  | 13.7, | 275.8, | 314.0, | -164.4, | -43.2, | 24  | 13.7, | 236.4, | 332.7, | -166.0, | -44.0, |
| 25  | 13.7, | 189.9, | 341.3, | -162.5, | -43.4, | 26  | 13.7, | 138.4, | 339.6, | -154.0, | -41.9, |
| 27  | 13.7, | 101.5, | 333.6, | -144.7, | -40.4, | 28  | 13.7, | 154.2, | 341.4, | -142.9, | -34.5, |
| 29  | 13.7, | 204.2, | 340.1, | -136.7, | -28.6, | 30  | 13.7, | 248.8, | 328.4, | -126.4, | -22.2, |
| 31  | 13.7, | 285.7, | 306.8, | -112.2, | -15.0, | 32  | 13.7, | 314.0, | 275.8, | -94.7,  | -7.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -74.2,  | 0.4,   | 34  | 13.7, | 341.3, | 189.9, | -51.5,  | 8.2,   |
| 35  | 13.7, | 339.6, | 138.4, | -27.2,  | 15.7,  | 36  | 13.7, | 333.6, | 101.5, | -10.3,  | 22.1,  |

SOURCE ID: TRU29

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -43.3,  | 31.6, | 2   | 13.7, | 340.1, | 204.2, | -74.9,  | 36.9, |
| 3   | 13.7, | 328.4, | 248.8, | -104.3, | 41.1, | 4   | 13.7, | 306.8, | 285.7, | -130.4, | 44.0, |
| 5   | 13.7, | 275.8, | 314.0, | -152.6, | 45.6, | 6   | 13.7, | 236.4, | 332.7, | -170.2, | 45.8, |
| 7   | 13.7, | 189.9, | 341.3, | -182.5, | 44.6, | 8   | 13.7, | 138.4, | 339.6, | -189.4, | 42.5, |
| 9   | 13.7, | 101.5, | 333.6, | -192.8, | 40.3, | 10  | 13.7, | 154.2, | 341.4, | -202.3, | 33.7, |
| 11  | 13.7, | 204.2, | 340.1, | -207.0, | 27.2, | 12  | 13.7, | 248.8, | 328.4, | -205.3, | 20.1, |
| 13  | 13.7, | 285.7, | 306.8, | -197.4, | 12.4, | 14  | 13.7, | 314.0, | 275.8, | -183.5, | 4.4,  |

SOURCE ID: TRU30

11:04:36

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -44.9,  | 39.3,  | 2   | 13.7, | 340.1, | 204.2, | -77.8,  | 44.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -108.3, | 47.8,  | 4   | 13.7, | 306.8, | 285.7, | -135.6, | 49.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -158.7, | 50.5,  | 6   | 13.7, | 236.4, | 332.7, | -177.1, | 49.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -190.0, | 47.2,  | 8   | 13.7, | 138.4, | 339.6, | -197.1, | 43.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -200.6, | 40.1,  | 10  | 13.7, | 154.2, | 341.4, | -210.0, | 32.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -214.3, | 24.3,  | 12  | 13.7, | 248.8, | 328.4, | -212.0, | 16.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -203.3, | 7.2,   | 14  | 13.7, | 314.0, | 275.8, | -188.4, | -1.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -167.8, | -10.7, | 16  | 13.7, | 341.3, | 189.9, | -142.1, | -19.3, |
| 17  | 13.7, | 339.6, | 138.4, | -112.8, | -27.4, | 18  | 13.7, | 333.6, | 101.5, | -90.8,  | -33.8, |
| 19  | 13.7, | 341.4, | 154.2, | -109.3, | -39.3, | 20  | 13.7, | 340.1, | 204.2, | -126.4, | -44.2, |
| 21  | 13.7, | 328.4, | 248.8, | -140.4, | -47.8, | 22  | 13.7, | 306.8, | 285.7, | -150.1, | -49.9, |
| 23  | 13.7, | 275.8, | 314.0, | -155.2, | -50.5, | 24  | 13.7, | 236.4, | 332.7, | -155.6, | -49.6, |
| 25  | 13.7, | 189.9, | 341.3, | -151.3, | -47.2, | 26  | 13.7, | 138.4, | 339.6, | -142.4, | -43.7, |
| 27  | 13.7, | 101.5, | 333.6, | -133.0, | -40.1, | 28  | 13.7, | 154.2, | 341.4, | -131.4, | -32.2, |
| 29  | 13.7, | 204.2, | 340.1, | -125.8, | -24.3, | 30  | 13.7, | 248.8, | 328.4, | -116.4, | -16.0, |
| 31  | 13.7, | 285.7, | 306.8, | -103.4, | -7.2,  | 32  | 13.7, | 314.0, | 275.8, | -87.3,  | 1.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -68.6,  | 10.7,  | 34  | 13.7, | 341.3, | 189.9, | -47.8,  | 19.3,  |
| 35  | 13.7, | 339.6, | 138.4, | -25.5,  | 27.4,  | 36  | 13.7, | 333.6, | 101.5, | -10.6,  | 33.8,  |

## SOURCE ID: TRU32

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -45.8,  | 43.3,  | 2   | 13.7, | 340.1, | 204.2, | -79.4,  | 48.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -110.5, | 51.2,  | 4   | 13.7, | 306.8, | 285.7, | -138.4, | 52.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -162.0, | 53.0,  | 6   | 13.7, | 236.4, | 332.7, | -180.7, | 51.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.9, | 48.3,  | 8   | 13.7, | 138.4, | 339.6, | -201.2, | 44.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -204.7, | 39.9,  | 10  | 13.7, | 154.2, | 341.4, | -214.0, | 31.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -218.0, | 22.7,  | 12  | 13.7, | 248.8, | 328.4, | -215.4, | 13.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -206.3, | 4.5,   | 14  | 13.7, | 314.0, | 275.8, | -190.9, | -5.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -169.7, | -14.3, | 16  | 13.7, | 341.3, | 189.9, | -143.3, | -23.2, |
| 17  | 13.7, | 339.6, | 138.4, | -113.3, | -31.4, | 18  | 13.7, | 333.6, | 101.5, | -90.6,  | -37.9, |
| 19  | 13.7, | 341.4, | 154.2, | -108.3, | -43.3, | 20  | 13.7, | 340.1, | 204.2, | -124.9, | -48.0, |
| 21  | 13.7, | 328.4, | 248.8, | -138.2, | -51.2, | 22  | 13.7, | 306.8, | 285.7, | -147.3, | -52.9, |
| 23  | 13.7, | 275.8, | 314.0, | -152.0, | -53.0, | 24  | 13.7, | 236.4, | 332.7, | -152.0, | -51.4, |
| 25  | 13.7, | 189.9, | 341.3, | -147.5, | -48.3, | 26  | 13.7, | 138.4, | 339.6, | -138.4, | -44.2, |
| 27  | 13.7, | 101.5, | 333.6, | -128.9, | -39.9, | 28  | 13.7, | 154.2, | 341.4, | -127.4, | -31.3, |
| 29  | 13.7, | 204.2, | 340.1, | -122.1, | -22.7, | 30  | 13.7, | 248.8, | 328.4, | -113.0, | -13.8, |
| 31  | 13.7, | 285.7, | 306.8, | -100.5, | -4.5,  | 32  | 13.7, | 314.0, | 275.8, | -84.9,  | 5.0,   |
| 33  | 13.7, | 332.7, | 236.4, | -66.8,  | 14.3,  | 34  | 13.7, | 341.3, | 189.9, | -46.6,  | 23.2,  |
| 35  | 13.7, | 339.6, | 138.4, | -25.0,  | 31.4,  | 36  | 13.7, | 333.6, | 101.5, | -10.8,  | 37.9,  |

## SOURCE ID: TRU33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -46.5,  | 47.2,  | 2   | 13.7, | 340.1, | 204.2, | -80.8,  | 51.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -112.6, | 54.7,  | 4   | 13.7, | 306.8, | 285.7, | -141.0, | 55.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -165.1, | 55.5,  | 6   | 13.7, | 236.4, | 332.7, | -184.2, | 53.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -197.6, | 49.7,  | 8   | 13.7, | 138.4, | 339.6, | -205.1, | 44.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -208.7, | 39.8,  | 10  | 13.7, | 154.2, | 341.4, | -217.9, | 30.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -221.8, | 21.3,  | 12  | 13.7, | 248.8, | 328.4, | -218.9, | 11.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -209.3, | 1.9,   | 14  | 13.7, | 314.0, | 275.8, | -193.4, | -8.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -171.6, | -17.8, | 16  | 13.7, | 341.3, | 189.9, | -144.6, | -27.0, |
| 17  | 13.7, | 339.6, | 138.4, | -114.0, | -35.3, | 18  | 13.7, | 333.6, | 101.5, | -90.6,  | -41.9, |
| 19  | 13.7, | 341.4, | 154.2, | -107.6, | -47.2, | 20  | 13.7, | 340.1, | 204.2, | -123.5, | -51.7, |
| 21  | 13.7, | 328.4, | 248.8, | -136.2, | -54.7, | 22  | 13.7, | 306.8, | 285.7, | -144.7, | -55.9, |
| 23  | 13.7, | 275.8, | 314.0, | -148.9, | -55.5, | 24  | 13.7, | 236.4, | 332.7, | -148.5, | -53.4, |
| 25  | 13.7, | 189.9, | 341.3, | -143.7, | -49.7, | 26  | 13.7, | 138.4, | 339.6, | -134.4, | -44.8, |
| 27  | 13.7, | 101.5, | 333.6, | -124.9, | -39.8, | 28  | 13.7, | 154.2, | 341.4, | -123.5, | -30.5, |
| 29  | 13.7, | 204.2, | 340.1, | -118.3, | -21.3, | 30  | 13.7, | 248.8, | 328.4, | -109.5, | -11.8, |
| 31  | 13.7, | 285.7, | 306.8, | -97.4,  | -1.9,  | 32  | 13.7, | 314.0, | 275.8, | -82.4,  | 8.1,   |
| 33  | 13.7, | 332.7, | 236.4, | -64.8,  | 17.8,  | 34  | 13.7, | 341.3, | 189.9, | -45.3,  | 27.0,  |
| 35  | 13.7, | 339.6, | 138.4, | -24.4,  | 35.3,  | 36  | 13.7, | 333.6, | 101.5, | -10.9,  | 41.9,  |

## SOURCE ID: TRU34

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.2,  | 54.9,  | 2   | 13.7, | 340.1, | 204.2, | -83.8,  | 59.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.8, | 61.3,  | 4   | 13.7, | 306.8, | 285.7, | -146.2, | 61.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -171.2, | 60.3,  | 6   | 13.7, | 236.4, | 332.7, | -191.1, | 57.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -205.1, | 52.1,  | 8   | 13.7, | 138.4, | 339.6, | -212.9, | 45.9,  |
| 9   | 13.7, | 101.5, | 333.6, | -216.5, | 39.5,  | 10  | 13.7, | 154.2, | 341.4, | -225.6, | 28.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -229.0, | 18.4,  | 12  | 13.7, | 248.8, | 328.4, | -225.5, | 7.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -215.1, | -3.4,  | 14  | 13.7, | 314.0, | 275.8, | -198.2, | -14.3, |
| 15  | 13.7, | 332.7, | 236.4, | -175.3, | -24.7, | 16  | 13.7, | 341.3, | 189.9, | -147.0, | -34.4, |
| 17  | 13.7, | 339.6, | 138.4, | -115.0, | -43.1, | 18  | 13.7, | 333.6, | 101.5, | -90.3,  | -49.7, |
| 19  | 13.7, | 341.4, | 154.2, | -106.0, | -54.9, | 20  | 13.7, | 340.1, | 204.2, | -120.5, | -59.0, |
| 21  | 13.7, | 328.4, | 248.8, | -132.0, | -61.3, | 22  | 13.7, | 306.8, | 285.7, | -139.5, | -61.7, |
| 23  | 13.7, | 275.8, | 314.0, | -142.7, | -60.3, | 24  | 13.7, | 236.4, | 332.7, | -141.6, | -57.0, |
| 25  | 13.7, | 189.9, | 341.3, | -136.2, | -52.1, | 26  | 13.7, | 138.4, | 339.6, | -126.7, | -45.9, |
| 27  | 13.7, | 101.5, | 333.6, | -117.1, | -39.5, | 28  | 13.7, | 154.2, | 341.4, | -115.8, | -28.9, |
| 29  | 13.7, | 204.2, | 340.1, | -111.1, | -18.4, | 30  | 13.7, | 248.8, | 328.4, | -102.9, | -7.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -91.6,  | 3.4,   | 32  | 13.7, | 314.0, | 275.8, | -77.6,  | 14.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -61.2,  | 24.7,  | 34  | 13.7, | 341.3, | 189.9, | -42.9,  | 34.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -23.3,  | 43.1,  | 36  | 13.7, | 333.6, | 101.5, | -11.2,  | 49.7,  |

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU35

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -48.8,  | 58.8,  | 2   | 13.7, | 340.1, | 204.2, | -85.1,  | 62.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -118.7, | 64.7,  | 4   | 13.7, | 306.8, | 285.7, | -148.8, | 64.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -174.3, | 62.9,  | 6   | 13.7, | 236.4, | 332.7, | -194.5, | 59.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.8, | 53.5,  | 8   | 13.7, | 138.4, | 339.6, | -216.8, | 46.6,  |
| 9   | 13.7, | 101.5, | 333.6, | -220.5, | 39.6,  | 10  | 13.7, | 154.2, | 341.4, | -229.5, | 28.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -232.8, | 17.0,  | 12  | 13.7, | 248.8, | 328.4, | -228.9, | 5.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -218.2, | -5.9,  | 14  | 13.7, | 314.0, | 275.8, | -200.8, | -17.3, |
| 15  | 13.7, | 332.7, | 236.4, | -177.3, | -28.2, | 16  | 13.7, | 341.3, | 189.9, | -148.4, | -38.1, |
| 17  | 13.7, | 339.6, | 138.4, | -115.8, | -47.0, | 18  | 13.7, | 333.6, | 101.5, | -90.3,  | -53.7, |
| 19  | 13.7, | 341.4, | 154.2, | -105.3, | -58.8, | 20  | 13.7, | 340.1, | 204.2, | -119.2, | -62.7, |
| 21  | 13.7, | 328.4, | 248.8, | -130.0, | -64.7, | 22  | 13.7, | 306.8, | 285.7, | -136.9, | -64.8, |
| 23  | 13.7, | 275.8, | 314.0, | -139.7, | -62.9, | 24  | 13.7, | 236.4, | 332.7, | -138.2, | -59.1, |
| 25  | 13.7, | 189.9, | 341.3, | -132.5, | -53.5, | 26  | 13.7, | 138.4, | 339.6, | -122.8, | -46.6, |
| 27  | 13.7, | 101.5, | 333.6, | -113.1, | -39.6, | 28  | 13.7, | 154.2, | 341.4, | -111.9, | -28.2, |
| 29  | 13.7, | 204.2, | 340.1, | -107.3, | -17.0, | 30  | 13.7, | 248.8, | 328.4, | -99.5,  | -5.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -88.6,  | 5.9,   | 32  | 13.7, | 314.0, | 275.8, | -75.0,  | 17.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -59.1,  | 28.2,  | 34  | 13.7, | 341.3, | 189.9, | -41.5,  | 38.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.6,  | 47.0,  | 36  | 13.7, | 333.6, | 101.5, | -11.1,  | 53.7,  |

SOURCE ID: TRU36

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -49.6,  | 62.6,  | 2   | 13.7, | 340.1, | 204.2, | -86.5,  | 66.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -120.8, | 68.1,  | 4   | 13.7, | 306.8, | 285.7, | -151.4, | 67.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -177.4, | 65.3,  | 6   | 13.7, | 236.4, | 332.7, | -197.9, | 60.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -212.5, | 54.7,  | 8   | 13.7, | 138.4, | 339.6, | -220.6, | 47.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -224.4, | 39.5,  | 10  | 13.7, | 154.2, | 341.4, | -233.3, | 27.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -236.4, | 15.6,  | 12  | 13.7, | 248.8, | 328.4, | -232.3, | 3.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -221.1, | -8.5,  | 14  | 13.7, | 314.0, | 275.8, | -203.2, | -20.4, |
| 15  | 13.7, | 332.7, | 236.4, | -179.1, | -31.6, | 16  | 13.7, | 341.3, | 189.9, | -149.6, | -41.9, |
| 17  | 13.7, | 339.6, | 138.4, | -116.3, | -50.9, | 18  | 13.7, | 333.6, | 101.5, | -90.2,  | -57.6, |
| 19  | 13.7, | 341.4, | 154.2, | -104.5, | -62.6, | 20  | 13.7, | 340.1, | 204.2, | -117.7, | -66.3, |
| 21  | 13.7, | 328.4, | 248.8, | -128.0, | -68.1, | 22  | 13.7, | 306.8, | 285.7, | -134.3, | -67.7, |
| 23  | 13.7, | 275.8, | 314.0, | -136.6, | -65.3, | 24  | 13.7, | 236.4, | 332.7, | -134.8, | -60.9, |
| 25  | 13.7, | 189.9, | 341.3, | -128.8, | -54.7, | 26  | 13.7, | 138.4, | 339.6, | -118.9, | -47.2, |
| 27  | 13.7, | 101.5, | 333.6, | -109.2, | -39.5, | 28  | 13.7, | 154.2, | 341.4, | -108.1, | -27.4, |
| 29  | 13.7, | 204.2, | 340.1, | -103.7, | -15.6, | 30  | 13.7, | 248.8, | 328.4, | -96.1,  | -3.6,  |
| 31  | 13.7, | 285.7, | 306.8, | -85.6,  | 8.5,   | 32  | 13.7, | 314.0, | 275.8, | -72.6,  | 20.4,  |
| 33  | 13.7, | 332.7, | 236.4, | -57.3,  | 31.6,  | 34  | 13.7, | 341.3, | 189.9, | -40.3,  | 41.9,  |
| 35  | 13.7, | 339.6, | 138.4, | -22.0,  | 50.9,  | 36  | 13.7, | 333.6, | 101.5, | -11.3,  | 57.6,  |

SOURCE ID: TRU37

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -50.4,  | 66.4,  | 2   | 13.7, | 340.1, | 204.2, | -87.9,  | 70.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -122.8, | 71.4,  | 4   | 13.7, | 306.8, | 285.7, | -153.9, | 70.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -180.4, | 67.7,  | 6   | 13.7, | 236.4, | 332.7, | -201.3, | 62.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -216.2, | 55.9,  | 8   | 13.7, | 138.4, | 339.6, | -224.5, | 47.8,  |
| 9   | 13.7, | 101.5, | 333.6, | -228.2, | 39.4,  | 10  | 13.7, | 154.2, | 341.4, | -237.1, | 26.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -240.0, | 14.2,  | 12  | 13.7, | 248.8, | 328.4, | -235.6, | 1.6,   |
| 13  | 13.7, | 285.7, | 306.8, | -224.0, | -11.1, | 14  | 13.7, | 314.0, | 275.8, | -205.6, | -23.4, |
| 15  | 13.7, | 332.7, | 236.4, | -181.0, | -35.0, | 16  | 13.7, | 341.3, | 189.9, | -150.9, | -45.5, |
| 17  | 13.7, | 339.6, | 138.4, | -116.9, | -54.7, | 18  | 13.7, | 333.6, | 101.5, | -90.1,  | -61.4, |

SOURCE ID: TRU40



| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -52.8,  | 78.2,  | 2   | 13.7, | 340.1, | 204.2, | -92.4,  | 81.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -129.1, | 81.6,  | 4   | 13.7, | 306.8, | 285.7, | -161.9, | 79.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -189.8, | 75.2,  | 6   | 13.7, | 236.4, | 332.7, | -211.9, | 68.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -227.6, | 59.7,  | 8   | 13.7, | 138.4, | 339.6, | -236.4, | 49.5,  |
| 9   | 13.7, | 101.5, | 333.6, | -240.3, | 39.0,  | 10  | 13.7, | 154.2, | 341.4, | -248.9, | 24.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -251.2, | 9.7,   | 12  | 13.7, | 248.8, | 328.4, | -245.8, | -4.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -233.0, | -19.1, | 14  | 13.7, | 314.0, | 275.8, | -213.1, | -32.8, |
| 15  | 13.7, | 332.7, | 236.4, | -186.7, | -45.6, | 16  | 13.7, | 341.3, | 189.9, | -154.7, | -57.0, |
| 17  | 13.7, | 339.6, | 138.4, | -118.7, | -66.6, | 18  | 13.7, | 333.6, | 101.5, | -89.8,  | -73.5, |
| 19  | 13.7, | 341.4, | 154.2, | -101.3, | -78.2, | 20  | 13.7, | 340.1, | 204.2, | -111.9, | -81.1, |
| 21  | 13.7, | 328.4, | 248.8, | -119.6, | -81.6, | 22  | 13.7, | 306.8, | 285.7, | -123.8, | -79.6, |
| 23  | 13.7, | 275.8, | 314.0, | -124.1, | -75.2, | 24  | 13.7, | 236.4, | 332.7, | -120.8, | -68.5, |
| 25  | 13.7, | 189.9, | 341.3, | -113.7, | -59.7, | 26  | 13.7, | 138.4, | 339.6, | -103.2, | -49.5, |
| 27  | 13.7, | 101.5, | 333.6, | -93.3,  | -39.0, | 28  | 13.7, | 154.2, | 341.4, | -92.5,  | -24.2, |
| 29  | 13.7, | 204.2, | 340.1, | -88.9,  | -9.7,  | 30  | 13.7, | 248.8, | 328.4, | -82.6,  | 4.7,   |
| 31  | 13.7, | 285.7, | 306.8, | -73.8,  | 19.1,  | 32  | 13.7, | 314.0, | 275.8, | -62.7,  | 32.8,  |
| 33  | 13.7, | 332.7, | 236.4, | -49.7,  | 45.6,  | 34  | 13.7, | 341.3, | 189.9, | -35.2,  | 57.0,  |
| 35  | 13.7, | 339.6, | 138.4, | -19.7,  | 66.6,  | 36  | 13.7, | 333.6, | 101.5, | -11.7,  | 73.5,  |

SOURCE ID: TRU41

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -54.6,  | 85.8,  | 2   | 13.7, | 340.1, | 204.2, | -95.4,  | 88.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -133.3, | 88.1,  | 4   | 13.7, | 306.8, | 285.7, | -167.2, | 85.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -196.0, | 79.9,  | 6   | 13.7, | 236.4, | 332.7, | -218.8, | 72.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -235.0, | 62.0,  | 8   | 13.7, | 138.4, | 339.6, | -244.1, | 50.4,  |
| 9   | 13.7, | 101.5, | 333.6, | -248.0, | 38.6,  | 10  | 13.7, | 154.2, | 341.4, | -256.5, | 22.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -258.3, | 6.7,   | 12  | 13.7, | 248.8, | 328.4, | -252.3, | -9.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -238.7, | -24.4, | 14  | 13.7, | 314.0, | 275.8, | -217.8, | -39.0, |
| 15  | 13.7, | 332.7, | 236.4, | -190.2, | -52.5, | 16  | 13.7, | 341.3, | 189.9, | -156.9, | -64.4, |
| 17  | 13.7, | 339.6, | 138.4, | -119.6, | -74.3, | 18  | 13.7, | 333.6, | 101.5, | -89.4,  | -81.2, |
| 19  | 13.7, | 341.4, | 154.2, | -99.6,  | -85.8, | 20  | 13.7, | 340.1, | 204.2, | -108.8, | -88.3, |
| 21  | 13.7, | 328.4, | 248.8, | -115.4, | -88.1, | 22  | 13.7, | 306.8, | 285.7, | -118.5, | -85.3, |
| 23  | 13.7, | 275.8, | 314.0, | -118.0, | -79.9, | 24  | 13.7, | 236.4, | 332.7, | -113.8, | -72.0, |
| 25  | 13.7, | 189.9, | 341.3, | -106.3, | -62.0, | 26  | 13.7, | 138.4, | 339.6, | -95.5,  | -50.4, |
| 27  | 13.7, | 101.5, | 333.6, | -85.5,  | -38.6, | 28  | 13.7, | 154.2, | 341.4, | -84.9,  | -22.5, |
| 29  | 13.7, | 204.2, | 340.1, | -81.7,  | -6.7,  | 30  | 13.7, | 248.8, | 328.4, | -76.0,  | 9.0,   |
| 31  | 13.7, | 285.7, | 306.8, | -68.1,  | 24.4,  | 32  | 13.7, | 314.0, | 275.8, | -58.0,  | 39.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -46.2,  | 52.5,  | 34  | 13.7, | 341.3, | 189.9, | -32.9,  | 64.4,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.7,  | 74.3,  | 36  | 13.7, | 333.6, | 101.5, | -12.1,  | 81.2,  |

SOURCE ID: TRU42

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -55.2,  | 89.7,  | 2   | 13.7, | 340.1, | 204.2, | -96.7,  | 92.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -135.3, | 91.6,  | 4   | 13.7, | 306.8, | 285.7, | -169.7, | 88.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -199.0, | 82.5,  | 6   | 13.7, | 236.4, | 332.7, | -222.3, | 74.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -238.8, | 63.4,  | 8   | 13.7, | 138.4, | 339.6, | -248.0, | 51.2,  |
| 9   | 13.7, | 101.5, | 333.6, | -252.0, | 38.7,  | 10  | 13.7, | 154.2, | 341.4, | -260.4, | 21.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -262.1, | 5.4,   | 12  | 13.7, | 248.8, | 328.4, | -255.8, | -10.9, |
| 13  | 13.7, | 285.7, | 306.8, | -241.8, | -26.9, | 14  | 13.7, | 314.0, | 275.8, | -220.4, | -42.0, |
| 15  | 13.7, | 332.7, | 236.4, | -192.3, | -55.9, | 16  | 13.7, | 341.3, | 189.9, | -158.3, | -68.1, |
| 17  | 13.7, | 339.6, | 138.4, | -120.3, | -78.2, | 18  | 13.7, | 333.6, | 101.5, | -89.4,  | -85.2, |
| 19  | 13.7, | 341.4, | 154.2, | -98.9,  | -89.7, | 20  | 13.7, | 340.1, | 204.2, | -107.5, | -92.0, |
| 21  | 13.7, | 328.4, | 248.8, | -113.5, | -91.6, | 22  | 13.7, | 306.8, | 285.7, | -116.0, | -88.4, |
| 23  | 13.7, | 275.8, | 314.0, | -114.9, | -82.5, | 24  | 13.7, | 236.4, | 332.7, | -110.4, | -74.0, |
| 25  | 13.7, | 189.9, | 341.3, | -102.5, | -63.4, | 26  | 13.7, | 138.4, | 339.6, | -91.6,  | -51.2, |
| 27  | 13.7, | 101.5, | 333.6, | -81.6,  | -38.7, | 28  | 13.7, | 154.2, | 341.4, | -81.0,  | -21.8, |
| 29  | 13.7, | 204.2, | 340.1, | -78.0,  | -5.4,  | 30  | 13.7, | 248.8, | 328.4, | -72.6,  | 10.9,  |
| 31  | 13.7, | 285.7, | 306.8, | -65.0,  | 26.9,  | 32  | 13.7, | 314.0, | 275.8, | -55.4,  | 42.0,  |
| 33  | 13.7, | 332.7, | 236.4, | -44.2,  | 55.9,  | 34  | 13.7, | 341.3, | 189.9, | -31.6,  | 68.1,  |
| 35  | 13.7, | 339.6, | 138.4, | -18.0,  | 78.2,  | 36  | 13.7, | 333.6, | 101.5, | -12.1,  | 85.2,  |

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TRU43

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -56.0,  | 93.5,  | 2   | 13.7, | 340.1, | 204.2, | -98.2,  | 95.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -137.3, | 94.9,  | 4   | 13.7, | 306.8, | 285.7, | -172.3, | 91.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -202.1, | 84.9,  | 6   | 13.7, | 236.4, | 332.7, | -225.7, | 75.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -242.5, | 64.6,  | 8   | 13.7, | 138.4, | 339.6, | -251.9, | 51.7,  |
| 9   | 13.7, | 101.5, | 333.6, | -255.9, | 38.5,  | 10  | 13.7, | 154.2, | 341.4, | -264.2, | 21.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -265.7, | 3.9,   | 12  | 13.7, | 248.8, | 328.4, | -259.1, | -13.0, |
| 13  | 13.7, | 285.7, | 306.8, | -244.7, | -29.5, | 14  | 13.7, | 314.0, | 275.8, | -222.8, | -45.1, |
| 15  | 13.7, | 332.7, | 236.4, | -194.1, | -59.4, | 16  | 13.7, | 341.3, | 189.9, | -159.6, | -71.8, |
| 17  | 13.7, | 339.6, | 138.4, | -120.9, | -82.1, | 18  | 13.7, | 333.6, | 101.5, | -89.3,  | -89.1, |
| 19  | 13.7, | 341.4, | 154.2, | -98.1,  | -93.5, | 20  | 13.7, | 340.1, | 204.2, | -106.1, | -95.7, |
| 21  | 13.7, | 328.4, | 248.8, | -111.4, | -94.9, | 22  | 13.7, | 306.8, | 285.7, | -113.4, | -91.3, |
| 23  | 13.7, | 275.8, | 314.0, | -111.9, | -84.9, | 24  | 13.7, | 236.4, | 332.7, | -107.0, | -75.9, |
| 25  | 13.7, | 189.9, | 341.3, | -98.8,  | -64.6, | 26  | 13.7, | 138.4, | 339.6, | -87.7,  | -51.7, |
| 27  | 13.7, | 101.5, | 333.6, | -77.7,  | -38.5, | 28  | 13.7, | 154.2, | 341.4, | -77.2,  | -21.1, |
| 29  | 13.7, | 204.2, | 340.1, | -74.3,  | -3.9,  | 30  | 13.7, | 248.8, | 328.4, | -69.3,  | 13.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -62.1,  | 29.5,  | 32  | 13.7, | 314.0, | 275.8, | -53.0,  | 45.1,  |
| 33  | 13.7, | 332.7, | 236.4, | -42.3,  | 59.4,  | 34  | 13.7, | 341.3, | 189.9, | -30.3,  | 71.8,  |
| 35  | 13.7, | 339.6, | 138.4, | -17.4,  | 82.1,  | 36  | 13.7, | 333.6, | 101.5, | -12.2,  | 89.1,  |

SOURCE ID: TRU44

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -56.8,  | 97.3,  | 2   | 13.7, | 340.1, | 204.2, | -99.6,  | 99.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -139.3, | 98.2,  | 4   | 13.7, | 306.8, | 285.7, | -174.9, | 94.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -205.1, | 87.3,  | 6   | 13.7, | 236.4, | 332.7, | -229.1, | 77.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -246.1, | 65.9,  | 8   | 13.7, | 138.4, | 339.6, | -255.7, | 52.3,  |
| 9   | 13.7, | 101.5, | 333.6, | -259.8, | 38.5,  | 10  | 13.7, | 154.2, | 341.4, | -268.0, | 20.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -269.3, | 2.5,   | 12  | 13.7, | 248.8, | 328.4, | -262.4, | -15.0, |
| 13  | 13.7, | 285.7, | 306.8, | -247.6, | -32.0, | 14  | 13.7, | 314.0, | 275.8, | -225.2, | -48.1, |
| 15  | 13.7, | 332.7, | 236.4, | -196.0, | -62.8, | 16  | 13.7, | 341.3, | 189.9, | -160.8, | -75.5, |
| 17  | 13.7, | 339.6, | 138.4, | -121.5, | -85.9, | 18  | 13.7, | 333.6, | 101.5, | -89.2,  | -93.0, |
| 19  | 13.7, | 341.4, | 154.2, | -97.4,  | -97.3, | 20  | 13.7, | 340.1, | 204.2, | -104.7, | -99.3, |
| 21  | 13.7, | 328.4, | 248.8, | -109.4, | -98.2, | 22  | 13.7, | 306.8, | 285.7, | -110.8, | -94.2, |
| 23  | 13.7, | 275.8, | 314.0, | -108.9, | -87.3, | 24  | 13.7, | 236.4, | 332.7, | -103.6, | -77.8, |
| 25  | 13.7, | 189.9, | 341.3, | -95.2,  | -65.9, | 26  | 13.7, | 138.4, | 339.6, | -83.9,  | -52.3, |
| 27  | 13.7, | 101.5, | 333.6, | -73.8,  | -38.5, | 28  | 13.7, | 154.2, | 341.4, | -73.4,  | -20.3, |
| 29  | 13.7, | 204.2, | 340.1, | -70.8,  | -2.5,  | 30  | 13.7, | 248.8, | 328.4, | -66.0,  | 15.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -59.2,  | 32.0,  | 32  | 13.7, | 314.0, | 275.8, | -50.6,  | 48.1,  |
| 33  | 13.7, | 332.7, | 236.4, | -40.4,  | 62.8,  | 34  | 13.7, | 341.3, | 189.9, | -29.1,  | 75.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -16.8,  | 85.9,  | 36  | 13.7, | 333.6, | 101.5, | -12.2,  | 93.0,  |

SOURCE ID: TRU45

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -57.6,  | 101.2,  | 2   | 13.7, | 340.1, | 204.2, | -101.0, | 103.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -141.4, | 101.6,  | 4   | 13.7, | 306.8, | 285.7, | -177.5, | 97.2,   |
| 5   | 13.7, | 275.8, | 314.0, | -208.2, | 89.8,   | 6   | 13.7, | 236.4, | 332.7, | -232.6, | 79.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -249.9, | 67.1,   | 8   | 13.7, | 138.4, | 339.6, | -259.6, | 52.9,   |
| 9   | 13.7, | 101.5, | 333.6, | -263.8, | 38.3,   | 10  | 13.7, | 154.2, | 341.4, | -271.9, | 19.5,   |
| 11  | 13.7, | 204.2, | 340.1, | -273.0, | 1.1,    | 12  | 13.7, | 248.8, | 328.4, | -265.8, | -17.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -250.6, | -34.7,  | 14  | 13.7, | 314.0, | 275.8, | -227.7, | -51.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -197.9, | -66.3,  | 16  | 13.7, | 341.3, | 189.9, | -162.1, | -79.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.1, | -89.8,  | 18  | 13.7, | 333.6, | 101.5, | -89.1,  | -97.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -96.6,  | -101.2, | 20  | 13.7, | 340.1, | 204.2, | -103.2, | -103.0, |
| 21  | 13.7, | 328.4, | 248.8, | -107.3, | -101.6, | 22  | 13.7, | 306.8, | 285.7, | -108.2, | -97.2,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 23 | 13.7, | 275.8, | 314.0, | -105.7, | -89.8, | 24 | 13.7, | 236.4, | 332.7, | -100.1, | -79.7, |
| 25 | 13.7, | 189.9, | 341.3, | -91.4,  | -67.1, | 26 | 13.7, | 138.4, | 339.6, | -79.9,  | -52.9, |
| 27 | 13.7, | 101.5, | 333.6, | -69.8,  | -38.3, | 28 | 13.7, | 154.2, | 341.4, | -69.5,  | -19.5, |
| 29 | 13.7, | 204.2, | 340.1, | -67.0,  | -1.1,  | 30 | 13.7, | 248.8, | 328.4, | -62.6,  | 17.1,  |
| 31 | 13.7, | 285.7, | 306.8, | -56.2,  | 34.7,  | 32 | 13.7, | 314.0, | 275.8, | -48.1,  | 51.2,  |
| 33 | 13.7, | 332.7, | 236.4, | -38.6,  | 66.3,  | 34 | 13.7, | 341.3, | 189.9, | -27.8,  | 79.3,  |
| 35 | 13.7, | 339.6, | 138.4, | -16.3,  | 89.8,  | 36 | 13.7, | 333.6, | 101.5, | -12.4,  | 97.0,  |

SOURCE ID: TRU46

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -58.5,  | 105.2,  | 2   | 13.7, | 340.1, | 204.2, | -102.6, | 106.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -143.6, | 105.0,  | 4   | 13.7, | 306.8, | 285.7, | -180.3, | 100.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -211.5, | 92.2,   | 6   | 13.7, | 236.4, | 332.7, | -236.2, | 81.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -253.8, | 68.3,   | 8   | 13.7, | 138.4, | 339.6, | -263.7, | 53.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -267.8, | 38.1,   | 10  | 13.7, | 154.2, | 341.4, | -275.9, | 18.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -276.8, | -0.5,   | 12  | 13.7, | 248.8, | 328.4, | -269.2, | -19.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -253.5, | -37.4,  | 14  | 13.7, | 314.0, | 275.8, | -230.1, | -54.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -199.7, | -69.9,  | 16  | 13.7, | 341.3, | 189.9, | -163.2, | -83.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.6, | -93.9,  | 18  | 13.7, | 333.6, | 101.5, | -88.9,  | -101.0, |
| 19  | 13.7, | 341.4, | 154.2, | -95.7,  | -105.2, | 20  | 13.7, | 340.1, | 204.2, | -101.6, | -106.7, |
| 21  | 13.7, | 328.4, | 248.8, | -105.1, | -105.0, | 22  | 13.7, | 306.8, | 285.7, | -105.4, | -100.1, |
| 23  | 13.7, | 275.8, | 314.0, | -102.5, | -92.2,  | 24  | 13.7, | 236.4, | 332.7, | -96.5,  | -81.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -87.5,  | -68.3,  | 26  | 13.7, | 138.4, | 339.6, | -75.9,  | -53.4,  |
| 27  | 13.7, | 101.5, | 333.6, | -65.8,  | -38.1,  | 28  | 13.7, | 154.2, | 341.4, | -65.5,  | -18.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -63.3,  | 0.5,    | 30  | 13.7, | 248.8, | 328.4, | -59.2,  | 19.3,   |
| 31  | 13.7, | 285.7, | 306.8, | -53.2,  | 37.4,   | 32  | 13.7, | 314.0, | 275.8, | -45.7,  | 54.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -36.7,  | 69.9,   | 34  | 13.7, | 341.3, | 189.9, | -26.7,  | 83.1,   |
| 35  | 13.7, | 339.6, | 138.4, | -15.8,  | 93.9,   | 36  | 13.7, | 333.6, | 101.5, | -12.6,  | 101.0,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP1

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 13.1,   | -102.9, | 2   | 13.7, | 340.1, | 204.2, | 3.9,    | -85.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -5.3,   | -66.0,  | 4   | 13.7, | 306.8, | 285.7, | -14.3,  | -44.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -22.9,  | -21.2,  | 6   | 13.7, | 236.4, | 332.7, | -30.9,  | 2.6,    |
| 7   | 13.7, | 189.9, | 341.3, | -37.8,  | 26.2,   | 8   | 13.7, | 138.4, | 339.6, | -43.7,  | 49.5,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -84.3,  | 106.1,  | 12  | 13.7, | 248.8, | 328.4, | -98.2,  | 119.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -109.1, | 128.5,  | 14  | 13.7, | 314.0, | 275.8, | -116.7, | 134.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -120.8, | 135.5,  | 16  | 13.7, | 341.3, | 189.9, | -121.2, | 132.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -118.6, | 126.1,  | 18  | 13.7, | 333.6, | 101.5, | -123.2, | 116.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -167.2, | 102.9,  | 20  | 13.7, | 340.1, | 204.2, | -208.2, | 85.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -243.5, | 66.0,   | 22  | 13.7, | 306.8, | 285.7, | -271.4, | 44.3,   |
| 23  | 13.7, | 275.8, | 314.0, | -291.0, | 21.2,   | 24  | 13.7, | 236.4, | 332.7, | -301.9, | -2.6,   |
| 25  | 13.7, | 189.9, | 341.3, | -303.5, | -26.2,  | 26  | 13.7, | 138.4, | 339.6, | -295.9, | -49.5,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -255.8, | -106.1, | 30  | 13.7, | 248.8, | 328.4, | -230.2, | -119.1, |
| 31  | 13.7, | 285.7, | 306.8, | -197.7, | -128.5, | 32  | 13.7, | 314.0, | 275.8, | -159.1, | -134.1, |
| 33  | 13.7, | 332.7, | 236.4, | -115.7, | -135.5, | 34  | 13.7, | 341.3, | 189.9, | -68.7,  | -132.8, |
| 35  | 13.7, | 339.6, | 138.4, | -19.7,  | -126.1, | 36  | 13.7, | 333.6, | 101.5, | 21.7,   | -116.3, |

SOURCE ID: TTP2

| IFV | BH    | BW     | BL     | XADJ  | YADJ    | IFV | BH    | BW     | BL     | XADJ | YADJ   |
|-----|-------|--------|--------|-------|---------|-----|-------|--------|--------|------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 12.4, | -100.0, | 2   | 13.7, | 340.1, | 204.2, | 2.8, | -83.1, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 3  | 13.7, | 328.4, | 248.8, | -6.8,   | -63.6,  | 4  | 13.7, | 306.8, | 285.7, | -16.3,  | -42.1,  |
| 5  | 13.7, | 275.8, | 314.0, | -25.2,  | -19.4,  | 6  | 13.7, | 236.4, | 332.7, | -33.4,  | 3.9,    |
| 7  | 13.7, | 189.9, | 341.3, | -40.6,  | 27.1,   | 8  | 13.7, | 138.4, | 339.6, | -46.6,  | 49.8,   |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11 | 13.7, | 204.2, | 340.1, | -87.0,  | 105.0,  | 12 | 13.7, | 248.8, | 328.4, | -100.6, | 117.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -111.3, | 126.6,  | 14 | 13.7, | 314.0, | 275.8, | -118.5, | 131.7,  |
| 15 | 13.7, | 332.7, | 236.4, | -122.1, | 132.9,  | 16 | 13.7, | 341.3, | 189.9, | -122.0, | 130.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -119.0, | 123.2,  | 18 | 13.7, | 333.6, | 101.5, | -123.1, | 113.4,  |
| 19 | 13.7, | 341.4, | 154.2, | -166.6, | 100.0,  | 20 | 13.7, | 340.1, | 204.2, | -207.1, | 83.1,   |
| 21 | 13.7, | 328.4, | 248.8, | -241.9, | 63.6,   | 22 | 13.7, | 306.8, | 285.7, | -269.4, | 42.1,   |
| 23 | 13.7, | 275.8, | 314.0, | -288.7, | 19.4,   | 24 | 13.7, | 236.4, | 332.7, | -299.3, | -3.9,   |
| 25 | 13.7, | 189.9, | 341.3, | -300.7, | -27.1,  | 26 | 13.7, | 138.4, | 339.6, | -293.0, | -49.8,  |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29 | 13.7, | 204.2, | 340.1, | -253.1, | -105.0, | 30 | 13.7, | 248.8, | 328.4, | -227.8, | -117.6, |
| 31 | 13.7, | 285.7, | 306.8, | -195.5, | -126.6, | 32 | 13.7, | 314.0, | 275.8, | -157.3, | -131.7, |
| 33 | 13.7, | 332.7, | 236.4, | -114.3, | -132.9, | 34 | 13.7, | 341.3, | 189.9, | -67.8,  | -130.0, |
| 35 | 13.7, | 339.6, | 138.4, | -19.3,  | -123.2, | 36 | 13.7, | 333.6, | 101.5, | 21.6,   | -113.4, |

SOURCE ID: TTP3

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 11.9,   | -97.0,  | 2   | 13.7, | 340.1, | 204.2, | 1.8,    | -80.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -8.4,   | -60.9,  | 4   | 13.7, | 306.8, | 285.7, | -18.2,  | -39.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -27.6,  | -17.4,  | 6   | 13.7, | 236.4, | 332.7, | -36.1,  | 5.4,    |
| 7   | 13.7, | 189.9, | 341.3, | -43.5,  | 28.2,   | 8   | 13.7, | 138.4, | 339.6, | -49.6,  | 50.4,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -89.8,  | 103.9,  | 12  | 13.7, | 248.8, | 328.4, | -103.3, | 116.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -113.6, | 124.6,  | 14  | 13.7, | 314.0, | 275.8, | -120.5, | 129.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -123.6, | 130.3,  | 16  | 13.7, | 341.3, | 189.9, | -123.1, | 127.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -119.6, | 120.2,  | 18  | 13.7, | 333.6, | 101.5, | -123.1, | 110.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -166.0, | 97.0,   | 20  | 13.7, | 340.1, | 204.2, | -206.1, | 80.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -240.4, | 60.9,   | 22  | 13.7, | 306.8, | 285.7, | -267.5, | 39.8,   |
| 23  | 13.7, | 275.8, | 314.0, | -286.4, | 17.4,   | 24  | 13.7, | 236.4, | 332.7, | -296.6, | -5.4,   |
| 25  | 13.7, | 189.9, | 341.3, | -297.8, | -28.2,  | 26  | 13.7, | 138.4, | 339.6, | -290.0, | -50.4,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -250.2, | -103.9, | 30  | 13.7, | 248.8, | 328.4, | -225.1, | -116.0, |
| 31  | 13.7, | 285.7, | 306.8, | -193.2, | -124.6, | 32  | 13.7, | 314.0, | 275.8, | -155.3, | -129.4, |
| 33  | 13.7, | 332.7, | 236.4, | -112.8, | -130.3, | 34  | 13.7, | 341.3, | 189.9, | -66.8,  | -127.2, |
| 35  | 13.7, | 339.6, | 138.4, | -18.8,  | -120.2, | 36  | 13.7, | 333.6, | 101.5, | 21.6,   | -110.3, |

SOURCE ID: TTP4

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 11.1,   | -94.0,  | 2   | 13.7, | 340.1, | 204.2, | 0.5,    | -77.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -10.1,  | -58.3,  | 4   | 13.7, | 306.8, | 285.7, | -20.5,  | -37.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -30.2,  | -15.6,  | 6   | 13.7, | 236.4, | 332.7, | -38.9,  | 6.8,    |
| 7   | 13.7, | 189.9, | 341.3, | -46.5,  | 29.0,   | 8   | 13.7, | 138.4, | 339.6, | -52.7,  | 50.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -92.7,  | 102.6,  | 12  | 13.7, | 248.8, | 328.4, | -105.9, | 114.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -115.9, | 122.4,  | 14  | 13.7, | 314.0, | 275.8, | -122.3, | 126.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -125.0, | 127.4,  | 16  | 13.7, | 341.3, | 189.9, | -123.9, | 124.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -119.9, | 117.1,  | 18  | 13.7, | 333.6, | 101.5, | -122.8, | 107.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -165.2, | 94.0,   | 20  | 13.7, | 340.1, | 204.2, | -204.7, | 77.3,   |
| 21  | 13.7, | 328.4, | 248.8, | -238.6, | 58.3,   | 22  | 13.7, | 306.8, | 285.7, | -265.2, | 37.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -283.8, | 15.6,   | 24  | 13.7, | 236.4, | 332.7, | -293.8, | -6.8,   |
| 25  | 13.7, | 189.9, | 341.3, | -294.8, | -29.0,  | 26  | 13.7, | 138.4, | 339.6, | -286.8, | -50.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -247.4, | -102.6, | 30  | 13.7, | 248.8, | 328.4, | -222.5, | -114.2, |
| 31  | 13.7, | 285.7, | 306.8, | -190.9, | -122.4, | 32  | 13.7, | 314.0, | 275.8, | -153.5, | -126.8, |
| 33  | 13.7, | 332.7, | 236.4, | -111.4, | -127.4, | 34  | 13.7, | 341.3, | 189.9, | -66.0,  | -124.1, |
| 35  | 13.7, | 339.6, | 138.4, | -18.5,  | -117.1, | 36  | 13.7, | 333.6, | 101.5, | 21.4,   | -107.2, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

## \*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP5

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 10.5,   | -91.0,  | 2   | 13.7, | 340.1, | 204.2, | -0.7,   | -74.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -11.8,  | -55.7,  | 4   | 13.7, | 306.8, | 285.7, | -22.5,  | -35.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -32.6,  | -13.7,  | 6   | 13.7, | 236.4, | 332.7, | -41.6,  | 8.2,    |
| 7   | 13.7, | 189.9, | 341.3, | -49.4,  | 29.9,   | 8   | 13.7, | 138.4, | 339.6, | -55.7,  | 51.1,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -95.5,  | 101.5,  | 12  | 13.7, | 248.8, | 328.4, | -108.5, | 112.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -118.1, | 120.3,  | 14  | 13.7, | 314.0, | 275.8, | -124.2, | 124.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -126.4, | 124.7,  | 16  | 13.7, | 341.3, | 189.9, | -124.9, | 121.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -120.3, | 114.0,  | 18  | 13.7, | 333.6, | 101.5, | -122.7, | 104.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -164.6, | 91.0,   | 20  | 13.7, | 340.1, | 204.2, | -203.6, | 74.5,   |
| 21  | 13.7, | 328.4, | 248.8, | -237.0, | 55.7,   | 22  | 13.7, | 306.8, | 285.7, | -263.2, | 35.3,   |
| 23  | 13.7, | 275.8, | 314.0, | -281.4, | 13.7,   | 24  | 13.7, | 236.4, | 332.7, | -291.1, | -8.2,   |
| 25  | 13.7, | 189.9, | 341.3, | -291.9, | -29.9,  | 26  | 13.7, | 138.4, | 339.6, | -283.8, | -51.1,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -244.5, | -101.5, | 30  | 13.7, | 248.8, | 328.4, | -219.9, | -112.6, |
| 31  | 13.7, | 285.7, | 306.8, | -188.6, | -120.3, | 32  | 13.7, | 314.0, | 275.8, | -151.6, | -124.4, |
| 33  | 13.7, | 332.7, | 236.4, | -110.0, | -124.7, | 34  | 13.7, | 341.3, | 189.9, | -65.0,  | -121.2, |
| 35  | 13.7, | 339.6, | 138.4, | -18.1,  | -114.0, | 36  | 13.7, | 333.6, | 101.5, | 21.2,   | -104.1, |

SOURCE ID: TTP6

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 10.1,   | -88.1,  | 2   | 13.7, | 340.1, | 204.2, | -1.6,   | -71.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -13.1,  | -53.1,  | 4   | 13.7, | 306.8, | 285.7, | -24.3,  | -32.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -34.7,  | -11.8,  | 6   | 13.7, | 236.4, | 332.7, | -44.1,  | 9.8,    |
| 7   | 13.7, | 189.9, | 341.3, | -52.1,  | 31.0,   | 8   | 13.7, | 138.4, | 339.6, | -58.6,  | 51.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11  | 13.7, | 204.2, | 340.1, | -98.3,  | 100.6,  | 12  | 13.7, | 248.8, | 328.4, | -111.1, | 111.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -120.4, | 118.5,  | 14  | 13.7, | 314.0, | 275.8, | -126.1, | 122.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -128.0, | 122.2,  | 16  | 13.7, | 341.3, | 189.9, | -126.0, | 118.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -120.9, | 111.2,  | 18  | 13.7, | 333.6, | 101.5, | -122.8, | 101.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -164.2, | 88.1,   | 20  | 13.7, | 340.1, | 204.2, | -202.7, | 71.7,   |
| 21  | 13.7, | 328.4, | 248.8, | -235.6, | 53.1,   | 22  | 13.7, | 306.8, | 285.7, | -261.4, | 32.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -279.2, | 11.8,   | 24  | 13.7, | 236.4, | 332.7, | -288.6, | -9.8,   |
| 25  | 13.7, | 189.9, | 341.3, | -289.2, | -31.0,  | 26  | 13.7, | 138.4, | 339.6, | -281.0, | -51.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29  | 13.7, | 204.2, | 340.1, | -241.7, | -100.6, | 30  | 13.7, | 248.8, | 328.4, | -217.3, | -111.2, |
| 31  | 13.7, | 285.7, | 306.8, | -186.3, | -118.5, | 32  | 13.7, | 314.0, | 275.8, | -149.7, | -122.2, |
| 33  | 13.7, | 332.7, | 236.4, | -108.4, | -122.2, | 34  | 13.7, | 341.3, | 189.9, | -63.9,  | -118.5, |
| 35  | 13.7, | 339.6, | 138.4, | -17.5,  | -111.2, | 36  | 13.7, | 333.6, | 101.5, | 21.4,   | -101.2, |

SOURCE ID: TTP7

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 9.3,    | -85.3, | 2   | 13.7, | 340.1, | 204.2, | -2.8,   | -69.0, |
| 3   | 13.7, | 328.4, | 248.8, | -14.8,  | -50.7, | 4   | 13.7, | 306.8, | 285.7, | -26.4,  | -30.9, |
| 5   | 13.7, | 275.8, | 314.0, | -37.1,  | -10.1, | 6   | 13.7, | 236.4, | 332.7, | -46.8,  | 11.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -55.0,  | 31.8,  | 8   | 13.7, | 138.4, | 339.6, | -61.5,  | 52.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -101.0, | 99.3,  | 12  | 13.7, | 248.8, | 328.4, | -113.5, | 109.6, |
| 13  | 13.7, | 285.7, | 306.8, | -122.5, | 116.5, | 14  | 13.7, | 314.0, | 275.8, | -127.8, | 119.9, |
| 15  | 13.7, | 332.7, | 236.4, | -129.2, | 119.6, | 16  | 13.7, | 341.3, | 189.9, | -126.8, | 115.7, |
| 17  | 13.7, | 339.6, | 138.4, | -121.2, | 108.3, | 18  | 13.7, | 333.6, | 101.5, | -122.6, | 98.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -163.5, | 85.3,  | 20  | 13.7, | 340.1, | 204.2, | -201.5, | 69.0,  |
| 21  | 13.7, | 328.4, | 248.8, | -234.0, | 50.7,  | 22  | 13.7, | 306.8, | 285.7, | -259.3, | 30.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -276.9, | 10.1,  | 24  | 13.7, | 236.4, | 332.7, | -285.9, | -11.0, |
| 25  | 13.7, | 189.9, | 341.3, | -286.3, | -31.8, | 26  | 13.7, | 138.4, | 339.6, | -278.0, | -52.0, |



|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 7  | 13.7, | 189.9, | 341.3, | -63.7,  | 34.6,   | 8  | 13.7, | 138.4, | 339.6, | -70.6,  | 53.2,   |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 11 | 13.7, | 204.2, | 340.1, | -109.5, | 95.9,   | 12 | 13.7, | 248.8, | 328.4, | -121.2, | 104.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -129.3, | 110.3,  | 14 | 13.7, | 314.0, | 275.8, | -133.4, | 112.6,  |
| 15 | 13.7, | 332.7, | 236.4, | -133.5, | 111.5,  | 16 | 13.7, | 341.3, | 189.9, | -129.5, | 107.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -122.4, | 99.2,   | 18 | 13.7, | 333.6, | 101.5, | -122.2, | 89.1,   |
| 19 | 13.7, | 341.4, | 154.2, | -161.5, | 76.3,   | 20 | 13.7, | 340.1, | 204.2, | -198.0, | 60.6,   |
| 21 | 13.7, | 328.4, | 248.8, | -229.1, | 43.0,   | 22 | 13.7, | 306.8, | 285.7, | -253.2, | 24.1,   |
| 23 | 13.7, | 275.8, | 314.0, | -269.6, | 4.5,    | 24 | 13.7, | 236.4, | 332.7, | -277.8, | -15.3,  |
| 25 | 13.7, | 189.9, | 341.3, | -277.6, | -34.6,  | 26 | 13.7, | 138.4, | 339.6, | -269.0, | -53.2,  |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 29 | 13.7, | 204.2, | 340.1, | -230.6, | -95.9,  | 30 | 13.7, | 248.8, | 328.4, | -207.2, | -104.7, |
| 31 | 13.7, | 285.7, | 306.8, | -177.5, | -110.3, | 32 | 13.7, | 314.0, | 275.8, | -142.4, | -112.6, |
| 33 | 13.7, | 332.7, | 236.4, | -102.9, | -111.5, | 34 | 13.7, | 341.3, | 189.9, | -60.4,  | -107.0, |
| 35 | 13.7, | 339.6, | 138.4, | -16.0,  | -99.2,  | 36 | 13.7, | 333.6, | 101.5, | 20.8,   | -89.1,  |

SOURCE ID: TTP11

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 6.7,    | -73.3,  | 2   | 13.7, | 340.1, | 204.2, | -7.4,   | -57.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -21.3,  | -40.4,  | 4   | 13.7, | 306.8, | 285.7, | -34.6,  | -21.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -46.8,  | -2.6,   | 6   | 13.7, | 236.4, | 332.7, | -57.5,  | 16.7,   |
| 7   | 13.7, | 189.9, | 341.3, | -66.6,  | 35.5,   | 8   | 13.7, | 138.4, | 339.6, | -73.6,  | 53.6,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -97.3,  | 83.8,   |
| 11  | 13.7, | 204.2, | 340.1, | -112.3, | 94.7,   | 12  | 13.7, | 248.8, | 328.4, | -123.8, | 103.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -131.5, | 108.3,  | 14  | 13.7, | 314.0, | 275.8, | -135.3, | 110.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -134.9, | 108.8,  | 16  | 13.7, | 341.3, | 189.9, | -130.5, | 104.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -122.8, | 96.2,   | 18  | 13.7, | 333.6, | 101.5, | -122.1, | 86.1,   |
| 19  | 13.7, | 341.4, | 154.2, | -160.9, | 73.3,   | 20  | 13.7, | 340.1, | 204.2, | -196.8, | 57.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -227.4, | 40.4,   | 22  | 13.7, | 306.8, | 285.7, | -251.1, | 21.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -267.2, | 2.6,    | 24  | 13.7, | 236.4, | 332.7, | -275.1, | -16.7,  |
| 25  | 13.7, | 189.9, | 341.3, | -274.7, | -35.5,  | 26  | 13.7, | 138.4, | 339.6, | -266.0, | -53.6,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -244.1, | -83.8,  |
| 29  | 13.7, | 204.2, | 340.1, | -227.8, | -94.7,  | 30  | 13.7, | 248.8, | 328.4, | -204.6, | -103.1, |
| 31  | 13.7, | 285.7, | 306.8, | -175.2, | -108.3, | 32  | 13.7, | 314.0, | 275.8, | -140.5, | -110.2, |
| 33  | 13.7, | 332.7, | 236.4, | -101.5, | -108.8, | 34  | 13.7, | 341.3, | 189.9, | -59.4,  | -104.1, |
| 35  | 13.7, | 339.6, | 138.4, | -15.6,  | -96.2,  | 36  | 13.7, | 333.6, | 101.5, | 20.6,   | -86.1,  |

SOURCE ID: TTP12

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 6.3,    | -70.5,  | 2   | 13.7, | 340.1, | 204.2, | -8.3,   | -55.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -22.7,  | -37.8,  | 4   | 13.7, | 306.8, | 285.7, | -36.3,  | -19.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -48.9,  | -0.6,   | 6   | 13.7, | 236.4, | 332.7, | -60.0,  | 18.3,   |
| 7   | 13.7, | 189.9, | 341.3, | -69.3,  | 36.6,   | 8   | 13.7, | 138.4, | 339.6, | -76.5,  | 54.2,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -100.2, | 83.4,   |
| 11  | 13.7, | 204.2, | 340.1, | -115.0, | 93.8,   | 12  | 13.7, | 248.8, | 328.4, | -126.4, | 101.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -133.8, | 106.5,  | 14  | 13.7, | 314.0, | 275.8, | -137.2, | 108.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -136.5, | 106.3,  | 16  | 13.7, | 341.3, | 189.9, | -131.6, | 101.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -123.4, | 93.3,   | 18  | 13.7, | 333.6, | 101.5, | -122.2, | 83.2,   |
| 19  | 13.7, | 341.4, | 154.2, | -160.5, | 70.5,   | 20  | 13.7, | 340.1, | 204.2, | -196.0, | 55.0,   |
| 21  | 13.7, | 328.4, | 248.8, | -226.1, | 37.8,   | 22  | 13.7, | 306.8, | 285.7, | -249.4, | 19.5,   |
| 23  | 13.7, | 275.8, | 314.0, | -265.0, | 0.6,    | 24  | 13.7, | 236.4, | 332.7, | -272.7, | -18.3,  |
| 25  | 13.7, | 189.9, | 341.3, | -272.0, | -36.6,  | 26  | 13.7, | 138.4, | 339.6, | -263.1, | -54.2,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -241.2, | -83.4,  |
| 29  | 13.7, | 204.2, | 340.1, | -225.0, | -93.8,  | 30  | 13.7, | 248.8, | 328.4, | -202.0, | -101.7, |
| 31  | 13.7, | 285.7, | 306.8, | -172.9, | -106.5, | 32  | 13.7, | 314.0, | 275.8, | -138.5, | -108.1, |
| 33  | 13.7, | 332.7, | 236.4, | -99.9,  | -106.3, | 34  | 13.7, | 341.3, | 189.9, | -58.3,  | -101.4, |
| 35  | 13.7, | 339.6, | 138.4, | -14.9,  | -93.3,  | 36  | 13.7, | 333.6, | 101.5, | 20.8,   | -83.2,  |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

11:04:36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP13

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 5.6,    | -67.2,  | 2   | 13.7, | 340.1, | 204.2, | -9.5,   | -51.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -24.4,  | -35.0,  | 4   | 13.7, | 306.8, | 285.7, | -38.6,  | -17.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -51.5,  | 1.4,    | 6   | 13.7, | 236.4, | 332.7, | -62.9,  | 19.8,   |
| 7   | 13.7, | 189.9, | 341.3, | -72.4,  | 37.6,   | 8   | 13.7, | 138.4, | 339.6, | -79.7,  | 54.7,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -103.5, | 82.7,   |
| 11  | 13.7, | 204.2, | 340.1, | -118.1, | 92.6,   | 12  | 13.7, | 248.8, | 328.4, | -129.2, | 100.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -136.3, | 104.3,  | 14  | 13.7, | 314.0, | 275.8, | -139.3, | 105.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -138.0, | 103.4,  | 16  | 13.7, | 341.3, | 189.9, | -132.6, | 98.2,   |
| 17  | 13.7, | 339.6, | 138.4, | -123.9, | 90.1,   | 18  | 13.7, | 333.6, | 101.5, | -122.1, | 79.9,   |
| 19  | 13.7, | 341.4, | 154.2, | -159.8, | 67.2,   | 20  | 13.7, | 340.1, | 204.2, | -194.7, | 51.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -224.3, | 35.0,   | 22  | 13.7, | 306.8, | 285.7, | -247.2, | 17.1,   |
| 23  | 13.7, | 275.8, | 314.0, | -262.4, | -1.4,   | 24  | 13.7, | 236.4, | 332.7, | -269.8, | -19.8,  |
| 25  | 13.7, | 189.9, | 341.3, | -268.9, | -37.6,  | 26  | 13.7, | 138.4, | 339.6, | -259.9, | -54.7,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -237.9, | -82.7,  |
| 29  | 13.7, | 204.2, | 340.1, | -222.0, | -92.6,  | 30  | 13.7, | 248.8, | 328.4, | -199.2, | -100.0, |
| 31  | 13.7, | 285.7, | 306.8, | -170.5, | -104.3, | 32  | 13.7, | 314.0, | 275.8, | -136.5, | -105.5, |
| 33  | 13.7, | 332.7, | 236.4, | -98.4,  | -103.4, | 34  | 13.7, | 341.3, | 189.9, | -57.3,  | -98.2,  |
| 35  | 13.7, | 339.6, | 138.4, | -14.5,  | -90.1,  | 36  | 13.7, | 333.6, | 101.5, | 20.6,   | -79.9,  |

SOURCE ID: TTP14

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | 5.0,    | -64.4,  | 2   | 13.7, | 340.1, | 204.2, | -10.6,  | -49.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -26.0,  | -32.6,  | 4   | 13.7, | 306.8, | 285.7, | -40.5,  | -14.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -53.8,  | 3.2,    | 6   | 13.7, | 236.4, | 332.7, | -65.5,  | 21.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -75.2,  | 38.5,   | 8   | 13.7, | 138.4, | 339.6, | -82.6,  | 55.1,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -106.3, | 82.1,   |
| 11  | 13.7, | 204.2, | 340.1, | -120.8, | 91.5,   | 12  | 13.7, | 248.8, | 328.4, | -131.6, | 98.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -138.4, | 102.3,  | 14  | 13.7, | 314.0, | 275.8, | -141.1, | 103.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -139.4, | 100.8,  | 16  | 13.7, | 341.3, | 189.9, | -133.5, | 95.5,   |
| 17  | 13.7, | 339.6, | 138.4, | -124.3, | 87.2,   | 18  | 13.7, | 333.6, | 101.5, | -122.0, | 77.0,   |
| 19  | 13.7, | 341.4, | 154.2, | -159.2, | 64.4,   | 20  | 13.7, | 340.1, | 204.2, | -193.6, | 49.2,   |
| 21  | 13.7, | 328.4, | 248.8, | -222.8, | 32.6,   | 22  | 13.7, | 306.8, | 285.7, | -245.2, | 14.9,   |
| 23  | 13.7, | 275.8, | 314.0, | -260.1, | -3.2,   | 24  | 13.7, | 236.4, | 332.7, | -267.2, | -21.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -266.1, | -38.5,  | 26  | 13.7, | 138.4, | 339.6, | -256.9, | -55.1,  |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -235.1, | -82.1,  |
| 29  | 13.7, | 204.2, | 340.1, | -219.3, | -91.5,  | 30  | 13.7, | 248.8, | 328.4, | -196.8, | -98.4,  |
| 31  | 13.7, | 285.7, | 306.8, | -168.3, | -102.3, | 32  | 13.7, | 314.0, | 275.8, | -134.7, | -103.1, |
| 33  | 13.7, | 332.7, | 236.4, | -97.0,  | -100.8, | 34  | 13.7, | 341.3, | 189.9, | -56.4,  | -95.5,  |
| 35  | 13.7, | 339.6, | 138.4, | -14.1,  | -87.2,  | 36  | 13.7, | 333.6, | 101.5, | 20.5,   | -77.0,  |

SOURCE ID: TTP15

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 4.5,    | -61.4, | 2   | 13.7, | 340.1, | 204.2, | -11.7,  | -46.4, |
| 3   | 13.7, | 328.4, | 248.8, | -27.5,  | -29.9, | 4   | 13.7, | 306.8, | 285.7, | -42.5,  | -12.6, |
| 5   | 13.7, | 275.8, | 314.0, | -56.2,  | 5.1,   | 6   | 13.7, | 236.4, | 332.7, | -68.2,  | 22.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -78.1,  | 39.6,  | 8   | 13.7, | 138.4, | 339.6, | -85.6,  | 55.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -109.3, | 81.6,  |
| 11  | 13.7, | 204.2, | 340.1, | -123.7, | 90.4,  | 12  | 13.7, | 248.8, | 328.4, | -134.3, | 96.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -140.8, | 100.4, | 14  | 13.7, | 314.0, | 275.8, | -143.0, | 100.8, |
| 15  | 13.7, | 332.7, | 236.4, | -140.9, | 98.2,  | 16  | 13.7, | 341.3, | 189.9, | -134.5, | 92.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -124.8, | 84.2,  | 18  | 13.7, | 333.6, | 101.5, | -122.0, | 73.9,  |
| 19  | 13.7, | 341.4, | 154.2, | -158.6, | 61.4,  | 20  | 13.7, | 340.1, | 204.2, | -192.6, | 46.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -221.2, | 29.9,  | 22  | 13.7, | 306.8, | 285.7, | -243.2, | 12.6,  |
| 23  | 13.7, | 275.8, | 314.0, | -257.8, | -5.1,  | 24  | 13.7, | 236.4, | 332.7, | -264.5, | -22.7, |
| 25  | 13.7, | 189.9, | 341.3, | -263.2, | -39.6, | 26  | 13.7, | 138.4, | 339.6, | -254.0, | -55.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -232.1, | -81.6, |
| 29  | 13.7, | 204.2, | 340.1, | -216.4, | -90.4, | 30  | 13.7, | 248.8, | 328.4, | -194.1, | -96.9, |



|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 31 | 13.7, | 285.7, | 306.8, | -166.0, | -100.4, | 32 | 13.7, | 314.0, | 275.8, | -132.8, | -100.8, |
| 33 | 13.7, | 332.7, | 236.4, | -95.5,  | -98.2,  | 34 | 13.7, | 341.3, | 189.9, | -55.4,  | -92.6,  |
| 35 | 13.7, | 339.6, | 138.4, | -13.6,  | -84.2,  | 36 | 13.7, | 333.6, | 101.5, | 20.5,   | -73.9,  |

SOURCE ID: TTP16

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 3.7,    | -58.3, | 2   | 13.7, | 340.1, | 204.2, | -13.0,  | -43.5, |
| 3   | 13.7, | 328.4, | 248.8, | -29.3,  | -27.3, | 4   | 13.7, | 306.8, | 285.7, | -44.7,  | -10.3, |
| 5   | 13.7, | 275.8, | 314.0, | -58.8,  | 7.0,   | 6   | 13.7, | 236.4, | 332.7, | -71.0,  | 24.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -81.1,  | 40.4,  | 8   | 13.7, | 138.4, | 339.6, | -88.8,  | 55.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -112.4, | 80.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -126.6, | 89.1,  | 12  | 13.7, | 248.8, | 328.4, | -136.9, | 95.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -143.1, | 98.1,  | 14  | 13.7, | 314.0, | 275.8, | -144.9, | 98.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -142.3, | 95.3,  | 16  | 13.7, | 341.3, | 189.9, | -135.4, | 89.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.1, | 81.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.7, | 70.8,  |
| 19  | 13.7, | 341.4, | 154.2, | -157.9, | 58.3,  | 20  | 13.7, | 340.1, | 204.2, | -191.2, | 43.5,  |
| 21  | 13.7, | 328.4, | 248.8, | -219.5, | 27.3,  | 22  | 13.7, | 306.8, | 285.7, | -241.0, | 10.3,  |
| 23  | 13.7, | 275.8, | 314.0, | -255.2, | -7.0,  | 24  | 13.7, | 236.4, | 332.7, | -261.7, | -24.1, |
| 25  | 13.7, | 189.9, | 341.3, | -260.2, | -40.4, | 26  | 13.7, | 138.4, | 339.6, | -250.8, | -55.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -229.0, | -80.8, |
| 29  | 13.7, | 204.2, | 340.1, | -213.5, | -89.1, | 30  | 13.7, | 248.8, | 328.4, | -191.5, | -95.1, |
| 31  | 13.7, | 285.7, | 306.8, | -163.7, | -98.1, | 32  | 13.7, | 314.0, | 275.8, | -130.9, | -98.2, |
| 33  | 13.7, | 332.7, | 236.4, | -94.1,  | -95.3, | 34  | 13.7, | 341.3, | 189.9, | -54.5,  | -89.5, |
| 35  | 13.7, | 339.6, | 138.4, | -13.2,  | -81.0, | 36  | 13.7, | 333.6, | 101.5, | 20.3,   | -70.8, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\* 11:04:36

PAGE 69

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP17

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 3.0,    | -55.3, | 2   | 13.7, | 340.1, | 204.2, | -14.2,  | -40.6, |
| 3   | 13.7, | 328.4, | 248.8, | -30.9,  | -24.7, | 4   | 13.7, | 306.8, | 285.7, | -46.8,  | -8.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -61.2,  | 8.8,   | 6   | 13.7, | 236.4, | 332.7, | -73.7,  | 25.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -84.0,  | 41.3,  | 8   | 13.7, | 138.4, | 339.6, | -91.8,  | 56.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -115.4, | 80.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -129.4, | 88.0,  | 12  | 13.7, | 248.8, | 328.4, | -139.5, | 93.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -145.3, | 96.1,  | 14  | 13.7, | 314.0, | 275.8, | -146.7, | 95.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -143.7, | 92.6,  | 16  | 13.7, | 341.3, | 189.9, | -136.3, | 86.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -125.5, | 78.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.6, | 67.7,  |
| 19  | 13.7, | 341.4, | 154.2, | -157.2, | 55.3,  | 20  | 13.7, | 340.1, | 204.2, | -190.1, | 40.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -217.8, | 24.7,  | 22  | 13.7, | 306.8, | 285.7, | -239.0, | 8.1,   |
| 23  | 13.7, | 275.8, | 314.0, | -252.8, | -8.8,  | 24  | 13.7, | 236.4, | 332.7, | -259.0, | -25.5, |
| 25  | 13.7, | 189.9, | 341.3, | -257.3, | -41.3, | 26  | 13.7, | 138.4, | 339.6, | -247.8, | -56.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -226.0, | -80.1, |
| 29  | 13.7, | 204.2, | 340.1, | -210.7, | -88.0, | 30  | 13.7, | 248.8, | 328.4, | -188.9, | -93.5, |
| 31  | 13.7, | 285.7, | 306.8, | -161.4, | -96.1, | 32  | 13.7, | 314.0, | 275.8, | -129.1, | -95.8, |
| 33  | 13.7, | 332.7, | 236.4, | -92.7,  | -92.6, | 34  | 13.7, | 341.3, | 189.9, | -53.6,  | -86.6, |
| 35  | 13.7, | 339.6, | 138.4, | -12.8,  | -78.0, | 36  | 13.7, | 333.6, | 101.5, | 20.2,   | -67.7, |

SOURCE ID: TTP18

| IFV | BH    | BW     | BL     | XADJ   | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|--------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 2.7,   | -52.4, | 2   | 13.7, | 340.1, | 204.2, | -15.0,  | -37.9, |
| 3   | 13.7, | 328.4, | 248.8, | -32.3, | -22.1, | 4   | 13.7, | 306.8, | 285.7, | -48.5,  | -5.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -63.3, | 10.8,  | 6   | 13.7, | 236.4, | 332.7, | -76.2,  | 27.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -86.7, | 42.5,  | 8   | 13.7, | 138.4, | 339.6, | -94.6,  | 57.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,   | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -118.3, | 79.7,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -132.2, | 87.1,  | 12 | 13.7, | 248.8, | 328.4, | -142.1, | 92.1,  |
| 13 | 13.7, | 285.7, | 306.8, | -147.6, | 94.3,  | 14 | 13.7, | 314.0, | 275.8, | -148.7, | 93.7,  |
| 15 | 13.7, | 332.7, | 236.4, | -145.3, | 90.2,  | 16 | 13.7, | 341.3, | 189.9, | -137.4, | 83.9,  |
| 17 | 13.7, | 339.6, | 138.4, | -126.1, | 75.1,  | 18 | 13.7, | 333.6, | 101.5, | -121.7, | 64.8,  |
| 19 | 13.7, | 341.4, | 154.2, | -156.8, | 52.4,  | 20 | 13.7, | 340.1, | 204.2, | -189.2, | 37.9,  |
| 21 | 13.7, | 328.4, | 248.8, | -216.5, | 22.1,  | 22 | 13.7, | 306.8, | 285.7, | -237.2, | 5.8,   |
| 23 | 13.7, | 275.8, | 314.0, | -250.6, | -10.8, | 24 | 13.7, | 236.4, | 332.7, | -256.5, | -27.1, |
| 25 | 13.7, | 189.9, | 341.3, | -254.6, | -42.5, | 26 | 13.7, | 138.4, | 339.6, | -244.9, | -57.0, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -223.1, | -79.7, |
| 29 | 13.7, | 204.2, | 340.1, | -207.9, | -87.1, | 30 | 13.7, | 248.8, | 328.4, | -186.3, | -92.1, |
| 31 | 13.7, | 285.7, | 306.8, | -159.1, | -94.3, | 32 | 13.7, | 314.0, | 275.8, | -127.1, | -93.7, |
| 33 | 13.7, | 332.7, | 236.4, | -91.2,  | -90.2, | 34 | 13.7, | 341.3, | 189.9, | -52.5,  | -83.9, |
| 35 | 13.7, | 339.6, | 138.4, | -12.2,  | -75.1, | 36 | 13.7, | 333.6, | 101.5, | 20.3,   | -64.8, |

SOURCE ID: TTP19

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 1.9,    | -49.2, | 2   | 13.7, | 340.1, | 204.2, | -16.4,  | -34.9, |
| 3   | 13.7, | 328.4, | 248.8, | -34.1,  | -19.4, | 4   | 13.7, | 306.8, | 285.7, | -50.8,  | -3.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -66.0,  | 12.7,  | 6   | 13.7, | 236.4, | 332.7, | -79.2,  | 28.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -89.9,  | 43.3,  | 8   | 13.7, | 138.4, | 339.6, | -97.9,  | 57.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -121.5, | 78.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -135.2, | 85.7,  | 12  | 13.7, | 248.8, | 328.4, | -144.8, | 90.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -150.0, | 92.0,  | 14  | 13.7, | 314.0, | 275.8, | -150.6, | 91.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -146.7, | 87.2,  | 16  | 13.7, | 341.3, | 189.9, | -138.3, | 80.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -126.5, | 71.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.5, | 61.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -156.0, | 49.2,  | 20  | 13.7, | 340.1, | 204.2, | -187.9, | 34.9,  |
| 21  | 13.7, | 328.4, | 248.8, | -214.6, | 19.4,  | 22  | 13.7, | 306.8, | 285.7, | -234.9, | 3.4,   |
| 23  | 13.7, | 275.8, | 314.0, | -248.0, | -12.7, | 24  | 13.7, | 236.4, | 332.7, | -253.5, | -28.5, |
| 25  | 13.7, | 189.9, | 341.3, | -251.4, | -43.3, | 26  | 13.7, | 138.4, | 339.6, | -241.6, | -57.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -219.9, | -78.9, |
| 29  | 13.7, | 204.2, | 340.1, | -204.9, | -85.7, | 30  | 13.7, | 248.8, | 328.4, | -183.6, | -90.2, |
| 31  | 13.7, | 285.7, | 306.8, | -156.8, | -92.0, | 32  | 13.7, | 314.0, | 275.8, | -125.1, | -91.0, |
| 33  | 13.7, | 332.7, | 236.4, | -89.7,  | -87.2, | 34  | 13.7, | 341.3, | 189.9, | -51.6,  | -80.8, |
| 35  | 13.7, | 339.6, | 138.4, | -11.9,  | -71.8, | 36  | 13.7, | 333.6, | 101.5, | 20.0,   | -61.5, |

SOURCE ID: TTP20

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 1.2,    | -46.4, | 2   | 13.7, | 340.1, | 204.2, | -17.5,  | -32.1, |
| 3   | 13.7, | 328.4, | 248.8, | -35.7,  | -16.9, | 4   | 13.7, | 306.8, | 285.7, | -52.8,  | -1.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -68.3,  | 14.5,  | 6   | 13.7, | 236.4, | 332.7, | -81.8,  | 29.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -92.7,  | 44.2,  | 8   | 13.7, | 138.4, | 339.6, | -100.8, | 57.7,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -124.3, | 78.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -137.9, | 84.6,  | 12  | 13.7, | 248.8, | 328.4, | -147.2, | 88.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -152.1, | 90.0,  | 14  | 13.7, | 314.0, | 275.8, | -152.4, | 88.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -148.1, | 84.6,  | 16  | 13.7, | 341.3, | 189.9, | -139.2, | 78.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -126.9, | 69.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.4, | 58.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -155.4, | 46.4,  | 20  | 13.7, | 340.1, | 204.2, | -186.7, | 32.1,  |
| 21  | 13.7, | 328.4, | 248.8, | -213.1, | 16.9,  | 22  | 13.7, | 306.8, | 285.7, | -232.9, | 1.2,   |
| 23  | 13.7, | 275.8, | 314.0, | -245.7, | -14.5, | 24  | 13.7, | 236.4, | 332.7, | -251.0, | -29.8, |
| 25  | 13.7, | 189.9, | 341.3, | -248.6, | -44.2, | 26  | 13.7, | 138.4, | 339.6, | -238.7, | -57.7, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -217.1, | -78.3, |
| 29  | 13.7, | 204.2, | 340.1, | -202.2, | -84.6, | 30  | 13.7, | 248.8, | 328.4, | -181.2, | -88.7, |
| 31  | 13.7, | 285.7, | 306.8, | -154.6, | -90.0, | 32  | 13.7, | 314.0, | 275.8, | -123.4, | -88.7, |
| 33  | 13.7, | 332.7, | 236.4, | -88.4,  | -84.6, | 34  | 13.7, | 341.3, | 189.9, | -50.7,  | -78.0, |
| 35  | 13.7, | 339.6, | 138.4, | -11.5,  | -69.0, | 36  | 13.7, | 333.6, | 101.5, | 19.9,   | -58.6, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 11:04:36

SOURCE ID: TTP21

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | 0.7,    | -43.4, | 2   | 13.7, | 340.1, | 204.2, | -18.6,  | -29.3, |
| 3   | 13.7, | 328.4, | 248.8, | -37.2,  | -14.3, | 4   | 13.7, | 306.8, | 285.7, | -54.8,  | 1.1,   |
| 5   | 13.7, | 275.8, | 314.0, | -70.6,  | 16.5,  | 6   | 13.7, | 236.4, | 332.7, | -84.4,  | 31.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -95.6,  | 45.3,  | 8   | 13.7, | 138.4, | 339.6, | -103.8, | 58.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -127.3, | 77.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -140.8, | 83.6,  | 12  | 13.7, | 248.8, | 328.4, | -149.9, | 87.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -154.5, | 88.1,  | 14  | 13.7, | 314.0, | 275.8, | -154.4, | 86.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -149.6, | 82.0,  | 16  | 13.7, | 341.3, | 189.9, | -140.2, | 75.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -127.4, | 66.0,  | 18  | 13.7, | 333.6, | 101.5, | -121.4, | 55.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -154.9, | 43.4,  | 20  | 13.7, | 340.1, | 204.2, | -185.7, | 29.3,  |
| 21  | 13.7, | 328.4, | 248.8, | -211.5, | 14.3,  | 22  | 13.7, | 306.8, | 285.7, | -230.9, | -1.1,  |
| 23  | 13.7, | 275.8, | 314.0, | -243.3, | -16.5, | 24  | 13.7, | 236.4, | 332.7, | -248.3, | -31.4, |
| 25  | 13.7, | 189.9, | 341.3, | -245.8, | -45.3, | 26  | 13.7, | 138.4, | 339.6, | -235.7, | -58.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -214.1, | -77.8, |
| 29  | 13.7, | 204.2, | 340.1, | -199.3, | -83.6, | 30  | 13.7, | 248.8, | 328.4, | -178.5, | -87.1, |
| 31  | 13.7, | 285.7, | 306.8, | -152.3, | -88.1, | 32  | 13.7, | 314.0, | 275.8, | -121.4, | -86.3, |
| 33  | 13.7, | 332.7, | 236.4, | -86.9,  | -82.0, | 34  | 13.7, | 341.3, | 189.9, | -49.7,  | -75.1, |
| 35  | 13.7, | 339.6, | 138.4, | -11.0,  | -66.0, | 36  | 13.7, | 333.6, | 101.5, | 19.9,   | -55.5, |

SOURCE ID: TTP22

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -0.1,   | -40.3, | 2   | 13.7, | 340.1, | 204.2, | -19.9,  | -26.4, |
| 3   | 13.7, | 328.4, | 248.8, | -39.0,  | -11.7, | 4   | 13.7, | 306.8, | 285.7, | -57.0,  | 3.4,   |
| 5   | 13.7, | 275.8, | 314.0, | -73.2,  | 18.3,  | 6   | 13.7, | 236.4, | 332.7, | -87.2,  | 32.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -98.6,  | 46.1,  | 8   | 13.7, | 138.4, | 339.6, | -107.0, | 58.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -130.4, | 77.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -143.6, | 82.3,  | 12  | 13.7, | 248.8, | 328.4, | -152.5, | 85.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -156.7, | 85.9,  | 14  | 13.7, | 314.0, | 275.8, | -156.2, | 83.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -150.9, | 79.1,  | 16  | 13.7, | 341.3, | 189.9, | -141.1, | 72.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -127.7, | 62.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.1, | 52.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -154.1, | 40.3,  | 20  | 13.7, | 340.1, | 204.2, | -184.4, | 26.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -209.7, | 11.7,  | 22  | 13.7, | 306.8, | 285.7, | -228.7, | -3.4,  |
| 23  | 13.7, | 275.8, | 314.0, | -240.7, | -18.3, | 24  | 13.7, | 236.4, | 332.7, | -245.5, | -32.7, |
| 25  | 13.7, | 189.9, | 341.3, | -242.7, | -46.1, | 26  | 13.7, | 138.4, | 339.6, | -232.6, | -58.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -211.0, | -77.0, |
| 29  | 13.7, | 204.2, | 340.1, | -196.4, | -82.3, | 30  | 13.7, | 248.8, | 328.4, | -175.9, | -85.4, |
| 31  | 13.7, | 285.7, | 306.8, | -150.0, | -85.9, | 32  | 13.7, | 314.0, | 275.8, | -119.6, | -83.8, |
| 33  | 13.7, | 332.7, | 236.4, | -85.5,  | -79.1, | 34  | 13.7, | 341.3, | 189.9, | -48.8,  | -72.0, |
| 35  | 13.7, | 339.6, | 138.4, | -10.7,  | -62.8, | 36  | 13.7, | 333.6, | 101.5, | 19.7,   | -52.4, |

SOURCE ID: TTP23

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -0.7,   | -37.3, | 2   | 13.7, | 340.1, | 204.2, | -21.0,  | -23.6, |
| 3   | 13.7, | 328.4, | 248.8, | -40.6,  | -9.1,  | 4   | 13.7, | 306.8, | 285.7, | -59.0,  | 5.6,   |
| 5   | 13.7, | 275.8, | 314.0, | -75.6,  | 20.2,  | 6   | 13.7, | 236.4, | 332.7, | -90.0,  | 34.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -101.5, | 47.1,  | 8   | 13.7, | 138.4, | 339.6, | -110.0, | 58.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -133.4, | 76.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -146.5, | 81.1,  | 12  | 13.7, | 248.8, | 328.4, | -155.1, | 83.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -159.0, | 83.8,  | 14  | 13.7, | 314.0, | 275.8, | -158.1, | 81.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -152.4, | 76.4,  | 16  | 13.7, | 341.3, | 189.9, | -142.0, | 69.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -128.1, | 59.8,  | 18  | 13.7, | 333.6, | 101.5, | -121.0, | 49.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -153.4, | 37.3,  | 20  | 13.7, | 340.1, | 204.2, | -183.2, | 23.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -208.1, | 9.1,   | 22  | 13.7, | 306.8, | 285.7, | -226.7, | -5.6,  |
| 23  | 13.7, | 275.8, | 314.0, | -238.3, | -20.2, | 24  | 13.7, | 236.4, | 332.7, | -242.8, | -34.1, |
| 25  | 13.7, | 189.9, | 341.3, | -239.8, | -47.1, | 26  | 13.7, | 138.4, | 339.6, | -229.6, | -58.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -208.0, | -76.3, |
| 29  | 13.7, | 204.2, | 340.1, | -193.6, | -81.1, | 30  | 13.7, | 248.8, | 328.4, | -173.3, | -83.7, |
| 31  | 13.7, | 285.7, | 306.8, | -147.8, | -83.8, | 32  | 13.7, | 314.0, | 275.8, | -117.7, | -81.3, |
| 33  | 13.7, | 332.7, | 236.4, | -84.1,  | -76.4, | 34  | 13.7, | 341.3, | 189.9, | -47.9,  | -69.1, |

35 13.7, 339.6, 138.4, -10.2, -59.8, 36 13.7, 333.6, 101.5, 19.6, -49.3,

SOURCE ID: TTP24

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -1.1,   | -34.4, | 2   | 13.7, | 340.1, | 204.2, | -21.9,  | -20.8, |
| 3   | 13.7, | 328.4, | 248.8, | -42.0,  | -6.5,  | 4   | 13.7, | 306.8, | 285.7, | -60.8,  | 7.9,   |
| 5   | 13.7, | 275.8, | 314.0, | -77.8,  | 22.2,  | 6   | 13.7, | 236.4, | 332.7, | -92.4,  | 35.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -104.2, | 48.2,  | 8   | 13.7, | 138.4, | 339.6, | -112.9, | 59.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -136.3, | 76.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -149.2, | 80.2,  | 12  | 13.7, | 248.8, | 328.4, | -157.7, | 82.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -161.3, | 82.0,  | 14  | 13.7, | 314.0, | 275.8, | -160.1, | 79.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -153.9, | 73.9,  | 16  | 13.7, | 341.3, | 189.9, | -143.1, | 66.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -128.7, | 56.9,  | 18  | 13.7, | 333.6, | 101.5, | -121.1, | 46.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -153.0, | 34.4,  | 20  | 13.7, | 340.1, | 204.2, | -182.4, | 20.8,  |
| 21  | 13.7, | 328.4, | 248.8, | -206.8, | 6.5,   | 22  | 13.7, | 306.8, | 285.7, | -224.9, | -7.9,  |
| 23  | 13.7, | 275.8, | 314.0, | -236.2, | -22.2, | 24  | 13.7, | 236.4, | 332.7, | -240.3, | -35.7, |
| 25  | 13.7, | 189.9, | 341.3, | -237.1, | -48.2, | 26  | 13.7, | 138.4, | 339.6, | -226.7, | -59.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -205.1, | -76.0, |
| 29  | 13.7, | 204.2, | 340.1, | -190.8, | -80.2, | 30  | 13.7, | 248.8, | 328.4, | -170.7, | -82.4, |
| 31  | 13.7, | 285.7, | 306.8, | -145.4, | -82.0, | 32  | 13.7, | 314.0, | 275.8, | -115.7, | -79.2, |
| 33  | 13.7, | 332.7, | 236.4, | -82.5,  | -73.9, | 34  | 13.7, | 341.3, | 189.9, | -46.8,  | -66.4, |
| 35  | 13.7, | 339.6, | 138.4, | -9.6,   | -56.9, | 36  | 13.7, | 333.6, | 101.5, | 19.7,   | -46.4, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 11:04:36

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP25

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -1.7,   | -31.7, | 2   | 13.7, | 340.1, | 204.2, | -23.0,  | -18.2, |
| 3   | 13.7, | 328.4, | 248.8, | -43.5,  | -4.2,  | 4   | 13.7, | 306.8, | 285.7, | -62.7,  | 10.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -80.0,  | 23.9,  | 6   | 13.7, | 236.4, | 332.7, | -94.9,  | 37.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -106.9, | 49.0,  | 8   | 13.7, | 138.4, | 339.6, | -115.6, | 59.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -139.0, | 75.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -151.8, | 79.2,  | 12  | 13.7, | 248.8, | 328.4, | -160.0, | 80.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -163.4, | 80.1,  | 14  | 13.7, | 314.0, | 275.8, | -161.8, | 77.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -155.2, | 71.5,  | 16  | 13.7, | 341.3, | 189.9, | -144.0, | 63.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -129.1, | 54.1,  | 18  | 13.7, | 333.6, | 101.5, | -121.0, | 43.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -152.4, | 31.7,  | 20  | 13.7, | 340.1, | 204.2, | -181.3, | 18.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -205.2, | 4.2,   | 22  | 13.7, | 306.8, | 285.7, | -223.0, | -10.0, |
| 23  | 13.7, | 275.8, | 314.0, | -233.9, | -23.9, | 24  | 13.7, | 236.4, | 332.7, | -237.8, | -37.0, |
| 25  | 13.7, | 189.9, | 341.3, | -234.4, | -49.0, | 26  | 13.7, | 138.4, | 339.6, | -223.9, | -59.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -202.4, | -75.3, |
| 29  | 13.7, | 204.2, | 340.1, | -188.2, | -79.2, | 30  | 13.7, | 248.8, | 328.4, | -168.4, | -80.9, |
| 31  | 13.7, | 285.7, | 306.8, | -143.4, | -80.1, | 32  | 13.7, | 314.0, | 275.8, | -114.0, | -77.0, |
| 33  | 13.7, | 332.7, | 236.4, | -81.2,  | -71.5, | 34  | 13.7, | 341.3, | 189.9, | -45.9,  | -63.8, |
| 35  | 13.7, | 339.6, | 138.4, | -9.2,   | -54.1, | 36  | 13.7, | 333.6, | 101.5, | 19.6,   | -43.6, |

SOURCE ID: TTP26

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -2.4,   | -28.8, | 2   | 13.7, | 340.1, | 204.2, | -24.1,  | -15.5, |
| 3   | 13.7, | 328.4, | 248.8, | -45.1,  | -1.7,  | 4   | 13.7, | 306.8, | 285.7, | -64.7,  | 12.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -82.3,  | 25.7,  | 6   | 13.7, | 236.4, | 332.7, | -97.5,  | 38.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -109.7, | 49.9,  | 8   | 13.7, | 138.4, | 339.6, | -118.5, | 60.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -141.9, | 74.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -154.5, | 78.0,  | 12  | 13.7, | 248.8, | 328.4, | -162.5, | 79.3,  |
| 13  | 13.7, | 285.7, | 306.8, | -165.5, | 78.2,  | 14  | 13.7, | 314.0, | 275.8, | -163.6, | 74.6,  |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 15 | 13.7, | 332.7, | 236.4, | -156.6, | 68.9,  | 16 | 13.7, | 341.3, | 189.9, | -144.9, | 61.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -129.5, | 51.2,  | 18 | 13.7, | 333.6, | 101.5, | -120.9, | 40.7,  |
| 19 | 13.7, | 341.4, | 154.2, | -151.8, | 28.8,  | 20 | 13.7, | 340.1, | 204.2, | -180.2, | 15.5,  |
| 21 | 13.7, | 328.4, | 248.8, | -203.7, | 1.7,   | 22 | 13.7, | 306.8, | 285.7, | -221.0, | -12.2, |
| 23 | 13.7, | 275.8, | 314.0, | -231.6, | -25.7, | 24 | 13.7, | 236.4, | 332.7, | -235.2, | -38.4, |
| 25 | 13.7, | 189.9, | 341.3, | -231.6, | -49.9, | 26 | 13.7, | 138.4, | 339.6, | -221.0, | -60.3, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -199.5, | -74.7, |
| 29 | 13.7, | 204.2, | 340.1, | -185.5, | -78.0, | 30 | 13.7, | 248.8, | 328.4, | -165.9, | -79.3, |
| 31 | 13.7, | 285.7, | 306.8, | -141.2, | -78.2, | 32 | 13.7, | 314.0, | 275.8, | -112.2, | -74.6, |
| 33 | 13.7, | 332.7, | 236.4, | -79.8,  | -68.9, | 34 | 13.7, | 341.3, | 189.9, | -45.0,  | -61.0, |
| 35 | 13.7, | 339.6, | 138.4, | -8.9,   | -51.2, | 36 | 13.7, | 333.6, | 101.5, | 19.4,   | -40.7, |

SOURCE ID: TTP27

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -2.9,   | -25.8, | 2   | 13.7, | 340.1, | 204.2, | -25.1,  | -12.6, |
| 3   | 13.7, | 328.4, | 248.8, | -46.6,  | 1.0,   | 4   | 13.7, | 306.8, | 285.7, | -66.6,  | 14.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -84.7,  | 27.6,  | 6   | 13.7, | 236.4, | 332.7, | -100.1, | 39.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -112.5, | 50.9,  | 8   | 13.7, | 138.4, | 339.6, | -121.5, | 60.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -144.9, | 74.2,  |
| 11  | 13.7, | 204.2, | 340.1, | -157.4, | 77.0,  | 12  | 13.7, | 248.8, | 328.4, | -165.2, | 77.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -167.9, | 76.2,  | 14  | 13.7, | 314.0, | 275.8, | -165.5, | 72.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -158.1, | 66.2,  | 16  | 13.7, | 341.3, | 189.9, | -145.9, | 58.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.0, | 48.2,  | 18  | 13.7, | 333.6, | 101.5, | -120.9, | 37.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -151.3, | 25.8,  | 20  | 13.7, | 340.1, | 204.2, | -179.1, | 12.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -202.2, | -1.0,  | 22  | 13.7, | 306.8, | 285.7, | -219.1, | -14.5, |
| 23  | 13.7, | 275.8, | 314.0, | -229.3, | -27.6, | 24  | 13.7, | 236.4, | 332.7, | -232.6, | -39.9, |
| 25  | 13.7, | 189.9, | 341.3, | -228.8, | -50.9, | 26  | 13.7, | 138.4, | 339.6, | -218.0, | -60.8, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -196.5, | -74.2, |
| 29  | 13.7, | 204.2, | 340.1, | -182.7, | -77.0, | 30  | 13.7, | 248.8, | 328.4, | -163.2, | -77.8, |
| 31  | 13.7, | 285.7, | 306.8, | -138.9, | -76.2, | 32  | 13.7, | 314.0, | 275.8, | -110.3, | -72.3, |
| 33  | 13.7, | 332.7, | 236.4, | -78.3,  | -66.2, | 34  | 13.7, | 341.3, | 189.9, | -44.0,  | -58.1, |
| 35  | 13.7, | 339.6, | 138.4, | -8.3,   | -48.2, | 36  | 13.7, | 333.6, | 101.5, | 19.4,   | -37.6, |

SOURCE ID: TTP28

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -3.7,   | -22.8, | 2   | 13.7, | 340.1, | 204.2, | -26.4,  | -9.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -48.4,  | 3.6,   | 4   | 13.7, | 306.8, | 285.7, | -68.9,  | 16.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -87.3,  | 29.5,  | 6   | 13.7, | 236.4, | 332.7, | -103.0, | 41.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -115.6, | 51.8,  | 8   | 13.7, | 138.4, | 339.6, | -124.7, | 61.1,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -147.9, | 73.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -160.3, | 75.7,  | 12  | 13.7, | 248.8, | 328.4, | -167.8, | 76.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -170.1, | 74.0,  | 14  | 13.7, | 314.0, | 275.8, | -167.4, | 69.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -159.5, | 63.3,  | 16  | 13.7, | 341.3, | 189.9, | -146.8, | 55.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.3, | 45.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 34.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -150.5, | 22.8,  | 20  | 13.7, | 340.1, | 204.2, | -177.8, | 9.8,   |
| 21  | 13.7, | 328.4, | 248.8, | -200.4, | -3.6,  | 22  | 13.7, | 306.8, | 285.7, | -216.8, | -16.8, |
| 23  | 13.7, | 275.8, | 314.0, | -226.7, | -29.5, | 24  | 13.7, | 236.4, | 332.7, | -229.7, | -41.3, |
| 25  | 13.7, | 189.9, | 341.3, | -225.7, | -51.8, | 26  | 13.7, | 138.4, | 339.6, | -214.9, | -61.1, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -193.5, | -73.4, |
| 29  | 13.7, | 204.2, | 340.1, | -179.8, | -75.7, | 30  | 13.7, | 248.8, | 328.4, | -160.6, | -76.0, |
| 31  | 13.7, | 285.7, | 306.8, | -136.6, | -74.0, | 32  | 13.7, | 314.0, | 275.8, | -108.4, | -69.7, |
| 33  | 13.7, | 332.7, | 236.4, | -77.0,  | -63.3, | 34  | 13.7, | 341.3, | 189.9, | -43.1,  | -55.1, |
| 35  | 13.7, | 339.6, | 138.4, | -8.0,   | -45.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -34.5, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

## SOURCE ID: TTP29

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -4.3,   | -19.8, | 2   | 13.7, | 340.1, | 204.2, | -27.6,  | -6.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -50.0,  | 6.1,   | 4   | 13.7, | 306.8, | 285.7, | -70.9,  | 19.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -89.7,  | 31.3,  | 6   | 13.7, | 236.4, | 332.7, | -105.7, | 42.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -118.5, | 52.7,  | 8   | 13.7, | 138.4, | 339.6, | -127.7, | 61.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -150.9, | 72.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -163.1, | 74.5,  | 12  | 13.7, | 248.8, | 328.4, | -170.3, | 74.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -172.4, | 71.9,  | 14  | 13.7, | 314.0, | 275.8, | -169.2, | 67.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -160.9, | 60.6,  | 16  | 13.7, | 341.3, | 189.9, | -147.7, | 52.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -130.7, | 42.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.5, | 31.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.8, | 19.8,  | 20  | 13.7, | 340.1, | 204.2, | -176.7, | 6.9,   |
| 21  | 13.7, | 328.4, | 248.8, | -198.7, | -6.1,  | 22  | 13.7, | 306.8, | 285.7, | -214.8, | -19.0, |
| 23  | 13.7, | 275.8, | 314.0, | -224.3, | -31.3, | 24  | 13.7, | 236.4, | 332.7, | -227.0, | -42.7, |
| 25  | 13.7, | 189.9, | 341.3, | -222.8, | -52.7, | 26  | 13.7, | 138.4, | 339.6, | -211.8, | -61.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -190.5, | -72.7, |
| 29  | 13.7, | 204.2, | 340.1, | -177.0, | -74.5, | 30  | 13.7, | 248.8, | 328.4, | -158.1, | -74.4, |
| 31  | 13.7, | 285.7, | 306.8, | -134.4, | -71.9, | 32  | 13.7, | 314.0, | 275.8, | -106.6, | -67.3, |
| 33  | 13.7, | 332.7, | 236.4, | -75.5,  | -60.6, | 34  | 13.7, | 341.3, | 189.9, | -42.2,  | -52.1, |
| 35  | 13.7, | 339.6, | 138.4, | -7.6,   | -42.1, | 36  | 13.7, | 333.6, | 101.5, | 19.1,   | -31.4, |

## SOURCE ID: TTP30

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -4.7,   | -16.9, | 2   | 13.7, | 340.1, | 204.2, | -28.5,  | -4.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -51.4,  | 8.7,   | 4   | 13.7, | 306.8, | 285.7, | -72.7,  | 21.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -91.8,  | 33.3,  | 6   | 13.7, | 236.4, | 332.7, | -108.2, | 44.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -121.2, | 53.8,  | 8   | 13.7, | 138.4, | 339.6, | -130.6, | 62.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -153.8, | 72.4,  |
| 11  | 13.7, | 204.2, | 340.1, | -165.9, | 73.6,  | 12  | 13.7, | 248.8, | 328.4, | -172.9, | 73.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -174.7, | 70.1,  | 14  | 13.7, | 314.0, | 275.8, | -171.2, | 65.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -162.5, | 58.2,  | 16  | 13.7, | 341.3, | 189.9, | -148.8, | 49.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -131.4, | 39.2,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 28.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.4, | 16.9,  | 20  | 13.7, | 340.1, | 204.2, | -175.8, | 4.1,   |
| 21  | 13.7, | 328.4, | 248.8, | -197.4, | -8.7,  | 22  | 13.7, | 306.8, | 285.7, | -213.0, | -21.3, |
| 23  | 13.7, | 275.8, | 314.0, | -222.1, | -33.3, | 24  | 13.7, | 236.4, | 332.7, | -224.5, | -44.2, |
| 25  | 13.7, | 189.9, | 341.3, | -220.1, | -53.8, | 26  | 13.7, | 138.4, | 339.6, | -209.0, | -62.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -187.6, | -72.4, |
| 29  | 13.7, | 204.2, | 340.1, | -174.2, | -73.6, | 30  | 13.7, | 248.8, | 328.4, | -155.5, | -73.0, |
| 31  | 13.7, | 285.7, | 306.8, | -132.0, | -70.1, | 32  | 13.7, | 314.0, | 275.8, | -104.6, | -65.1, |
| 33  | 13.7, | 332.7, | 236.4, | -74.0,  | -58.2, | 34  | 13.7, | 341.3, | 189.9, | -41.1,  | -49.4, |
| 35  | 13.7, | 339.6, | 138.4, | -7.0,   | -39.2, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -28.5, |

## SOURCE ID: TTP31

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -5.2,   | -13.6, | 2   | 13.7, | 340.1, | 204.2, | -29.5,  | -1.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -52.9,  | 11.6,  | 4   | 13.7, | 306.8, | 285.7, | -74.7,  | 23.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -94.3,  | 35.5,  | 6   | 13.7, | 236.4, | 332.7, | -111.0, | 46.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -124.3, | 55.1,  | 8   | 13.7, | 138.4, | 339.6, | -133.8, | 62.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -157.1, | 71.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -169.0, | 72.6,  | 12  | 13.7, | 248.8, | 328.4, | -175.8, | 71.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -177.3, | 68.1,  | 14  | 13.7, | 314.0, | 275.8, | -173.4, | 62.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -164.2, | 55.4,  | 16  | 13.7, | 341.3, | 189.9, | -150.0, | 46.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -132.1, | 36.0,  | 18  | 13.7, | 333.6, | 101.5, | -120.8, | 25.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -149.0, | 13.6,  | 20  | 13.7, | 340.1, | 204.2, | -174.8, | 1.0,   |
| 21  | 13.7, | 328.4, | 248.8, | -195.8, | -11.6, | 22  | 13.7, | 306.8, | 285.7, | -211.0, | -23.9, |
| 23  | 13.7, | 275.8, | 314.0, | -219.7, | -35.5, | 24  | 13.7, | 236.4, | 332.7, | -221.7, | -46.0, |
| 25  | 13.7, | 189.9, | 341.3, | -217.1, | -55.1, | 26  | 13.7, | 138.4, | 339.6, | -205.8, | -62.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -184.3, | -71.9, |
| 29  | 13.7, | 204.2, | 340.1, | -171.0, | -72.6, | 30  | 13.7, | 248.8, | 328.4, | -152.6, | -71.5, |
| 31  | 13.7, | 285.7, | 306.8, | -129.4, | -68.1, | 32  | 13.7, | 314.0, | 275.8, | -102.4, | -62.7, |
| 33  | 13.7, | 332.7, | 236.4, | -72.2,  | -55.4, | 34  | 13.7, | 341.3, | 189.9, | -39.9,  | -46.4, |
| 35  | 13.7, | 339.6, | 138.4, | -6.3,   | -36.0, | 36  | 13.7, | 333.6, | 101.5, | 19.3,   | -25.2, |

SOURCE ID: TTP32

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -5.8,   | -10.8, | 2   | 13.7, | 340.1, | 204.2, | -30.6,  | 1.7,   |
| 3   | 13.7, | 328.4, | 248.8, | -54.5,  | 14.1,  | 4   | 13.7, | 306.8, | 285.7, | -76.7,  | 26.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -96.6,  | 37.3,  | 6   | 13.7, | 236.4, | 332.7, | -113.5, | 47.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -127.0, | 56.0,  | 8   | 13.7, | 138.4, | 339.6, | -136.7, | 63.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -159.9, | 71.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -171.7, | 71.5,  | 12  | 13.7, | 248.8, | 328.4, | -178.3, | 69.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -179.5, | 66.1,  | 14  | 13.7, | 314.0, | 275.8, | -175.2, | 60.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -165.6, | 52.8,  | 16  | 13.7, | 341.3, | 189.9, | -150.9, | 43.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -132.4, | 33.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 22.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -148.4, | 10.8,  | 20  | 13.7, | 340.1, | 204.2, | -173.6, | -1.7,  |
| 21  | 13.7, | 328.4, | 248.8, | -194.3, | -14.1, | 22  | 13.7, | 306.8, | 285.7, | -209.0, | -26.1, |
| 23  | 13.7, | 275.8, | 314.0, | -217.4, | -37.3, | 24  | 13.7, | 236.4, | 332.7, | -219.2, | -47.3, |
| 25  | 13.7, | 189.9, | 341.3, | -214.3, | -56.0, | 26  | 13.7, | 138.4, | 339.6, | -202.9, | -63.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -181.5, | -71.3, |
| 29  | 13.7, | 204.2, | 340.1, | -168.3, | -71.5, | 30  | 13.7, | 248.8, | 328.4, | -150.1, | -69.9, |
| 31  | 13.7, | 285.7, | 306.8, | -127.3, | -66.1, | 32  | 13.7, | 314.0, | 275.8, | -100.6, | -60.4, |
| 33  | 13.7, | 332.7, | 236.4, | -70.9,  | -52.8, | 34  | 13.7, | 341.3, | 189.9, | -39.0,  | -43.6, |
| 35  | 13.7, | 339.6, | 138.4, | -5.9,   | -33.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -22.3, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP33

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -6.3,   | -7.8,  | 2   | 13.7, | 340.1, | 204.2, | -31.7,  | 4.6,   |
| 3   | 13.7, | 328.4, | 248.8, | -56.0,  | 16.8,  | 4   | 13.7, | 306.8, | 285.7, | -78.7,  | 28.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -98.9,  | 39.2,  | 6   | 13.7, | 236.4, | 332.7, | -116.2, | 48.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -129.9, | 57.0,  | 8   | 13.7, | 138.4, | 339.6, | -139.7, | 63.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -162.9, | 70.8,  |
| 11  | 13.7, | 204.2, | 340.1, | -174.6, | 70.5,  | 12  | 13.7, | 248.8, | 328.4, | -181.0, | 68.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -181.8, | 64.2,  | 14  | 13.7, | 314.0, | 275.8, | -177.1, | 58.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -167.1, | 50.2,  | 16  | 13.7, | 341.3, | 189.9, | -152.0, | 40.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -133.0, | 30.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.6, | 19.2,  |
| 19  | 13.7, | 341.4, | 154.2, | -147.8, | 7.8,   | 20  | 13.7, | 340.1, | 204.2, | -172.6, | -4.6,  |
| 21  | 13.7, | 328.4, | 248.8, | -192.8, | -16.8, | 22  | 13.7, | 306.8, | 285.7, | -207.0, | -28.4, |
| 23  | 13.7, | 275.8, | 314.0, | -215.0, | -39.2, | 24  | 13.7, | 236.4, | 332.7, | -216.5, | -48.9, |
| 25  | 13.7, | 189.9, | 341.3, | -211.4, | -57.0, | 26  | 13.7, | 138.4, | 339.6, | -199.9, | -63.8, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -178.5, | -70.8, |
| 29  | 13.7, | 204.2, | 340.1, | -165.5, | -70.5, | 30  | 13.7, | 248.8, | 328.4, | -147.5, | -68.4, |
| 31  | 13.7, | 285.7, | 306.8, | -124.9, | -64.2, | 32  | 13.7, | 314.0, | 275.8, | -98.6,  | -58.1, |
| 33  | 13.7, | 332.7, | 236.4, | -69.3,  | -50.2, | 34  | 13.7, | 341.3, | 189.9, | -37.9,  | -40.7, |
| 35  | 13.7, | 339.6, | 138.4, | -5.4,   | -30.1, | 36  | 13.7, | 333.6, | 101.5, | 19.2,   | -19.2, |

SOURCE ID: TTP34

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -7.1,   | -4.7, | 2   | 13.7, | 340.1, | 204.2, | -32.9,  | 7.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -57.8,  | 19.4, | 4   | 13.7, | 306.8, | 285.7, | -80.9,  | 30.7, |
| 5   | 13.7, | 275.8, | 314.0, | -101.5, | 41.1, | 6   | 13.7, | 236.4, | 332.7, | -119.0, | 50.2, |
| 7   | 13.7, | 189.9, | 341.3, | -133.0, | 57.9, | 8   | 13.7, | 138.4, | 339.6, | -142.9, | 64.1, |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -166.0, | 70.0, |
| 11  | 13.7, | 204.2, | 340.1, | -177.5, | 69.2, | 12  | 13.7, | 248.8, | 328.4, | -183.6, | 66.6, |
| 13  | 13.7, | 285.7, | 306.8, | -184.1, | 62.0, | 14  | 13.7, | 314.0, | 275.8, | -179.0, | 55.5, |
| 15  | 13.7, | 332.7, | 236.4, | -168.5, | 47.3, | 16  | 13.7, | 341.3, | 189.9, | -152.8, | 37.7, |
| 17  | 13.7, | 339.6, | 138.4, | -133.3, | 26.9, | 18  | 13.7, | 333.6, | 101.5, | -120.4, | 16.1, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 19 | 13.7, | 341.4, | 154.2, | -147.0, | 4.7,   | 20 | 13.7, | 340.1, | 204.2, | -171.3, | -7.5,  |
| 21 | 13.7, | 328.4, | 248.8, | -191.0, | -19.4, | 22 | 13.7, | 306.8, | 285.7, | -204.8, | -30.7, |
| 23 | 13.7, | 275.8, | 314.0, | -212.5, | -41.1, | 24 | 13.7, | 236.4, | 332.7, | -213.7, | -50.2, |
| 25 | 13.7, | 189.9, | 341.3, | -208.4, | -57.9, | 26 | 13.7, | 138.4, | 339.6, | -196.7, | -64.1, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -175.4, | -70.0, |
| 29 | 13.7, | 204.2, | 340.1, | -162.6, | -69.2, | 30 | 13.7, | 248.8, | 328.4, | -144.8, | -66.6, |
| 31 | 13.7, | 285.7, | 306.8, | -122.7, | -62.0, | 32 | 13.7, | 314.0, | 275.8, | -96.8,  | -55.5, |
| 33 | 13.7, | 332.7, | 236.4, | -68.0,  | -47.3, | 34 | 13.7, | 341.3, | 189.9, | -37.1,  | -37.7, |
| 35 | 13.7, | 339.6, | 138.4, | -5.1,   | -26.9, | 36 | 13.7, | 333.6, | 101.5, | 18.9,   | -16.1, |

SOURCE ID: TTP35

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -7.8,   | -1.7,  | 2   | 13.7, | 340.1, | 204.2, | -34.1,  | 10.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -59.4,  | 21.9,  | 4   | 13.7, | 306.8, | 285.7, | -82.9,  | 33.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -103.9, | 43.0,  | 6   | 13.7, | 236.4, | 332.7, | -121.7, | 51.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -135.9, | 58.8,  | 8   | 13.7, | 138.4, | 339.6, | -145.9, | 64.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -169.0, | 69.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -180.3, | 68.0,  | 12  | 13.7, | 248.8, | 328.4, | -186.2, | 65.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -186.3, | 59.9,  | 14  | 13.7, | 314.0, | 275.8, | -180.9, | 53.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -169.9, | 44.6,  | 16  | 13.7, | 341.3, | 189.9, | -153.7, | 34.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -133.7, | 23.9,  | 18  | 13.7, | 333.6, | 101.5, | -120.3, | 13.0,  |
| 19  | 13.7, | 341.4, | 154.2, | -146.4, | 1.7,   | 20  | 13.7, | 340.1, | 204.2, | -170.1, | -10.3, |
| 21  | 13.7, | 328.4, | 248.8, | -189.3, | -21.9, | 22  | 13.7, | 306.8, | 285.7, | -202.8, | -33.0, |
| 23  | 13.7, | 275.8, | 314.0, | -210.1, | -43.0, | 24  | 13.7, | 236.4, | 332.7, | -211.0, | -51.7, |
| 25  | 13.7, | 189.9, | 341.3, | -205.4, | -58.8, | 26  | 13.7, | 138.4, | 339.6, | -193.7, | -64.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -172.4, | -69.3, |
| 29  | 13.7, | 204.2, | 340.1, | -159.8, | -68.0, | 30  | 13.7, | 248.8, | 328.4, | -142.2, | -65.0, |
| 31  | 13.7, | 285.7, | 306.8, | -120.4, | -59.9, | 32  | 13.7, | 314.0, | 275.8, | -94.9,  | -53.1, |
| 33  | 13.7, | 332.7, | 236.4, | -66.5,  | -44.6, | 34  | 13.7, | 341.3, | 189.9, | -36.1,  | -34.8, |
| 35  | 13.7, | 339.6, | 138.4, | -4.7,   | -23.9, | 36  | 13.7, | 333.6, | 101.5, | 18.8,   | -13.0, |

SOURCE ID: TTP36

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -8.2,   | 1.2,   | 2   | 13.7, | 340.1, | 204.2, | -35.0,  | 13.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -60.8,  | 24.5,  | 4   | 13.7, | 306.8, | 285.7, | -84.7,  | 35.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -106.1, | 44.9,  | 6   | 13.7, | 236.4, | 332.7, | -124.2, | 53.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -138.6, | 59.9,  | 8   | 13.7, | 138.4, | 339.6, | -148.7, | 65.1,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -171.9, | 68.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -183.1, | 67.1,  | 12  | 13.7, | 248.8, | 328.4, | -188.7, | 63.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -188.7, | 58.1,  | 14  | 13.7, | 314.0, | 275.8, | -182.8, | 50.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -171.4, | 42.1,  | 16  | 13.7, | 341.3, | 189.9, | -154.9, | 32.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -134.3, | 21.1,  | 18  | 13.7, | 333.6, | 101.5, | -120.4, | 10.1,  |
| 19  | 13.7, | 341.4, | 154.2, | -146.0, | -1.2,  | 20  | 13.7, | 340.1, | 204.2, | -169.2, | -13.1, |
| 21  | 13.7, | 328.4, | 248.8, | -188.0, | -24.5, | 22  | 13.7, | 306.8, | 285.7, | -201.0, | -35.3, |
| 23  | 13.7, | 275.8, | 314.0, | -207.9, | -44.9, | 24  | 13.7, | 236.4, | 332.7, | -208.5, | -53.2, |
| 25  | 13.7, | 189.9, | 341.3, | -202.7, | -59.9, | 26  | 13.7, | 138.4, | 339.6, | -190.8, | -65.1, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -169.5, | -68.9, |
| 29  | 13.7, | 204.2, | 340.1, | -157.0, | -67.1, | 30  | 13.7, | 248.8, | 328.4, | -139.7, | -63.6, |
| 31  | 13.7, | 285.7, | 306.8, | -118.1, | -58.1, | 32  | 13.7, | 314.0, | 275.8, | -93.0,  | -50.9, |
| 33  | 13.7, | 332.7, | 236.4, | -65.0,  | -42.1, | 34  | 13.7, | 341.3, | 189.9, | -35.0,  | -32.1, |
| 35  | 13.7, | 339.6, | 138.4, | -4.0,   | -21.1, | 36  | 13.7, | 333.6, | 101.5, | 18.9,   | -10.1, |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 74

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP37



| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -9.0,   | 4.5,   | 2   | 13.7, | 340.1, | 204.2, | -36.4,  | 16.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -62.7,  | 27.4,  | 4   | 13.7, | 306.8, | 285.7, | -87.1,  | 37.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -108.8, | 46.9,  | 6   | 13.7, | 236.4, | 332.7, | -127.3, | 54.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -141.9, | 60.8,  | 8   | 13.7, | 138.4, | 339.6, | -152.1, | 65.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -175.2, | 68.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -186.2, | 65.7,  | 12  | 13.7, | 248.8, | 328.4, | -191.6, | 61.7,  |
| 13  | 13.7, | 285.7, | 306.8, | -191.1, | 55.8,  | 14  | 13.7, | 314.0, | 275.8, | -184.8, | 48.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -172.9, | 39.1,  | 16  | 13.7, | 341.3, | 189.9, | -155.8, | 28.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -134.7, | 17.7,  | 18  | 13.7, | 333.6, | 101.5, | -120.1, | 6.7,   |
| 19  | 13.7, | 341.4, | 154.2, | -145.2, | -4.5,  | 20  | 13.7, | 340.1, | 204.2, | -167.9, | -16.2, |
| 21  | 13.7, | 328.4, | 248.8, | -186.1, | -27.4, | 22  | 13.7, | 306.8, | 285.7, | -198.6, | -37.7, |
| 23  | 13.7, | 275.8, | 314.0, | -205.1, | -46.9, | 24  | 13.7, | 236.4, | 332.7, | -205.4, | -54.7, |
| 25  | 13.7, | 189.9, | 341.3, | -199.5, | -60.8, | 26  | 13.7, | 138.4, | 339.6, | -187.4, | -65.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -166.2, | -68.1, |
| 29  | 13.7, | 204.2, | 340.1, | -153.9, | -65.7, | 30  | 13.7, | 248.8, | 328.4, | -136.8, | -61.7, |
| 31  | 13.7, | 285.7, | 306.8, | -115.6, | -55.8, | 32  | 13.7, | 314.0, | 275.8, | -91.0,  | -48.1, |
| 33  | 13.7, | 332.7, | 236.4, | -63.5,  | -39.1, | 34  | 13.7, | 341.3, | 189.9, | -34.1,  | -28.8, |
| 35  | 13.7, | 339.6, | 138.4, | -3.7,   | -17.7, | 36  | 13.7, | 333.6, | 101.5, | 18.7,   | -6.7,  |

SOURCE ID: TTP38

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -9.6,   | 7.4,   | 2   | 13.7, | 340.1, | 204.2, | -37.5,  | 18.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -64.3,  | 29.8,  | 4   | 13.7, | 306.8, | 285.7, | -89.1,  | 39.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -111.2, | 48.7,  | 6   | 13.7, | 236.4, | 332.7, | -129.9, | 56.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -144.7, | 61.7,  | 8   | 13.7, | 138.4, | 339.6, | -155.0, | 65.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -178.1, | 67.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -188.9, | 64.6,  | 12  | 13.7, | 248.8, | 328.4, | -194.0, | 60.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -193.3, | 53.8,  | 14  | 13.7, | 314.0, | 275.8, | -186.6, | 45.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -174.3, | 36.5,  | 16  | 13.7, | 341.3, | 189.9, | -156.7, | 26.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -135.1, | 14.8,  | 18  | 13.7, | 333.6, | 101.5, | -120.0, | 3.8,   |
| 19  | 13.7, | 341.4, | 154.2, | -144.5, | -7.4,  | 20  | 13.7, | 340.1, | 204.2, | -166.7, | -18.9, |
| 21  | 13.7, | 328.4, | 248.8, | -184.5, | -29.8, | 22  | 13.7, | 306.8, | 285.7, | -196.6, | -39.9, |
| 23  | 13.7, | 275.8, | 314.0, | -202.8, | -48.7, | 24  | 13.7, | 236.4, | 332.7, | -202.8, | -56.1, |
| 25  | 13.7, | 189.9, | 341.3, | -196.7, | -61.7, | 26  | 13.7, | 138.4, | 339.6, | -184.5, | -65.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -163.4, | -67.5, |
| 29  | 13.7, | 204.2, | 340.1, | -151.2, | -64.6, | 30  | 13.7, | 248.8, | 328.4, | -134.4, | -60.1, |
| 31  | 13.7, | 285.7, | 306.8, | -113.5, | -53.8, | 32  | 13.7, | 314.0, | 275.8, | -89.2,  | -45.8, |
| 33  | 13.7, | 332.7, | 236.4, | -62.1,  | -36.5, | 34  | 13.7, | 341.3, | 189.9, | -33.2,  | -26.0, |
| 35  | 13.7, | 339.6, | 138.4, | -3.3,   | -14.8, | 36  | 13.7, | 333.6, | 101.5, | 18.6,   | -3.8,  |

SOURCE ID: TTP39

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -10.2,  | 10.4,  | 2   | 13.7, | 340.1, | 204.2, | -38.5,  | 21.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -65.8,  | 32.5,  | 4   | 13.7, | 306.8, | 285.7, | -91.0,  | 42.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -113.5, | 50.7,  | 6   | 13.7, | 236.4, | 332.7, | -132.5, | 57.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -147.5, | 62.8,  | 8   | 13.7, | 138.4, | 339.6, | -158.0, | 66.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -181.1, | 66.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -191.8, | 63.6,  | 12  | 13.7, | 248.8, | 328.4, | -196.7, | 58.6,  |
| 13  | 13.7, | 285.7, | 306.8, | -195.6, | 51.8,  | 14  | 13.7, | 314.0, | 275.8, | -188.6, | 43.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -175.8, | 33.8,  | 16  | 13.7, | 341.3, | 189.9, | -157.7, | 23.1,  |
| 17  | 13.7, | 339.6, | 138.4, | -135.6, | 11.8,  | 18  | 13.7, | 333.6, | 101.5, | -120.0, | 0.7,   |
| 19  | 13.7, | 341.4, | 154.2, | -144.0, | -10.4, | 20  | 13.7, | 340.1, | 204.2, | -165.7, | -21.8, |
| 21  | 13.7, | 328.4, | 248.8, | -183.0, | -32.5, | 22  | 13.7, | 306.8, | 285.7, | -194.7, | -42.2, |
| 23  | 13.7, | 275.8, | 314.0, | -200.5, | -50.7, | 24  | 13.7, | 236.4, | 332.7, | -200.2, | -57.6, |
| 25  | 13.7, | 189.9, | 341.3, | -193.8, | -62.8, | 26  | 13.7, | 138.4, | 339.6, | -181.5, | -66.4, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -160.3, | -66.9, |
| 29  | 13.7, | 204.2, | 340.1, | -148.3, | -63.6, | 30  | 13.7, | 248.8, | 328.4, | -131.7, | -58.6, |
| 31  | 13.7, | 285.7, | 306.8, | -111.1, | -51.8, | 32  | 13.7, | 314.0, | 275.8, | -87.2,  | -43.5, |
| 33  | 13.7, | 332.7, | 236.4, | -60.6,  | -33.8, | 34  | 13.7, | 341.3, | 189.9, | -32.2,  | -23.1, |
| 35  | 13.7, | 339.6, | 138.4, | -2.8,   | -11.8, | 36  | 13.7, | 333.6, | 101.5, | 18.6,   | -0.7,  |

SOURCE ID: TTP40

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***
11:04:36

```

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -12.0,  | 19.3,  | 2   | 13.7, | 340.1, | 204.2, | -41.9,  | 30.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -70.6,  | 40.3,  | 4   | 13.7, | 306.8, | 285.7, | -97.1,  | 49.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -120.6, | 56.4,  | 6   | 13.7, | 236.4, | 332.7, | -140.5, | 62.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -156.2, | 65.7,  | 8   | 13.7, | 138.4, | 339.6, | -167.1, | 67.8,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -190.0, | 65.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -200.3, | 60.2,  | 12  | 13.7, | 248.8, | 328.4, | -204.5, | 53.8,  |
| 13  | 13.7, | 285.7, | 306.8, | -202.4, | 45.8,  | 14  | 13.7, | 314.0, | 275.8, | -194.2, | 36.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -180.2, | 25.8,  | 16  | 13.7, | 341.3, | 189.9, | -160.6, | 14.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -136.9, | 2.7,   | 18  | 13.7, | 333.6, | 101.5, | -119.8, | -8.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -142.2, | -19.3, | 20  | 13.7, | 340.1, | 204.2, | -162.4, | -30.2, |
| 21  | 13.7, | 328.4, | 248.8, | -178.2, | -40.3, | 22  | 13.7, | 306.8, | 285.7, | -188.6, | -49.1, |

| IFV | BH    | BW     | BL     | XADJ   | YADJ  | IFV | BH    | BW     | BL     | XADJ   | YADJ  |
|-----|-------|--------|--------|--------|-------|-----|-------|--------|--------|--------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -13.6, | 27.9, | 2   | 13.7, | 340.1, | 204.2, | -45.0, | 38.4, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 3  | 13.7, | 328.4, | 248.8, | -75.0,  | 47.8,  | 4  | 13.7, | 306.8, | 285.7, | -102.8, | 55.7,  |
| 5  | 13.7, | 275.8, | 314.0, | -127.4, | 61.9,  | 6  | 13.7, | 236.4, | 332.7, | -148.2, | 66.2,  |
| 7  | 13.7, | 189.9, | 341.3, | -164.5, | 68.5,  | 8  | 13.7, | 138.4, | 339.6, | -175.7, | 69.2,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -198.6, | 63.5,  |
| 11 | 13.7, | 204.2, | 340.1, | -208.5, | 57.1,  | 12 | 13.7, | 248.8, | 328.4, | -212.0, | 49.3,  |
| 13 | 13.7, | 285.7, | 306.8, | -209.1, | 40.0,  | 14 | 13.7, | 314.0, | 275.8, | -199.8, | 29.5,  |
| 15 | 13.7, | 332.7, | 236.4, | -184.5, | 18.2,  | 16 | 13.7, | 341.3, | 189.9, | -163.5, | 6.2,   |
| 17 | 13.7, | 339.6, | 138.4, | -138.3, | -5.9,  | 18 | 13.7, | 333.6, | 101.5, | -119.7, | -17.2, |
| 19 | 13.7, | 341.4, | 154.2, | -140.6, | -27.9, | 20 | 13.7, | 340.1, | 204.2, | -159.2, | -38.4, |
| 21 | 13.7, | 328.4, | 248.8, | -173.7, | -47.8, | 22 | 13.7, | 306.8, | 285.7, | -182.9, | -55.7, |
| 23 | 13.7, | 275.8, | 314.0, | -186.5, | -61.9, | 24 | 13.7, | 236.4, | 332.7, | -184.5, | -66.2, |
| 25 | 13.7, | 189.9, | 341.3, | -176.9, | -68.5, | 26 | 13.7, | 138.4, | 339.6, | -163.8, | -69.2, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -142.8, | -63.5, |
| 29 | 13.7, | 204.2, | 340.1, | -131.6, | -57.1, | 30 | 13.7, | 248.8, | 328.4, | -116.4, | -49.3, |
| 31 | 13.7, | 285.7, | 306.8, | -97.7,  | -40.0, | 32 | 13.7, | 314.0, | 275.8, | -76.0,  | -29.5, |
| 33 | 13.7, | 332.7, | 236.4, | -52.0,  | -18.2, | 34 | 13.7, | 341.3, | 189.9, | -26.4,  | -6.2,  |
| 35 | 13.7, | 339.6, | 138.4, | -0.0,   | 5.9,   | 36 | 13.7, | 333.6, | 101.5, | 18.2,   | 17.2,  |

SOURCE ID: TTP46

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -14.4,  | 31.0,  | 2   | 13.7, | 340.1, | 204.2, | -46.3,  | 41.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -76.8,  | 50.4,  | 4   | 13.7, | 306.8, | 285.7, | -105.0, | 58.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -130.0, | 63.8,  | 6   | 13.7, | 236.4, | 332.7, | -151.1, | 67.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -167.5, | 69.4,  | 8   | 13.7, | 138.4, | 339.6, | -178.9, | 69.5,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -201.7, | 62.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -211.4, | 55.8,  | 12  | 13.7, | 248.8, | 328.4, | -214.6, | 47.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -211.3, | 37.8,  | 14  | 13.7, | 314.0, | 275.8, | -201.6, | 27.0,  |
| 15  | 13.7, | 332.7, | 236.4, | -185.8, | 15.3,  | 16  | 13.7, | 341.3, | 189.9, | -164.3, | 3.1,   |
| 17  | 13.7, | 339.6, | 138.4, | -138.6, | -9.1,  | 18  | 13.7, | 333.6, | 101.5, | -119.4, | -20.3, |
| 19  | 13.7, | 341.4, | 154.2, | -139.8, | -31.0, | 20  | 13.7, | 340.1, | 204.2, | -157.9, | -41.3, |
| 21  | 13.7, | 328.4, | 248.8, | -171.9, | -50.4, | 22  | 13.7, | 306.8, | 285.7, | -180.7, | -58.0, |
| 23  | 13.7, | 275.8, | 314.0, | -184.0, | -63.8, | 24  | 13.7, | 236.4, | 332.7, | -181.6, | -67.6, |
| 25  | 13.7, | 189.9, | 341.3, | -173.8, | -69.4, | 26  | 13.7, | 138.4, | 339.6, | -160.7, | -69.5, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -139.7, | -62.7, |
| 29  | 13.7, | 204.2, | 340.1, | -128.7, | -55.8, | 30  | 13.7, | 248.8, | 328.4, | -113.8, | -47.5, |
| 31  | 13.7, | 285.7, | 306.8, | -95.4,  | -37.8, | 32  | 13.7, | 314.0, | 275.8, | -74.1,  | -27.0, |
| 33  | 13.7, | 332.7, | 236.4, | -50.6,  | -15.3, | 34  | 13.7, | 341.3, | 189.9, | -25.6,  | -3.1,  |
| 35  | 13.7, | 339.6, | 138.4, | 0.3,    | 9.1,   | 36  | 13.7, | 333.6, | 101.5, | 18.0,   | 20.3,  |

SOURCE ID: TTP47

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -15.1,  | 34.0,  | 2   | 13.7, | 340.1, | 204.2, | -47.5,  | 44.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -78.5,  | 53.0,  | 4   | 13.7, | 306.8, | 285.7, | -107.1, | 60.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -132.4, | 65.6,  | 6   | 13.7, | 236.4, | 332.7, | -153.8, | 69.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -170.4, | 70.3,  | 8   | 13.7, | 138.4, | 339.6, | -181.9, | 69.9,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -204.7, | 62.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -214.2, | 54.6,  | 12  | 13.7, | 248.8, | 328.4, | -217.2, | 45.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -213.6, | 35.8,  | 14  | 13.7, | 314.0, | 275.8, | -203.5, | 24.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -187.2, | 12.6,  | 16  | 13.7, | 341.3, | 189.9, | -165.3, | 0.2,   |
| 17  | 13.7, | 339.6, | 138.4, | -139.1, | -12.1, | 18  | 13.7, | 333.6, | 101.5, | -119.3, | -23.4, |
| 19  | 13.7, | 341.4, | 154.2, | -139.1, | -34.0, | 20  | 13.7, | 340.1, | 204.2, | -156.8, | -44.2, |
| 21  | 13.7, | 328.4, | 248.8, | -170.3, | -53.0, | 22  | 13.7, | 306.8, | 285.7, | -178.6, | -60.2, |
| 23  | 13.7, | 275.8, | 314.0, | -181.5, | -65.6, | 24  | 13.7, | 236.4, | 332.7, | -178.9, | -69.0, |
| 25  | 13.7, | 189.9, | 341.3, | -170.9, | -70.3, | 26  | 13.7, | 138.4, | 339.6, | -157.7, | -69.9, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -136.7, | -62.0, |
| 29  | 13.7, | 204.2, | 340.1, | -125.9, | -54.6, | 30  | 13.7, | 248.8, | 328.4, | -111.2, | -45.9, |
| 31  | 13.7, | 285.7, | 306.8, | -93.1,  | -35.8, | 32  | 13.7, | 314.0, | 275.8, | -72.3,  | -24.6, |
| 33  | 13.7, | 332.7, | 236.4, | -49.2,  | -12.6, | 34  | 13.7, | 341.3, | 189.9, | -24.6,  | -0.2,  |
| 35  | 13.7, | 339.6, | 138.4, | 0.7,    | 12.1,  | 36  | 13.7, | 333.6, | 101.5, | 17.8,   | 23.4,  |

SOURCE ID: TTP48

| IFV | BH    | BW     | BL     | XADJ   | YADJ  | IFV | BH    | BW     | BL     | XADJ   | YADJ  |
|-----|-------|--------|--------|--------|-------|-----|-------|--------|--------|--------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -15.4, | 36.9, | 2   | 13.7, | 340.1, | 204.2, | -48.4, | 46.9, |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***
11:04:36

```

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -16.8,  | 43.1,  | 2   | 13.7, | 340.1, | 204.2, | -50.8,  | 52.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -83.2,  | 60.9,  | 4   | 13.7, | 306.8, | 285.7, | -113.1, | 67.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -139.6, | 71.5,  | 6   | 13.7, | 236.4, | 332.7, | -161.8, | 73.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -179.2, | 73.4,  | 8   | 13.7, | 138.4, | 339.6, | -191.0, | 71.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -213.8, | 60.3,  |
| 11  | 13.7, | 204.2, | 340.1, | -222.8, | 51.4,  | 12  | 13.7, | 248.8, | 328.4, | -225.1, | 41.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -220.6, | 29.7,  | 14  | 13.7, | 314.0, | 275.8, | -209.4, | 17.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -191.8, | 4.5,   | 16  | 13.7, | 341.3, | 189.9, | -168.3, | -8.5,  |
| 17  | 13.7, | 339.6, | 138.4, | -140.5, | -21.2, | 18  | 13.7, | 333.6, | 101.5, | -119.2, | -32.6, |
| 19  | 13.7, | 341.4, | 154.2, | -137.4, | -43.1, | 20  | 13.7, | 340.1, | 204.2, | -153.5, | -52.8, |
| 21  | 13.7, | 328.4, | 248.8, | -165.6, | -60.9, | 22  | 13.7, | 306.8, | 285.7, | -172.6, | -67.2, |
| 23  | 13.7, | 275.8, | 314.0, | -174.4, | -71.5, | 24  | 13.7, | 236.4, | 332.7, | -170.9, | -73.5, |
| 25  | 13.7, | 189.9, | 341.3, | -162.2, | -73.4, | 26  | 13.7, | 138.4, | 339.6, | -148.5, | -71.4, |



|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 7  | 13.7, | 189.9, | 341.3, | -188.0, | 76.2,  | 8  | 13.7, | 138.4, | 339.6, | -200.2, | 72.6,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -222.8, | 58.3,  |
| 11 | 13.7, | 204.2, | 340.1, | -231.4, | 47.8,  | 12 | 13.7, | 248.8, | 328.4, | -233.0, | 36.2,  |
| 13 | 13.7, | 285.7, | 306.8, | -227.5, | 23.5,  | 14 | 13.7, | 314.0, | 275.8, | -215.0, | 10.1,  |
| 15 | 13.7, | 332.7, | 236.4, | -196.1, | -3.7,  | 16 | 13.7, | 341.3, | 189.9, | -171.2, | -17.3, |
| 17 | 13.7, | 339.6, | 138.4, | -141.8, | -30.4, | 18 | 13.7, | 333.6, | 101.5, | -118.8, | -41.9, |
| 19 | 13.7, | 341.4, | 154.2, | -135.4, | -52.1, | 20 | 13.7, | 340.1, | 204.2, | -150.0, | -61.4, |
| 21 | 13.7, | 328.4, | 248.8, | -160.6, | -68.8, | 22 | 13.7, | 306.8, | 285.7, | -166.4, | -74.1, |
| 23 | 13.7, | 275.8, | 314.0, | -167.0, | -77.1, | 24 | 13.7, | 236.4, | 332.7, | -162.7, | -77.8, |
| 25 | 13.7, | 189.9, | 341.3, | -153.3, | -76.2, | 26 | 13.7, | 138.4, | 339.6, | -139.4, | -72.6, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -118.6, | -58.3, |
| 29 | 13.7, | 204.2, | 340.1, | -108.6, | -47.8, | 30 | 13.7, | 248.8, | 328.4, | -95.4,  | -36.2, |
| 31 | 13.7, | 285.7, | 306.8, | -79.3,  | -23.5, | 32 | 13.7, | 314.0, | 275.8, | -60.8,  | -10.1, |
| 33 | 13.7, | 332.7, | 236.4, | -40.4,  | 3.7,   | 34 | 13.7, | 341.3, | 189.9, | -18.8,  | 17.3,  |
| 35 | 13.7, | 339.6, | 138.4, | 3.4,    | 30.4,  | 36 | 13.7, | 333.6, | 101.5, | 17.4,   | 41.9,  |

SOURCE ID: TTP54

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -19.1,  | 55.0,  | 2   | 13.7, | 340.1, | 204.2, | -55.1,  | 64.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -89.5,  | 71.4,  | 4   | 13.7, | 306.8, | 285.7, | -121.1, | 76.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -149.1, | 79.1,  | 6   | 13.7, | 236.4, | 332.7, | -172.5, | 79.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -190.7, | 77.3,  | 8   | 13.7, | 138.4, | 339.6, | -203.1, | 73.2,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -225.7, | 57.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -234.2, | 47.0,  | 12  | 13.7, | 248.8, | 328.4, | -235.6, | 34.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -229.8, | 21.7,  | 14  | 13.7, | 314.0, | 275.8, | -217.0, | 7.9,   |
| 15  | 13.7, | 332.7, | 236.4, | -197.6, | -6.1,  | 16  | 13.7, | 341.3, | 189.9, | -172.3, | -20.0, |
| 17  | 13.7, | 339.6, | 138.4, | -142.4, | -33.3, | 18  | 13.7, | 333.6, | 101.5, | -118.9, | -44.8, |
| 19  | 13.7, | 341.4, | 154.2, | -135.0, | -55.0, | 20  | 13.7, | 340.1, | 204.2, | -149.1, | -64.2, |
| 21  | 13.7, | 328.4, | 248.8, | -159.2, | -71.4, | 22  | 13.7, | 306.8, | 285.7, | -164.6, | -76.4, |
| 23  | 13.7, | 275.8, | 314.0, | -164.9, | -79.1, | 24  | 13.7, | 236.4, | 332.7, | -160.2, | -79.4, |
| 25  | 13.7, | 189.9, | 341.3, | -150.6, | -77.3, | 26  | 13.7, | 138.4, | 339.6, | -136.5, | -73.2, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -115.7, | -57.9, |
| 29  | 13.7, | 204.2, | 340.1, | -105.9, | -47.0, | 30  | 13.7, | 248.8, | 328.4, | -92.8,  | -34.9, |
| 31  | 13.7, | 285.7, | 306.8, | -77.0,  | -21.7, | 32  | 13.7, | 314.0, | 275.8, | -58.8,  | -7.9,  |
| 33  | 13.7, | 332.7, | 236.4, | -38.8,  | 6.1,   | 34  | 13.7, | 341.3, | 189.9, | -17.6,  | 20.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 4.1,    | 33.3,  | 36  | 13.7, | 333.6, | 101.5, | 17.5,   | 44.8,  |

SOURCE ID: TTP55

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -20.0,  | 57.9,  | 2   | 13.7, | 340.1, | 204.2, | -56.5,  | 66.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -91.3,  | 73.8,  | 4   | 13.7, | 306.8, | 285.7, | -123.4, | 78.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -151.7, | 80.8,  | 6   | 13.7, | 236.4, | 332.7, | -175.3, | 80.6,  |
| 7   | 13.7, | 189.9, | 341.3, | -193.7, | 78.0,  | 8   | 13.7, | 138.4, | 339.6, | -206.1, | 73.4,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -228.7, | 57.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -236.9, | 45.6,  | 12  | 13.7, | 248.8, | 328.4, | -238.0, | 33.0,  |
| 13  | 13.7, | 285.7, | 306.8, | -231.9, | 19.5,  | 14  | 13.7, | 314.0, | 275.8, | -218.7, | 5.3,   |
| 15  | 13.7, | 332.7, | 236.4, | -198.8, | -9.0,  | 16  | 13.7, | 341.3, | 189.9, | -173.0, | -23.0, |
| 17  | 13.7, | 339.6, | 138.4, | -142.6, | -36.3, | 18  | 13.7, | 333.6, | 101.5, | -118.6, | -47.8, |
| 19  | 13.7, | 341.4, | 154.2, | -134.1, | -57.9, | 20  | 13.7, | 340.1, | 204.2, | -147.7, | -66.9, |
| 21  | 13.7, | 328.4, | 248.8, | -157.4, | -73.8, | 22  | 13.7, | 306.8, | 285.7, | -162.3, | -78.5, |
| 23  | 13.7, | 275.8, | 314.0, | -162.3, | -80.8, | 24  | 13.7, | 236.4, | 332.7, | -157.4, | -80.6, |
| 25  | 13.7, | 189.9, | 341.3, | -147.7, | -78.0, | 26  | 13.7, | 138.4, | 339.6, | -133.4, | -73.4, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -112.8, | -57.1, |
| 29  | 13.7, | 204.2, | 340.1, | -103.1, | -45.6, | 30  | 13.7, | 248.8, | 328.4, | -90.4,  | -33.0, |
| 31  | 13.7, | 285.7, | 306.8, | -74.9,  | -19.5, | 32  | 13.7, | 314.0, | 275.8, | -57.1,  | -5.3,  |
| 33  | 13.7, | 332.7, | 236.4, | -37.6,  | 9.0,   | 34  | 13.7, | 341.3, | 189.9, | -16.9,  | 23.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 4.2,    | 36.3,  | 36  | 13.7, | 333.6, | 101.5, | 17.1,   | 47.8,  |

SOURCE ID: TTP56

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -20.7,  | 60.8, | 2   | 13.7, | 340.1, | 204.2, | -57.6,  | 69.6, |
| 3   | 13.7, | 328.4, | 248.8, | -92.9,  | 76.3, | 4   | 13.7, | 306.8, | 285.7, | -125.3, | 80.7, |
| 5   | 13.7, | 275.8, | 314.0, | -154.0, | 82.6, | 6   | 13.7, | 236.4, | 332.7, | -177.9, | 82.0, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 7  | 13.7, | 189.9, | 341.3, | -196.5, | 78.9,  | 8  | 13.7, | 138.4, | 339.6, | -209.0, | 73.8,  |
| 9  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10 | 13.7, | 154.2, | 341.4, | -231.5, | 56.4,  |
| 11 | 13.7, | 204.2, | 340.1, | -239.7, | 44.5,  | 12 | 13.7, | 248.8, | 328.4, | -240.5, | 31.5,  |
| 13 | 13.7, | 285.7, | 306.8, | -234.0, | 17.5,  | 14 | 13.7, | 314.0, | 275.8, | -220.5, | 3.0,   |
| 15 | 13.7, | 332.7, | 236.4, | -200.2, | -11.6, | 16 | 13.7, | 341.3, | 189.9, | -173.9, | -25.8, |
| 17 | 13.7, | 339.6, | 138.4, | -143.0, | -39.2, | 18 | 13.7, | 333.6, | 101.5, | -118.4, | -50.8, |
| 19 | 13.7, | 341.4, | 154.2, | -133.5, | -60.8, | 20 | 13.7, | 340.1, | 204.2, | -146.6, | -69.6, |
| 21 | 13.7, | 328.4, | 248.8, | -155.8, | -76.3, | 22 | 13.7, | 306.8, | 285.7, | -160.4, | -80.7, |
| 23 | 13.7, | 275.8, | 314.0, | -160.0, | -82.6, | 24 | 13.7, | 236.4, | 332.7, | -154.8, | -82.0, |
| 25 | 13.7, | 189.9, | 341.3, | -144.9, | -78.9, | 26 | 13.7, | 138.4, | 339.6, | -130.5, | -73.8, |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -109.9, | -56.4, |
| 29 | 13.7, | 204.2, | 340.1, | -100.4, | -44.5, | 30 | 13.7, | 248.8, | 328.4, | -87.9,  | -31.5, |
| 31 | 13.7, | 285.7, | 306.8, | -72.7,  | -17.5, | 32 | 13.7, | 314.0, | 275.8, | -55.3,  | -3.0,  |
| 33 | 13.7, | 332.7, | 236.4, | -36.2,  | 11.6,  | 34 | 13.7, | 341.3, | 189.9, | -16.1,  | 25.8,  |
| 35 | 13.7, | 339.6, | 138.4, | 4.6,    | 39.2,  | 36 | 13.7, | 333.6, | 101.5, | 17.0,   | 50.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 79

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP57

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -21.2,  | 63.8,  | 2   | 13.7, | 340.1, | 204.2, | -58.7,  | 72.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -94.4,  | 78.9,  | 4   | 13.7, | 306.8, | 285.7, | -127.3, | 83.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -156.3, | 84.5,  | 6   | 13.7, | 236.4, | 332.7, | -180.6, | 83.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -199.3, | 79.9,  | 8   | 13.7, | 138.4, | 339.6, | -212.0, | 74.3,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -234.5, | 55.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -242.5, | 43.4,  | 12  | 13.7, | 248.8, | 328.4, | -243.1, | 29.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -236.4, | 15.6,  | 14  | 13.7, | 314.0, | 275.8, | -222.4, | 0.7,   |
| 15  | 13.7, | 332.7, | 236.4, | -201.7, | -14.2, | 16  | 13.7, | 341.3, | 189.9, | -174.9, | -28.7, |
| 17  | 13.7, | 339.6, | 138.4, | -143.5, | -42.2, | 18  | 13.7, | 333.6, | 101.5, | -118.4, | -53.8, |
| 19  | 13.7, | 341.4, | 154.2, | -133.0, | -63.8, | 20  | 13.7, | 340.1, | 204.2, | -145.6, | -72.5, |
| 21  | 13.7, | 328.4, | 248.8, | -154.3, | -78.9, | 22  | 13.7, | 306.8, | 285.7, | -158.4, | -83.0, |
| 23  | 13.7, | 275.8, | 314.0, | -157.7, | -84.5, | 24  | 13.7, | 236.4, | 332.7, | -152.1, | -83.5, |
| 25  | 13.7, | 189.9, | 341.3, | -142.0, | -79.9, | 26  | 13.7, | 138.4, | 339.6, | -127.5, | -74.3, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -106.9, | -55.9, |
| 29  | 13.7, | 204.2, | 340.1, | -97.6,  | -43.4, | 30  | 13.7, | 248.8, | 328.4, | -85.3,  | -29.9, |
| 31  | 13.7, | 285.7, | 306.8, | -70.4,  | -15.6, | 32  | 13.7, | 314.0, | 275.8, | -53.4,  | -0.7,  |
| 33  | 13.7, | 332.7, | 236.4, | -34.7,  | 14.2,  | 34  | 13.7, | 341.3, | 189.9, | -15.0,  | 28.7,  |
| 35  | 13.7, | 339.6, | 138.4, | 5.1,    | 42.2,  | 36  | 13.7, | 333.6, | 101.5, | 17.0,   | 53.8,  |

SOURCE ID: TTP58

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.0,  | 66.9,  | 2   | 13.7, | 340.1, | 204.2, | -60.0,  | 75.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -96.2,  | 81.5,  | 4   | 13.7, | 306.8, | 285.7, | -129.5, | 85.3,  |
| 5   | 13.7, | 275.8, | 314.0, | -158.9, | 86.4,  | 6   | 13.7, | 236.4, | 332.7, | -183.4, | 84.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -202.4, | 80.8,  | 8   | 13.7, | 138.4, | 339.6, | -215.2, | 74.6,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -237.6, | 55.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -245.4, | 42.1,  | 12  | 13.7, | 248.8, | 328.4, | -245.8, | 28.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -238.6, | 13.3,  | 14  | 13.7, | 314.0, | 275.8, | -224.3, | -1.9,  |
| 15  | 13.7, | 332.7, | 236.4, | -203.1, | -17.1, | 16  | 13.7, | 341.3, | 189.9, | -175.8, | -31.7, |
| 17  | 13.7, | 339.6, | 138.4, | -143.8, | -45.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -57.0, |
| 19  | 13.7, | 341.4, | 154.2, | -132.2, | -66.9, | 20  | 13.7, | 340.1, | 204.2, | -144.2, | -75.4, |
| 21  | 13.7, | 328.4, | 248.8, | -152.5, | -81.5, | 22  | 13.7, | 306.8, | 285.7, | -156.2, | -85.3, |
| 23  | 13.7, | 275.8, | 314.0, | -155.1, | -86.4, | 24  | 13.7, | 236.4, | 332.7, | -149.3, | -84.9, |
| 25  | 13.7, | 189.9, | 341.3, | -138.9, | -80.8, | 26  | 13.7, | 138.4, | 339.6, | -124.4, | -74.6, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -103.8, | -55.1, |
| 29  | 13.7, | 204.2, | 340.1, | -94.7,  | -42.1, | 30  | 13.7, | 248.8, | 328.4, | -82.6,  | -28.2, |



|    |       |        |        |        |        |    |       |        |        |        |       |
|----|-------|--------|--------|--------|--------|----|-------|--------|--------|--------|-------|
| 31 | 13.7, | 285.7, | 306.8, | -68.1, | -13.3, | 32 | 13.7, | 314.0, | 275.8, | -51.5, | 1.9,  |
| 33 | 13.7, | 332.7, | 236.4, | -33.3, | 17.1,  | 34 | 13.7, | 341.3, | 189.9, | -14.2, | 31.7, |
| 35 | 13.7, | 339.6, | 138.4, | 5.5,   | 45.4,  | 36 | 13.7, | 333.6, | 101.5, | 16.8,  | 57.0, |

SOURCE ID: TTP59

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -22.6,  | 69.9,  | 2   | 13.7, | 340.1, | 204.2, | -61.2,  | 78.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -97.9,  | 84.1,  | 4   | 13.7, | 306.8, | 285.7, | -131.6, | 87.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -161.3, | 88.2,  | 6   | 13.7, | 236.4, | 332.7, | -186.1, | 86.3,  |
| 7   | 13.7, | 189.9, | 341.3, | -205.3, | 81.7,  | 8   | 13.7, | 138.4, | 339.6, | -218.2, | 75.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -240.6, | 54.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -248.2, | 41.0,  | 12  | 13.7, | 248.8, | 328.4, | -248.3, | 26.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -240.9, | 11.3,  | 14  | 13.7, | 314.0, | 275.8, | -226.1, | -4.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -204.5, | -19.8, | 16  | 13.7, | 341.3, | 189.9, | -176.7, | -34.6, |
| 17  | 13.7, | 339.6, | 138.4, | -144.2, | -48.4, | 18  | 13.7, | 333.6, | 101.5, | -118.1, | -60.0, |
| 19  | 13.7, | 341.4, | 154.2, | -131.5, | -69.9, | 20  | 13.7, | 340.1, | 204.2, | -143.1, | -78.2, |
| 21  | 13.7, | 328.4, | 248.8, | -150.9, | -84.1, | 22  | 13.7, | 306.8, | 285.7, | -154.1, | -87.5, |
| 23  | 13.7, | 275.8, | 314.0, | -152.7, | -88.2, | 24  | 13.7, | 236.4, | 332.7, | -146.6, | -86.3, |
| 25  | 13.7, | 189.9, | 341.3, | -136.0, | -81.7, | 26  | 13.7, | 138.4, | 339.6, | -121.4, | -75.0, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -100.8, | -54.5, |
| 29  | 13.7, | 204.2, | 340.1, | -91.9,  | -41.0, | 30  | 13.7, | 248.8, | 328.4, | -80.1,  | -26.5, |
| 31  | 13.7, | 285.7, | 306.8, | -65.9,  | -11.3, | 32  | 13.7, | 314.0, | 275.8, | -49.6,  | 4.3,   |
| 33  | 13.7, | 332.7, | 236.4, | -31.9,  | 19.8,  | 34  | 13.7, | 341.3, | 189.9, | -13.2,  | 34.6,  |
| 35  | 13.7, | 339.6, | 138.4, | 5.9,    | 48.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.6,   | 60.0,  |

SOURCE ID: TTP60

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -23.0,  | 72.8,  | 2   | 13.7, | 340.1, | 204.2, | -62.0,  | 81.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -99.2,  | 86.7,  | 4   | 13.7, | 306.8, | 285.7, | -133.4, | 89.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -163.5, | 90.2,  | 6   | 13.7, | 236.4, | 332.7, | -188.6, | 87.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -208.0, | 82.8,  | 8   | 13.7, | 138.4, | 339.6, | -221.1, | 75.7,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -243.5, | 54.1,  |
| 11  | 13.7, | 204.2, | 340.1, | -251.0, | 40.1,  | 12  | 13.7, | 248.8, | 328.4, | -250.9, | 25.2,  |
| 13  | 13.7, | 285.7, | 306.8, | -243.2, | 9.5,   | 14  | 13.7, | 314.0, | 275.8, | -228.1, | -6.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -206.1, | -22.2, | 16  | 13.7, | 341.3, | 189.9, | -177.8, | -37.3, |
| 17  | 13.7, | 339.6, | 138.4, | -144.9, | -51.3, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -62.9, |
| 19  | 13.7, | 341.4, | 154.2, | -131.2, | -72.8, | 20  | 13.7, | 340.1, | 204.2, | -142.2, | -81.0, |
| 21  | 13.7, | 328.4, | 248.8, | -149.6, | -86.7, | 22  | 13.7, | 306.8, | 285.7, | -152.4, | -89.8, |
| 23  | 13.7, | 275.8, | 314.0, | -150.5, | -90.2, | 24  | 13.7, | 236.4, | 332.7, | -144.1, | -87.9, |
| 25  | 13.7, | 189.9, | 341.3, | -133.3, | -82.8, | 26  | 13.7, | 138.4, | 339.6, | -118.5, | -75.7, |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -98.0,  | -54.1, |
| 29  | 13.7, | 204.2, | 340.1, | -89.1,  | -40.1, | 30  | 13.7, | 248.8, | 328.4, | -77.5,  | -25.2, |
| 31  | 13.7, | 285.7, | 306.8, | -63.5,  | -9.5,  | 32  | 13.7, | 314.0, | 275.8, | -47.7,  | 6.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -30.4,  | 22.2,  | 34  | 13.7, | 341.3, | 189.9, | -12.1,  | 37.3,  |
| 35  | 13.7, | 339.6, | 138.4, | 6.5,    | 51.3,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 62.9,  |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***      11:04:36

```

PAGE 80

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP61

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -23.4,  | 76.0, | 2   | 13.7, | 340.1, | 204.2, | -63.0,  | 84.1, |
| 3   | 13.7, | 328.4, | 248.8, | -100.8, | 89.6, | 4   | 13.7, | 306.8, | 285.7, | -135.4, | 92.4, |
| 5   | 13.7, | 275.8, | 314.0, | -165.9, | 92.4, | 6   | 13.7, | 236.4, | 332.7, | -191.4, | 89.6, |
| 7   | 13.7, | 189.9, | 341.3, | -211.0, | 84.1, | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -246.7, | 53.6, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -254.1, | 39.1,  | 12 | 13.7, | 248.8, | 328.4, | -253.8, | 23.6,  |
| 13 | 13.7, | 285.7, | 306.8, | -245.8, | 7.5,   | 14 | 13.7, | 314.0, | 275.8, | -230.3, | -8.9,  |
| 15 | 13.7, | 332.7, | 236.4, | -207.8, | -25.0, | 16 | 13.7, | 341.3, | 189.9, | -179.0, | -40.4, |
| 17 | 13.7, | 339.6, | 138.4, | -145.5, | -54.5, | 18 | 13.7, | 333.6, | 101.5, | -118.3, | -66.2, |
| 19 | 13.7, | 341.4, | 154.2, | -130.7, | -76.0, | 20 | 13.7, | 340.1, | 204.2, | -141.2, | -84.1, |
| 21 | 13.7, | 328.4, | 248.8, | -148.0, | -89.6, | 22 | 13.7, | 306.8, | 285.7, | -150.3, | -92.4, |
| 23 | 13.7, | 275.8, | 314.0, | -148.1, | -92.4, | 24 | 13.7, | 236.4, | 332.7, | -141.3, | -89.6, |
| 25 | 13.7, | 189.9, | 341.3, | -130.3, | -84.1, | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -94.7,  | -53.6, |
| 29 | 13.7, | 204.2, | 340.1, | -85.9,  | -39.1, | 30 | 13.7, | 248.8, | 328.4, | -74.6,  | -23.6, |
| 31 | 13.7, | 285.7, | 306.8, | -60.9,  | -7.5,  | 32 | 13.7, | 314.0, | 275.8, | -45.5,  | 8.9,   |
| 33 | 13.7, | 332.7, | 236.4, | -28.6,  | 25.0,  | 34 | 13.7, | 341.3, | 189.9, | -10.9,  | 40.4,  |
| 35 | 13.7, | 339.6, | 138.4, | 7.2,    | 54.5,  | 36 | 13.7, | 333.6, | 101.5, | 16.9,   | 66.2,  |

SOURCE ID: TTP62

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.1,  | 78.9,  | 2   | 13.7, | 340.1, | 204.2, | -64.2,  | 86.8,  |
| 3   | 13.7, | 328.4, | 248.8, | -102.3, | 92.1,  | 4   | 13.7, | 306.8, | 285.7, | -137.4, | 94.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -168.2, | 94.2,  | 6   | 13.7, | 236.4, | 332.7, | -194.0, | 91.0,  |
| 7   | 13.7, | 189.9, | 341.3, | -213.8, | 85.0,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -249.6, | 53.0,  |
| 11  | 13.7, | 204.2, | 340.1, | -256.8, | 37.9,  | 12  | 13.7, | 248.8, | 328.4, | -256.3, | 22.1,  |
| 13  | 13.7, | 285.7, | 306.8, | -248.0, | 5.5,   | 14  | 13.7, | 314.0, | 275.8, | -232.1, | -11.2, |
| 15  | 13.7, | 332.7, | 236.4, | -209.2, | -27.6, | 16  | 13.7, | 341.3, | 189.9, | -179.9, | -43.2, |
| 17  | 13.7, | 339.6, | 138.4, | -145.9, | -57.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -69.2, |
| 19  | 13.7, | 341.4, | 154.2, | -130.1, | -78.9, | 20  | 13.7, | 340.1, | 204.2, | -140.1, | -86.8, |
| 21  | 13.7, | 328.4, | 248.8, | -146.4, | -92.1, | 22  | 13.7, | 306.8, | 285.7, | -148.4, | -94.6, |
| 23  | 13.7, | 275.8, | 314.0, | -145.8, | -94.2, | 24  | 13.7, | 236.4, | 332.7, | -138.7, | -91.0, |
| 25  | 13.7, | 189.9, | 341.3, | -127.5, | -85.0, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -91.8,  | -53.0, |
| 29  | 13.7, | 204.2, | 340.1, | -83.2,  | -37.9, | 30  | 13.7, | 248.8, | 328.4, | -72.1,  | -22.1, |
| 31  | 13.7, | 285.7, | 306.8, | -58.8,  | -5.5,  | 32  | 13.7, | 314.0, | 275.8, | -43.7,  | 11.2,  |
| 33  | 13.7, | 332.7, | 236.4, | -27.2,  | 27.6,  | 34  | 13.7, | 341.3, | 189.9, | -10.0,  | 43.2,  |
| 35  | 13.7, | 339.6, | 138.4, | 7.6,    | 57.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 69.2,  |

SOURCE ID: TTP63

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -24.6,  | 81.9,  | 2   | 13.7, | 340.1, | 204.2, | -65.2,  | 89.7,  |
| 3   | 13.7, | 328.4, | 248.8, | -103.8, | 94.7,  | 4   | 13.7, | 306.8, | 285.7, | -139.3, | 96.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -170.5, | 96.2,  | 6   | 13.7, | 236.4, | 332.7, | -196.6, | 92.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -216.7, | 86.0,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -252.6, | 52.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -259.7, | 36.9,  | 12  | 13.7, | 248.8, | 328.4, | -258.9, | 20.5,  |
| 13  | 13.7, | 285.7, | 306.8, | -250.3, | 3.5,   | 14  | 13.7, | 314.0, | 275.8, | -234.1, | -13.6, |
| 15  | 13.7, | 332.7, | 236.4, | -210.7, | -30.2, | 16  | 13.7, | 341.3, | 189.9, | -181.0, | -46.0, |
| 17  | 13.7, | 339.6, | 138.4, | -146.5, | -60.4, | 18  | 13.7, | 333.6, | 101.5, | -118.2, | -72.2, |
| 19  | 13.7, | 341.4, | 154.2, | -129.6, | -81.9, | 20  | 13.7, | 340.1, | 204.2, | -139.0, | -89.7, |
| 21  | 13.7, | 328.4, | 248.8, | -144.9, | -94.7, | 22  | 13.7, | 306.8, | 285.7, | -146.4, | -96.9, |
| 23  | 13.7, | 275.8, | 314.0, | -143.4, | -96.2, | 24  | 13.7, | 236.4, | 332.7, | -136.1, | -92.5, |
| 25  | 13.7, | 189.9, | 341.3, | -124.6, | -86.0, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -88.8,  | -52.5, |
| 29  | 13.7, | 204.2, | 340.1, | -80.4,  | -36.9, | 30  | 13.7, | 248.8, | 328.4, | -69.5,  | -20.5, |
| 31  | 13.7, | 285.7, | 306.8, | -56.4,  | -3.5,  | 32  | 13.7, | 314.0, | 275.8, | -41.7,  | 13.6,  |
| 33  | 13.7, | 332.7, | 236.4, | -25.7,  | 30.2,  | 34  | 13.7, | 341.3, | 189.9, | -8.9,   | 46.0,  |
| 35  | 13.7, | 339.6, | 138.4, | 8.1,    | 60.4,  | 36  | 13.7, | 333.6, | 101.5, | 16.8,   | 72.2,  |

SOURCE ID: TTP64

| IFV | BH    | BW     | BL     | XADJ    | YADJ  | IFV | BH    | BW     | BL     | XADJ    | YADJ  |
|-----|-------|--------|--------|---------|-------|-----|-------|--------|--------|---------|-------|
| 1   | 13.7, | 341.4, | 154.2, | -25.4,  | 85.0, | 2   | 13.7, | 340.1, | 204.2, | -66.5,  | 92.6, |
| 3   | 13.7, | 328.4, | 248.8, | -105.6, | 97.4, | 4   | 13.7, | 306.8, | 285.7, | -141.5, | 99.2, |
| 5   | 13.7, | 275.8, | 314.0, | -173.1, | 98.0, | 6   | 13.7, | 236.4, | 332.7, | -199.5, | 93.9, |
| 7   | 13.7, | 189.9, | 341.3, | -219.7, | 86.8, | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,  | 10  | 13.7, | 154.2, | 341.4, | -255.7, | 51.7, |

|    |       |        |        |         |        |    |       |        |        |         |        |
|----|-------|--------|--------|---------|--------|----|-------|--------|--------|---------|--------|
| 11 | 13.7, | 204.2, | 340.1, | -262.6, | 35.6,  | 12 | 13.7, | 248.8, | 328.4, | -261.6, | 18.7,  |
| 13 | 13.7, | 285.7, | 306.8, | -252.6, | 1.3,   | 14 | 13.7, | 314.0, | 275.8, | -235.9, | -16.2, |
| 15 | 13.7, | 332.7, | 236.4, | -212.1, | -33.1, | 16 | 13.7, | 341.3, | 189.9, | -181.8, | -49.1, |
| 17 | 13.7, | 339.6, | 138.4, | -146.8, | -63.6, | 18 | 13.7, | 333.6, | 101.5, | -118.0, | -75.4, |
| 19 | 13.7, | 341.4, | 154.2, | -128.8, | -85.0, | 20 | 13.7, | 340.1, | 204.2, | -137.7, | -92.6, |
| 21 | 13.7, | 328.4, | 248.8, | -143.1, | -97.4, | 22 | 13.7, | 306.8, | 285.7, | -144.2, | -99.2, |
| 23 | 13.7, | 275.8, | 314.0, | -140.8, | -98.0, | 24 | 13.7, | 236.4, | 332.7, | -133.2, | -93.9, |
| 25 | 13.7, | 189.9, | 341.3, | -121.6, | -86.8, | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28 | 13.7, | 154.2, | 341.4, | -85.8,  | -51.7, |
| 29 | 13.7, | 204.2, | 340.1, | -77.5,  | -35.6, | 30 | 13.7, | 248.8, | 328.4, | -66.8,  | -18.7, |
| 31 | 13.7, | 285.7, | 306.8, | -54.2,  | -1.3,  | 32 | 13.7, | 314.0, | 275.8, | -39.9,  | 16.2,  |
| 33 | 13.7, | 332.7, | 236.4, | -24.4,  | 33.1,  | 34 | 13.7, | 341.3, | 189.9, | -8.1,   | 49.1,  |
| 35 | 13.7, | 339.6, | 138.4, | 8.4,    | 63.6,  | 36 | 13.7, | 333.6, | 101.5, | 16.5,   | 75.4,  |


 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15639  
 Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24  
 \*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

11:04:36

PAGE 81

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP65

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -26.1,  | 87.9,  | 2   | 13.7, | 340.1, | 204.2, | -67.7,  | 95.4,   |
| 3   | 13.7, | 328.4, | 248.8, | -107.3, | 99.9,  | 4   | 13.7, | 306.8, | 285.7, | -143.6, | 101.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -175.5, | 99.9,  | 6   | 13.7, | 236.4, | 332.7, | -202.2, | 95.3,   |
| 7   | 13.7, | 189.9, | 341.3, | -222.6, | 87.8,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -258.6, | 51.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -265.4, | 34.4,  | 12  | 13.7, | 248.8, | 328.4, | -264.1, | 17.1,   |
| 13  | 13.7, | 285.7, | 306.8, | -254.8, | -0.7,  | 14  | 13.7, | 314.0, | 275.8, | -237.8, | -18.6,  |
| 15  | 13.7, | 332.7, | 236.4, | -213.5, | -35.8, | 16  | 13.7, | 341.3, | 189.9, | -182.7, | -52.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -147.2, | -66.6, | 18  | 13.7, | 333.6, | 101.5, | -117.8, | -78.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -128.1, | -87.9, | 20  | 13.7, | 340.1, | 204.2, | -136.6, | -95.4,  |
| 21  | 13.7, | 328.4, | 248.8, | -141.5, | -99.9, | 22  | 13.7, | 306.8, | 285.7, | -142.1, | -101.4, |
| 23  | 13.7, | 275.8, | 314.0, | -138.4, | -99.9, | 24  | 13.7, | 236.4, | 332.7, | -130.5, | -95.3,  |
| 25  | 13.7, | 189.9, | 341.3, | -118.7, | -87.8, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 28  | 13.7, | 154.2, | 341.4, | -82.8,  | -51.0,  |
| 29  | 13.7, | 204.2, | 340.1, | -74.7,  | -34.4, | 30  | 13.7, | 248.8, | 328.4, | -64.3,  | -17.1,  |
| 31  | 13.7, | 285.7, | 306.8, | -51.9,  | 0.7,   | 32  | 13.7, | 314.0, | 275.8, | -38.0,  | 18.6,   |
| 33  | 13.7, | 332.7, | 236.4, | -22.9,  | 35.8,  | 34  | 13.7, | 341.3, | 189.9, | -7.2,   | 52.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 8.8,    | 66.6,  | 36  | 13.7, | 333.6, | 101.5, | 16.4,   | 78.4,   |

SOURCE ID: TTP66

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -26.4,  | 90.8,   | 2   | 13.7, | 340.1, | 204.2, | -68.6,  | 98.2,   |
| 3   | 13.7, | 328.4, | 248.8, | -108.6, | 102.5,  | 4   | 13.7, | 306.8, | 285.7, | -145.4, | 103.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -177.7, | 101.8,  | 6   | 13.7, | 236.4, | 332.7, | -204.6, | 96.8,   |
| 7   | 13.7, | 189.9, | 341.3, | -225.3, | 88.9,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -261.5, | 50.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -268.2, | 33.6,   | 12  | 13.7, | 248.8, | 328.4, | -266.7, | 15.8,   |
| 13  | 13.7, | 285.7, | 306.8, | -257.1, | -2.5,   | 14  | 13.7, | 314.0, | 275.8, | -239.7, | -20.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -215.1, | -38.3,  | 16  | 13.7, | 341.3, | 189.9, | -183.8, | -54.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -147.8, | -69.4,  | 18  | 13.7, | 333.6, | 101.5, | -118.0, | -81.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.7, | -90.8,  | 20  | 13.7, | 340.1, | 204.2, | -135.7, | -98.2,  |
| 21  | 13.7, | 328.4, | 248.8, | -140.1, | -102.5, | 22  | 13.7, | 306.8, | 285.7, | -140.3, | -103.8, |
| 23  | 13.7, | 275.8, | 314.0, | -136.3, | -101.8, | 24  | 13.7, | 236.4, | 332.7, | -128.1, | -96.8,  |
| 25  | 13.7, | 189.9, | 341.3, | -116.0, | -88.9,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -79.9,  | -50.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -71.9,  | -33.6,  | 30  | 13.7, | 248.8, | 328.4, | -61.7,  | -15.8,  |
| 31  | 13.7, | 285.7, | 306.8, | -49.6,  | 2.5,    | 32  | 13.7, | 314.0, | 275.8, | -36.0,  | 20.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -21.4,  | 38.3,   | 34  | 13.7, | 341.3, | 189.9, | -6.1,   | 54.7,   |

35 13.7, 339.6, 138.4, 9.5, 69.4, 36 13.7, 333.6, 101.5, 16.5, 81.3,

SOURCE ID: TTP67

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -27.2,  | 93.8,   | 2   | 13.7, | 340.1, | 204.2, | -69.8,  | 101.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -110.3, | 105.0,  | 4   | 13.7, | 306.8, | 285.7, | -147.5, | 105.9,  |
| 5   | 13.7, | 275.8, | 314.0, | -180.2, | 103.6,  | 6   | 13.7, | 236.4, | 332.7, | -207.4, | 98.2,   |
| 7   | 13.7, | 189.9, | 341.3, | -228.3, | 89.7,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -264.5, | 49.9,   |
| 11  | 13.7, | 204.2, | 340.1, | -271.0, | 32.3,   | 12  | 13.7, | 248.8, | 328.4, | -269.2, | 14.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -259.3, | -4.7,   | 14  | 13.7, | 314.0, | 275.8, | -241.5, | -23.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -216.4, | -41.0,  | 16  | 13.7, | 341.3, | 189.9, | -184.7, | -57.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -148.1, | -72.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.7, | -84.4,  |
| 19  | 13.7, | 341.4, | 154.2, | -127.0, | -93.8,  | 20  | 13.7, | 340.1, | 204.2, | -134.4, | -101.0, |
| 21  | 13.7, | 328.4, | 248.8, | -138.4, | -105.0, | 22  | 13.7, | 306.8, | 285.7, | -138.2, | -105.9, |
| 23  | 13.7, | 275.8, | 314.0, | -133.8, | -103.6, | 24  | 13.7, | 236.4, | 332.7, | -125.3, | -98.2,  |
| 25  | 13.7, | 189.9, | 341.3, | -113.0, | -89.7,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -76.9,  | -49.9,  |
| 29  | 13.7, | 204.2, | 340.1, | -69.1,  | -32.3,  | 30  | 13.7, | 248.8, | 328.4, | -59.2,  | -14.0,  |
| 31  | 13.7, | 285.7, | 306.8, | -47.4,  | 4.7,    | 32  | 13.7, | 314.0, | 275.8, | -34.3,  | 23.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -20.1,  | 41.0,   | 34  | 13.7, | 341.3, | 189.9, | -5.2,   | 57.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 9.7,    | 72.5,   | 36  | 13.7, | 333.6, | 101.5, | 16.3,   | 84.4,   |

SOURCE ID: TTP68

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -27.8,  | 96.6,   | 2   | 13.7, | 340.1, | 204.2, | -71.0,  | 103.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -111.9, | 107.5,  | 4   | 13.7, | 306.8, | 285.7, | -149.5, | 108.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -182.5, | 105.4,  | 6   | 13.7, | 236.4, | 332.7, | -210.0, | 99.5,   |
| 7   | 13.7, | 189.9, | 341.3, | -231.1, | 90.6,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -267.3, | 49.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -273.7, | 31.2,   | 12  | 13.7, | 248.8, | 328.4, | -271.7, | 12.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -261.5, | -6.6,   | 14  | 13.7, | 314.0, | 275.8, | -243.3, | -25.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -217.7, | -43.6,  | 16  | 13.7, | 341.3, | 189.9, | -185.5, | -60.4,  |
| 17  | 13.7, | 339.6, | 138.4, | -148.5, | -75.4,  | 18  | 13.7, | 333.6, | 101.5, | -117.6, | -87.3,  |
| 19  | 13.7, | 341.4, | 154.2, | -126.3, | -96.6,  | 20  | 13.7, | 340.1, | 204.2, | -133.3, | -103.6, |
| 21  | 13.7, | 328.4, | 248.8, | -136.8, | -107.5, | 22  | 13.7, | 306.8, | 285.7, | -136.2, | -108.1, |
| 23  | 13.7, | 275.8, | 314.0, | -131.5, | -105.4, | 24  | 13.7, | 236.4, | 332.7, | -122.7, | -99.5,  |
| 25  | 13.7, | 189.9, | 341.3, | -110.2, | -90.6,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -74.1,  | -49.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -66.4,  | -31.2,  | 30  | 13.7, | 248.8, | 328.4, | -56.7,  | -12.5,  |
| 31  | 13.7, | 285.7, | 306.8, | -45.3,  | 6.6,    | 32  | 13.7, | 314.0, | 275.8, | -32.5,  | 25.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -18.7,  | 43.6,   | 34  | 13.7, | 341.3, | 189.9, | -4.3,   | 60.4,   |
| 35  | 13.7, | 339.6, | 138.4, | 10.1,   | 75.4,   | 36  | 13.7, | 333.6, | 101.5, | 16.1,   | 87.3,   |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\* 11:04:36

PAGE 82

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP69

| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| 1   | 13.7, | 341.4, | 154.2, | -28.4,  | 99.6,  | 2   | 13.7, | 340.1, | 204.2, | -72.0,  | 106.5, |
| 3   | 13.7, | 328.4, | 248.8, | -113.4, | 110.1, | 4   | 13.7, | 306.8, | 285.7, | -151.4, | 110.4, |
| 5   | 13.7, | 275.8, | 314.0, | -184.8, | 107.4, | 6   | 13.7, | 236.4, | 332.7, | -212.6, | 101.0, |
| 7   | 13.7, | 189.9, | 341.3, | -233.9, | 91.6,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -270.3, | 48.7,  |
| 11  | 13.7, | 204.2, | 340.1, | -276.5, | 30.1,  | 12  | 13.7, | 248.8, | 328.4, | -274.3, | 10.9,  |
| 13  | 13.7, | 285.7, | 306.8, | -263.8, | -8.6,  | 14  | 13.7, | 314.0, | 275.8, | -245.2, | -27.8, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 15 | 13.7, | 332.7, | 236.4, | -219.2, | -46.3,  | 16 | 13.7, | 341.3, | 189.9, | -186.6, | -63.3,  |
| 17 | 13.7, | 339.6, | 138.4, | -149.0, | -78.4,  | 18 | 13.7, | 333.6, | 101.5, | -117.6, | -90.3,  |
| 19 | 13.7, | 341.4, | 154.2, | -125.8, | -99.6,  | 20 | 13.7, | 340.1, | 204.2, | -132.3, | -106.5, |
| 21 | 13.7, | 328.4, | 248.8, | -135.3, | -110.1, | 22 | 13.7, | 306.8, | 285.7, | -134.3, | -110.4, |
| 23 | 13.7, | 275.8, | 314.0, | -129.1, | -107.4, | 24 | 13.7, | 236.4, | 332.7, | -120.1, | -101.0, |
| 25 | 13.7, | 189.9, | 341.3, | -107.4, | -91.6,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -71.1,  | -48.7,  |
| 29 | 13.7, | 204.2, | 340.1, | -63.5,  | -30.1,  | 30 | 13.7, | 248.8, | 328.4, | -54.1,  | -10.9,  |
| 31 | 13.7, | 285.7, | 306.8, | -42.9,  | 8.6,    | 32 | 13.7, | 314.0, | 275.8, | -30.5,  | 27.8,   |
| 33 | 13.7, | 332.7, | 236.4, | -17.2,  | 46.3,   | 34 | 13.7, | 341.3, | 189.9, | -3.3,   | 63.3,   |
| 35 | 13.7, | 339.6, | 138.4, | 10.7,   | 78.4,   | 36 | 13.7, | 333.6, | 101.5, | 16.1,   | 90.3,   |

SOURCE ID: TTP70

|     |       |        |        |         |         |     |       |        |        |         |         |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
| 1   | 13.7, | 341.4, | 154.2, | -29.2,  | 102.7,  | 2   | 13.7, | 340.1, | 204.2, | -73.3,  | 109.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -115.2, | 112.8,  | 4   | 13.7, | 306.8, | 285.7, | -153.7, | 112.7,  |
| 5   | 13.7, | 275.8, | 314.0, | -187.4, | 109.2,  | 6   | 13.7, | 236.4, | 332.7, | -215.5, | 102.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -237.0, | 92.5,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -273.4, | 47.9,   |
| 11  | 13.7, | 204.2, | 340.1, | -279.4, | 28.8,   | 12  | 13.7, | 248.8, | 328.4, | -277.0, | 9.1,    |
| 13  | 13.7, | 285.7, | 306.8, | -266.1, | -10.8,  | 14  | 13.7, | 314.0, | 275.8, | -247.1, | -30.4,  |
| 15  | 13.7, | 332.7, | 236.4, | -220.6, | -49.1,  | 16  | 13.7, | 341.3, | 189.9, | -187.4, | -66.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -149.3, | -81.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.3, | -93.5,  |
| 19  | 13.7, | 341.4, | 154.2, | -125.0, | -102.7, | 20  | 13.7, | 340.1, | 204.2, | -130.9, | -109.4, |
| 21  | 13.7, | 328.4, | 248.8, | -133.5, | -112.8, | 22  | 13.7, | 306.8, | 285.7, | -132.0, | -112.7, |
| 23  | 13.7, | 275.8, | 314.0, | -126.5, | -109.2, | 24  | 13.7, | 236.4, | 332.7, | -117.2, | -102.4, |
| 25  | 13.7, | 189.9, | 341.3, | -104.3, | -92.5,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -68.0,  | -47.9,  |
| 29  | 13.7, | 204.2, | 340.1, | -60.6,  | -28.8,  | 30  | 13.7, | 248.8, | 328.4, | -51.4,  | -9.1,   |
| 31  | 13.7, | 285.7, | 306.8, | -40.7,  | 10.8,   | 32  | 13.7, | 314.0, | 275.8, | -28.7,  | 30.4,   |
| 33  | 13.7, | 332.7, | 236.4, | -15.8,  | 49.1,   | 34  | 13.7, | 341.3, | 189.9, | -2.5,   | 66.3,   |
| 35  | 13.7, | 339.6, | 138.4, | 11.0,   | 81.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.9,   | 93.5,   |

SOURCE ID: TTP71

|     |       |        |        |         |         |     |       |        |        |         |         |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
| 1   | 13.7, | 341.4, | 154.2, | -29.8,  | 105.7,  | 2   | 13.7, | 340.1, | 204.2, | -74.5,  | 112.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -116.9, | 115.3,  | 4   | 13.7, | 306.8, | 285.7, | -155.7, | 115.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -189.8, | 111.1,  | 6   | 13.7, | 236.4, | 332.7, | -218.2, | 103.8,  |
| 7   | 13.7, | 189.9, | 341.3, | -239.9, | 93.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -276.4, | 47.3,   |
| 11  | 13.7, | 204.2, | 340.1, | -282.2, | 27.7,   | 12  | 13.7, | 248.8, | 328.4, | -279.5, | 7.5,    |
| 13  | 13.7, | 285.7, | 306.8, | -268.3, | -12.9,  | 14  | 13.7, | 314.0, | 275.8, | -249.0, | -32.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -222.0, | -51.8,  | 16  | 13.7, | 341.3, | 189.9, | -188.4, | -69.2,  |
| 17  | 13.7, | 339.6, | 138.4, | -149.7, | -84.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.2, | -96.6,  |
| 19  | 13.7, | 341.4, | 154.2, | -124.4, | -105.7, | 20  | 13.7, | 340.1, | 204.2, | -129.8, | -112.2, |
| 21  | 13.7, | 328.4, | 248.8, | -131.9, | -115.3, | 22  | 13.7, | 306.8, | 285.7, | -130.0, | -115.0, |
| 23  | 13.7, | 275.8, | 314.0, | -124.1, | -111.1, | 24  | 13.7, | 236.4, | 332.7, | -114.5, | -103.8, |
| 25  | 13.7, | 189.9, | 341.3, | -101.4, | -93.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -65.0,  | -47.3,  |
| 29  | 13.7, | 204.2, | 340.1, | -57.8,  | -27.7,  | 30  | 13.7, | 248.8, | 328.4, | -48.9,  | -7.5,   |
| 31  | 13.7, | 285.7, | 306.8, | -38.4,  | 12.9,   | 32  | 13.7, | 314.0, | 275.8, | -26.8,  | 32.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -14.4,  | 51.8,   | 34  | 13.7, | 341.3, | 189.9, | -1.5,   | 69.2,   |
| 35  | 13.7, | 339.6, | 138.4, | 11.4,   | 84.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.8,   | 96.6,   |

SOURCE ID: TTP72

|     |       |        |        |         |        |     |       |        |        |         |        |
|-----|-------|--------|--------|---------|--------|-----|-------|--------|--------|---------|--------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ   | IFV | BH    | BW     | BL     | XADJ    | YADJ   |
| 1   | 13.7, | 341.4, | 154.2, | -30.2,  | 108.6, | 2   | 13.7, | 340.1, | 204.2, | -75.3,  | 115.0, |
| 3   | 13.7, | 328.4, | 248.8, | -118.2, | 117.9, | 4   | 13.7, | 306.8, | 285.7, | -157.5, | 117.3, |
| 5   | 13.7, | 275.8, | 314.0, | -192.0, | 113.0, | 6   | 13.7, | 236.4, | 332.7, | -220.7, | 105.4, |
| 7   | 13.7, | 189.9, | 341.3, | -242.6, | 94.5,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,   | 10  | 13.7, | 154.2, | 341.4, | -279.3, | 46.9,  |
| 11  | 13.7, | 204.2, | 340.1, | -285.0, | 26.8,  | 12  | 13.7, | 248.8, | 328.4, | -282.1, | 6.2,   |
| 13  | 13.7, | 285.7, | 306.8, | -270.6, | -14.7, | 14  | 13.7, | 314.0, | 275.8, | -250.9, | -35.0, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 15 | 13.7, | 332.7, | 236.4, | -223.6, | -54.3,  | 16 | 13.7, | 341.3, | 189.9, | -189.5, | -72.0,  |
| 17 | 13.7, | 339.6, | 138.4, | -150.4, | -87.4,  | 18 | 13.7, | 333.6, | 101.5, | -117.3, | -99.5,  |
| 19 | 13.7, | 341.4, | 154.2, | -124.0, | -108.6, | 20 | 13.7, | 340.1, | 204.2, | -128.9, | -115.0, |
| 21 | 13.7, | 328.4, | 248.8, | -130.5, | -117.9, | 22 | 13.7, | 306.8, | 285.7, | -128.2, | -117.3, |
| 23 | 13.7, | 275.8, | 314.0, | -122.0, | -113.0, | 24 | 13.7, | 236.4, | 332.7, | -112.0, | -105.4, |
| 25 | 13.7, | 189.9, | 341.3, | -98.7,  | -94.5,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -62.1,  | -46.9,  |
| 29 | 13.7, | 204.2, | 340.1, | -55.0,  | -26.8,  | 30 | 13.7, | 248.8, | 328.4, | -46.3,  | -6.2,   |
| 31 | 13.7, | 285.7, | 306.8, | -36.1,  | 14.7,   | 32 | 13.7, | 314.0, | 275.8, | -24.8,  | 35.0,   |
| 33 | 13.7, | 332.7, | 236.4, | -12.8,  | 54.3,   | 34 | 13.7, | 341.3, | 189.9, | -0.4,   | 72.0,   |
| 35 | 13.7, | 339.6, | 138.4, | 12.0,   | 87.4,   | 36 | 13.7, | 333.6, | 101.5, | 15.9,   | 99.5,   |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***

```

11:04:36

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP73

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -30.9,  | 111.7,  | 2   | 13.7, | 340.1, | 204.2, | -76.5,  | 117.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -119.9, | 120.6,  | 4   | 13.7, | 306.8, | 285.7, | -159.6, | 119.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -194.5, | 115.0,  | 6   | 13.7, | 236.4, | 332.7, | -223.5, | 106.9,  |
| 7   | 13.7, | 189.9, | 341.3, | -245.6, | 95.5,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -282.4, | 46.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -288.0, | 25.6,   | 12  | 13.7, | 248.8, | 328.4, | -284.8, | 4.5,    |
| 13  | 13.7, | 285.7, | 306.8, | -273.0, | -16.8,  | 14  | 13.7, | 314.0, | 275.8, | -252.9, | -37.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -225.1, | -57.1,  | 16  | 13.7, | 341.3, | 189.9, | -190.4, | -75.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -150.8, | -90.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.2, | -102.6, |
| 19  | 13.7, | 341.4, | 154.2, | -123.3, | -111.7, | 20  | 13.7, | 340.1, | 204.2, | -127.7, | -117.9, |
| 21  | 13.7, | 328.4, | 248.8, | -128.9, | -120.6, | 22  | 13.7, | 306.8, | 285.7, | -126.1, | -119.6, |
| 23  | 13.7, | 275.8, | 314.0, | -119.5, | -115.0, | 24  | 13.7, | 236.4, | 332.7, | -109.2, | -106.9, |
| 25  | 13.7, | 189.9, | 341.3, | -95.7,  | -95.5,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -59.0,  | -46.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -52.1,  | -25.6,  | 30  | 13.7, | 248.8, | 328.4, | -43.6,  | -4.5,   |
| 31  | 13.7, | 285.7, | 306.8, | -33.8,  | 16.8,   | 32  | 13.7, | 314.0, | 275.8, | -22.9,  | 37.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -11.4,  | 57.1,   | 34  | 13.7, | 341.3, | 189.9, | 0.6,    | 75.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 12.4,   | 90.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.8,   | 102.6,  |

SOURCE ID: TTP74

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -31.5,  | 114.5,  | 2   | 13.7, | 340.1, | 204.2, | -77.7,  | 120.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -121.5, | 123.1,  | 4   | 13.7, | 306.8, | 285.7, | -161.6, | 121.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -196.8, | 116.8,  | 6   | 13.7, | 236.4, | 332.7, | -226.1, | 108.2,  |
| 7   | 13.7, | 189.9, | 341.3, | -248.4, | 96.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -285.2, | 45.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -290.7, | 24.5,   | 12  | 13.7, | 248.8, | 328.4, | -287.3, | 2.9,    |
| 13  | 13.7, | 285.7, | 306.8, | -275.2, | -18.8,  | 14  | 13.7, | 314.0, | 275.8, | -254.7, | -39.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -226.4, | -59.7,  | 16  | 13.7, | 341.3, | 189.9, | -191.3, | -77.8,  |
| 17  | 13.7, | 339.6, | 138.4, | -151.2, | -93.5,  | 18  | 13.7, | 333.6, | 101.5, | -117.1, | -105.6, |
| 19  | 13.7, | 341.4, | 154.2, | -122.7, | -114.5, | 20  | 13.7, | 340.1, | 204.2, | -126.6, | -120.6, |
| 21  | 13.7, | 328.4, | 248.8, | -127.3, | -123.1, | 22  | 13.7, | 306.8, | 285.7, | -124.1, | -121.8, |
| 23  | 13.7, | 275.8, | 314.0, | -117.2, | -116.8, | 24  | 13.7, | 236.4, | 332.7, | -106.6, | -108.2, |
| 25  | 13.7, | 189.9, | 341.3, | -92.9,  | -96.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -56.2,  | -45.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -49.4,  | -24.5,  | 30  | 13.7, | 248.8, | 328.4, | -41.1,  | -2.9,   |
| 31  | 13.7, | 285.7, | 306.8, | -31.6,  | 18.8,   | 32  | 13.7, | 314.0, | 275.8, | -21.1,  | 39.8,   |
| 33  | 13.7, | 332.7, | 236.4, | -10.0,  | 59.7,   | 34  | 13.7, | 341.3, | 189.9, | 1.4,    | 77.8,   |
| 35  | 13.7, | 339.6, | 138.4, | 12.8,   | 93.5,   | 36  | 13.7, | 333.6, | 101.5, | 15.7,   | 105.6,  |

SOURCE ID: TTP75

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -32.0,  | 117.5,  | 2   | 13.7, | 340.1, | 204.2, | -78.7,  | 123.5,  |
| 3   | 13.7, | 328.4, | 248.8, | -123.0, | 125.7,  | 4   | 13.7, | 306.8, | 285.7, | -163.6, | 124.1,  |
| 5   | 13.7, | 275.8, | 314.0, | -199.1, | 118.7,  | 6   | 13.7, | 236.4, | 332.7, | -228.7, | 109.7,  |
| 7   | 13.7, | 189.9, | 341.3, | -251.3, | 97.4,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -288.2, | 45.1,   |
| 11  | 13.7, | 204.2, | 340.1, | -293.5, | 23.4,   | 12  | 13.7, | 248.8, | 328.4, | -289.9, | 1.4,    |
| 13  | 13.7, | 285.7, | 306.8, | -277.5, | -20.7,  | 14  | 13.7, | 314.0, | 275.8, | -256.6, | -42.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -228.0, | -62.3,  | 16  | 13.7, | 341.3, | 189.9, | -192.4, | -80.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -151.7, | -96.4,  | 18  | 13.7, | 333.6, | 101.5, | -117.1, | -108.6, |
| 19  | 13.7, | 341.4, | 154.2, | -122.1, | -117.5, | 20  | 13.7, | 340.1, | 204.2, | -125.5, | -123.5, |
| 21  | 13.7, | 328.4, | 248.8, | -125.8, | -125.7, | 22  | 13.7, | 306.8, | 285.7, | -122.1, | -124.1, |
| 23  | 13.7, | 275.8, | 314.0, | -114.8, | -118.7, | 24  | 13.7, | 236.4, | 332.7, | -104.0, | -109.7, |
| 25  | 13.7, | 189.9, | 341.3, | -90.0,  | -97.4,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -53.2,  | -45.1,  |
| 29  | 13.7, | 204.2, | 340.1, | -46.5,  | -23.4,  | 30  | 13.7, | 248.8, | 328.4, | -38.5,  | -1.4,   |
| 31  | 13.7, | 285.7, | 306.8, | -29.3,  | 20.7,   | 32  | 13.7, | 314.0, | 275.8, | -19.2,  | 42.2,   |
| 33  | 13.7, | 332.7, | 236.4, | -8.5,   | 62.3,   | 34  | 13.7, | 341.3, | 189.9, | 2.5,    | 80.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 13.4,   | 96.4,   | 36  | 13.7, | 333.6, | 101.5, | 15.7,   | 108.6,  |

SOURCE ID: TTP76

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -32.8,  | 120.6,  | 2   | 13.7, | 340.1, | 204.2, | -80.0,  | 126.4,  |
| 3   | 13.7, | 328.4, | 248.8, | -124.8, | 128.3,  | 4   | 13.7, | 306.8, | 285.7, | -165.8, | 126.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -201.7, | 120.6,  | 6   | 13.7, | 236.4, | 332.7, | -231.5, | 111.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -254.3, | 98.3,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -291.3, | 44.3,   |
| 11  | 13.7, | 204.2, | 340.1, | -296.4, | 22.1,   | 12  | 13.7, | 248.8, | 328.4, | -292.5, | -0.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -279.8, | -22.9,  | 14  | 13.7, | 314.0, | 275.8, | -258.5, | -44.7,  |
| 15  | 13.7, | 332.7, | 236.4, | -229.3, | -65.2,  | 16  | 13.7, | 341.3, | 189.9, | -193.2, | -83.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -152.0, | -99.6,  | 18  | 13.7, | 333.6, | 101.5, | -116.9, | -111.8, |
| 19  | 13.7, | 341.4, | 154.2, | -121.4, | -120.6, | 20  | 13.7, | 340.1, | 204.2, | -124.2, | -126.4, |
| 21  | 13.7, | 328.4, | 248.8, | -124.0, | -128.3, | 22  | 13.7, | 306.8, | 285.7, | -119.9, | -126.4, |
| 23  | 13.7, | 275.8, | 314.0, | -112.2, | -120.6, | 24  | 13.7, | 236.4, | 332.7, | -101.1, | -111.1, |
| 25  | 13.7, | 189.9, | 341.3, | -87.0,  | -98.3,  | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -50.1,  | -44.3,  |
| 29  | 13.7, | 204.2, | 340.1, | -43.6,  | -22.1,  | 30  | 13.7, | 248.8, | 328.4, | -35.9,  | 0.4,    |
| 31  | 13.7, | 285.7, | 306.8, | -27.0,  | 22.9,   | 32  | 13.7, | 314.0, | 275.8, | -17.3,  | 44.7,   |
| 33  | 13.7, | 332.7, | 236.4, | -7.1,   | 65.2,   | 34  | 13.7, | 341.3, | 189.9, | 3.3,    | 83.7,   |
| 35  | 13.7, | 339.6, | 138.4, | 13.7,   | 99.6,   | 36  | 13.7, | 333.6, | 101.5, | 15.4,   | 111.8,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 84

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP77

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -33.4,  | 123.6,  | 2   | 13.7, | 340.1, | 204.2, | -81.2,  | 129.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -126.4, | 130.9,  | 4   | 13.7, | 306.8, | 285.7, | -167.8, | 128.6,  |
| 5   | 13.7, | 275.8, | 314.0, | -204.1, | 122.4,  | 6   | 13.7, | 236.4, | 332.7, | -234.2, | 112.5,  |
| 7   | 13.7, | 189.9, | 341.3, | -257.2, | 99.2,   | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -294.3, | 43.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -299.2, | 21.0,   | 12  | 13.7, | 248.8, | 328.4, | -295.1, | -2.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -282.0, | -25.0,  | 14  | 13.7, | 314.0, | 275.8, | -260.3, | -47.1,  |
| 15  | 13.7, | 332.7, | 236.4, | -230.7, | -67.9,  | 16  | 13.7, | 341.3, | 189.9, | -194.2, | -86.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -152.4, | -102.6, | 18  | 13.7, | 333.6, | 101.5, | -116.7, | -114.8, |

|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 19 | 13.7, | 341.4, | 154.2, | -120.7, | -123.6, | 20 | 13.7, | 340.1, | 204.2, | -123.1, | -129.2, |
| 21 | 13.7, | 328.4, | 248.8, | -122.3, | -130.9, | 22 | 13.7, | 306.8, | 285.7, | -117.9, | -128.6, |
| 23 | 13.7, | 275.8, | 314.0, | -109.8, | -122.4, | 24 | 13.7, | 236.4, | 332.7, | -98.5,  | -112.5, |
| 25 | 13.7, | 189.9, | 341.3, | -84.1,  | -99.2,  | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -47.1,  | -43.6,  |
| 29 | 13.7, | 204.2, | 340.1, | -40.8,  | -21.0,  | 30 | 13.7, | 248.8, | 328.4, | -33.3,  | 2.0,    |
| 31 | 13.7, | 285.7, | 306.8, | -24.7,  | 25.0,   | 32 | 13.7, | 314.0, | 275.8, | -15.5,  | 47.1,   |
| 33 | 13.7, | 332.7, | 236.4, | -5.7,   | 67.9,   | 34 | 13.7, | 341.3, | 189.9, | 4.2,    | 86.6,   |
| 35 | 13.7, | 339.6, | 138.4, | 14.1,   | 102.6,  | 36 | 13.7, | 333.6, | 101.5, | 15.3,   | 114.8,  |

SOURCE ID: TTP78

|     |       |        |        |         |         |     |       |        |        |         |         |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
| 1   | 13.7, | 341.4, | 154.2, | -33.8,  | 126.5,  | 2   | 13.7, | 340.1, | 204.2, | -82.0,  | 132.0,  |
| 3   | 13.7, | 328.4, | 248.8, | -127.8, | 133.5,  | 4   | 13.7, | 306.8, | 285.7, | -169.6, | 131.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -206.3, | 124.4,  | 6   | 13.7, | 236.4, | 332.7, | -236.7, | 114.1,  |
| 7   | 13.7, | 189.9, | 341.3, | -259.9, | 100.3,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -297.2, | 43.2,   |
| 11  | 13.7, | 204.2, | 340.1, | -302.0, | 20.1,   | 12  | 13.7, | 248.8, | 328.4, | -297.7, | -3.4,   |
| 13  | 13.7, | 285.7, | 306.8, | -284.3, | -26.8,  | 14  | 13.7, | 314.0, | 275.8, | -262.3, | -49.3,  |
| 15  | 13.7, | 332.7, | 236.4, | -232.3, | -70.4,  | 16  | 13.7, | 341.3, | 189.9, | -195.3, | -89.3,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.1, | -105.5, | 18  | 13.7, | 333.6, | 101.5, | -116.9, | -117.8, |
| 19  | 13.7, | 341.4, | 154.2, | -120.3, | -126.5, | 20  | 13.7, | 340.1, | 204.2, | -122.2, | -132.0, |
| 21  | 13.7, | 328.4, | 248.8, | -121.0, | -133.5, | 22  | 13.7, | 306.8, | 285.7, | -116.1, | -131.0, |
| 23  | 13.7, | 275.8, | 314.0, | -107.7, | -124.4, | 24  | 13.7, | 236.4, | 332.7, | -96.0,  | -114.1, |
| 25  | 13.7, | 189.9, | 341.3, | -81.4,  | -100.3, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -44.2,  | -43.2,  |
| 29  | 13.7, | 204.2, | 340.1, | -38.0,  | -20.1,  | 30  | 13.7, | 248.8, | 328.4, | -30.7,  | 3.4,    |
| 31  | 13.7, | 285.7, | 306.8, | -22.4,  | 26.8,   | 32  | 13.7, | 314.0, | 275.8, | -13.5,  | 49.3,   |
| 33  | 13.7, | 332.7, | 236.4, | -4.1,   | 70.4,   | 34  | 13.7, | 341.3, | 189.9, | 5.4,    | 89.3,   |
| 35  | 13.7, | 339.6, | 138.4, | 14.7,   | 105.5,  | 36  | 13.7, | 333.6, | 101.5, | 15.4,   | 117.8,  |

SOURCE ID: TTP79

|     |       |        |        |         |         |     |       |        |        |         |         |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
| 1   | 13.7, | 341.4, | 154.2, | -34.4,  | 129.2,  | 2   | 13.7, | 340.1, | 204.2, | -83.1,  | 134.6,  |
| 3   | 13.7, | 328.4, | 248.8, | -129.3, | 135.9,  | 4   | 13.7, | 306.8, | 285.7, | -171.5, | 133.0,  |
| 5   | 13.7, | 275.8, | 314.0, | -208.5, | 126.1,  | 6   | 13.7, | 236.4, | 332.7, | -239.2, | 115.4,  |
| 7   | 13.7, | 189.9, | 341.3, | -262.6, | 101.2,  | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -299.9, | 42.6,   |
| 11  | 13.7, | 204.2, | 340.1, | -304.6, | 19.0,   | 12  | 13.7, | 248.8, | 328.4, | -300.1, | -4.9,   |
| 13  | 13.7, | 285.7, | 306.8, | -286.4, | -28.7,  | 14  | 13.7, | 314.0, | 275.8, | -264.0, | -51.5,  |
| 15  | 13.7, | 332.7, | 236.4, | -233.6, | -72.8,  | 16  | 13.7, | 341.3, | 189.9, | -196.1, | -92.0,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.4, | -108.3, | 18  | 13.7, | 333.6, | 101.5, | -116.7, | -120.5, |
| 19  | 13.7, | 341.4, | 154.2, | -119.7, | -129.2, | 20  | 13.7, | 340.1, | 204.2, | -121.1, | -134.6, |
| 21  | 13.7, | 328.4, | 248.8, | -119.5, | -135.9, | 22  | 13.7, | 306.8, | 285.7, | -114.2, | -133.0, |
| 23  | 13.7, | 275.8, | 314.0, | -105.5, | -126.1, | 24  | 13.7, | 236.4, | 332.7, | -93.5,  | -115.4, |
| 25  | 13.7, | 189.9, | 341.3, | -78.7,  | -101.2, | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -41.5,  | -42.6,  |
| 29  | 13.7, | 204.2, | 340.1, | -35.4,  | -19.0,  | 30  | 13.7, | 248.8, | 328.4, | -28.3,  | 4.9,    |
| 31  | 13.7, | 285.7, | 306.8, | -20.4,  | 28.7,   | 32  | 13.7, | 314.0, | 275.8, | -11.8,  | 51.5,   |
| 33  | 13.7, | 332.7, | 236.4, | -2.8,   | 72.8,   | 34  | 13.7, | 341.3, | 189.9, | 6.2,    | 92.0,   |
| 35  | 13.7, | 339.6, | 138.4, | 15.1,   | 108.3,  | 36  | 13.7, | 333.6, | 101.5, | 15.3,   | 120.5,  |

SOURCE ID: TTP80

|     |       |        |        |         |         |     |       |        |        |         |         |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
| 1   | 13.7, | 341.4, | 154.2, | -35.1,  | 132.1,  | 2   | 13.7, | 340.1, | 204.2, | -84.2,  | 137.3,  |
| 3   | 13.7, | 328.4, | 248.8, | -130.9, | 138.3,  | 4   | 13.7, | 306.8, | 285.7, | -173.5, | 135.2,  |
| 5   | 13.7, | 275.8, | 314.0, | -210.8, | 127.9,  | 6   | 13.7, | 236.4, | 332.7, | -241.8, | 116.8,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -302.8, | 42.0,   |
| 11  | 13.7, | 204.2, | 340.1, | -307.3, | 17.9,   | 12  | 13.7, | 248.8, | 328.4, | -302.5, | -6.5,   |
| 13  | 13.7, | 285.7, | 306.8, | -288.6, | -30.6,  | 14  | 13.7, | 314.0, | 275.8, | -265.8, | -53.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -235.0, | -75.4,  | 16  | 13.7, | 341.3, | 189.9, | -197.0, | -94.7,  |
| 17  | 13.7, | 339.6, | 138.4, | -153.8, | -111.2, | 18  | 13.7, | 333.6, | 101.5, | -116.6, | -123.5, |



|    |       |        |        |         |         |    |       |        |        |         |         |
|----|-------|--------|--------|---------|---------|----|-------|--------|--------|---------|---------|
| 19 | 13.7, | 341.4, | 154.2, | -119.1, | -132.1, | 20 | 13.7, | 340.1, | 204.2, | -120.0, | -137.3, |
| 21 | 13.7, | 328.4, | 248.8, | -117.9, | -138.3, | 22 | 13.7, | 306.8, | 285.7, | -112.2, | -135.2, |
| 23 | 13.7, | 275.8, | 314.0, | -103.1, | -127.9, | 24 | 13.7, | 236.4, | 332.7, | -90.9,  | -116.8, |
| 25 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27 | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28 | 13.7, | 154.2, | 341.4, | -38.6,  | -42.0,  |
| 29 | 13.7, | 204.2, | 340.1, | -32.7,  | -17.9,  | 30 | 13.7, | 248.8, | 328.4, | -25.9,  | 6.5,    |
| 31 | 13.7, | 285.7, | 306.8, | -18.2,  | 30.6,   | 32 | 13.7, | 314.0, | 275.8, | -10.0,  | 53.8,   |
| 33 | 13.7, | 332.7, | 236.4, | -1.5,   | 75.4,   | 34 | 13.7, | 341.3, | 189.9, | 7.1,    | 94.7,   |
| 35 | 13.7, | 339.6, | 138.4, | 15.4,   | 111.2,  | 36 | 13.7, | 333.6, | 101.5, | 15.2,   | 123.5,  |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\* 11:04:36

PAGE 85

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: TTP81

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -35.6,  | 135.1,  | 2   | 13.7, | 340.1, | 204.2, | -85.3,  | 140.2,  |
| 3   | 13.7, | 328.4, | 248.8, | -132.4, | 141.0,  | 4   | 13.7, | 306.8, | 285.7, | -175.4, | 137.5,  |
| 5   | 13.7, | 275.8, | 314.0, | -213.2, | 129.9,  | 6   | 13.7, | 236.4, | 332.7, | -244.4, | 118.3,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -305.8, | 41.5,   |
| 11  | 13.7, | 204.2, | 340.1, | -310.2, | 16.9,   | 12  | 13.7, | 248.8, | 328.4, | -305.2, | -8.0,   |
| 13  | 13.7, | 285.7, | 306.8, | -290.9, | -32.6,  | 14  | 13.7, | 314.0, | 275.8, | -267.8, | -56.2,  |
| 15  | 13.7, | 332.7, | 236.4, | -236.5, | -78.1,  | 16  | 13.7, | 341.3, | 189.9, | -198.0, | -97.6,  |
| 17  | 13.7, | 339.6, | 138.4, | -154.3, | -114.2, | 18  | 13.7, | 333.6, | 101.5, | -116.6, | -126.5, |
| 19  | 13.7, | 341.4, | 154.2, | -118.5, | -135.1, | 20  | 13.7, | 340.1, | 204.2, | -119.0, | -140.2, |
| 21  | 13.7, | 328.4, | 248.8, | -116.4, | -141.0, | 22  | 13.7, | 306.8, | 285.7, | -110.3, | -137.5, |
| 23  | 13.7, | 275.8, | 314.0, | -100.8, | -129.9, | 24  | 13.7, | 236.4, | 332.7, | -88.3,  | -118.3, |
| 25  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -35.6,  | -41.5,  |
| 29  | 13.7, | 204.2, | 340.1, | -29.9,  | -16.9,  | 30  | 13.7, | 248.8, | 328.4, | -23.2,  | 8.0,    |
| 31  | 13.7, | 285.7, | 306.8, | -15.9,  | 32.6,   | 32  | 13.7, | 314.0, | 275.8, | -8.0,   | 56.2,   |
| 33  | 13.7, | 332.7, | 236.4, | 0.1,    | 78.1,   | 34  | 13.7, | 341.3, | 189.9, | 8.1,    | 97.6,   |
| 35  | 13.7, | 339.6, | 138.4, | 16.0,   | 114.2,  | 36  | 13.7, | 333.6, | 101.5, | 15.2,   | 126.5,  |

SOURCE ID: TTP82

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -36.4,  | 138.2,  | 2   | 13.7, | 340.1, | 204.2, | -86.6,  | 143.1,  |
| 3   | 13.7, | 328.4, | 248.8, | -134.2, | 143.6,  | 4   | 13.7, | 306.8, | 285.7, | -177.7, | 139.8,  |
| 5   | 13.7, | 275.8, | 314.0, | -215.8, | 131.7,  | 6   | 13.7, | 236.4, | 332.7, | -247.3, | 119.6,  |
| 7   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 8   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 9   | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 10  | 13.7, | 154.2, | 341.4, | -308.9, | 40.7,   |
| 11  | 13.7, | 204.2, | 340.1, | -313.1, | 15.5,   | 12  | 13.7, | 248.8, | 328.4, | -307.8, | -9.8,   |
| 13  | 13.7, | 285.7, | 306.8, | -293.2, | -34.8,  | 14  | 13.7, | 314.0, | 275.8, | -269.6, | -58.8,  |
| 15  | 13.7, | 332.7, | 236.4, | -237.9, | -80.9,  | 16  | 13.7, | 341.3, | 189.9, | -198.9, | -100.7, |
| 17  | 13.7, | 339.6, | 138.4, | -154.6, | -117.3, | 18  | 13.7, | 333.6, | 101.5, | -116.4, | -129.7, |
| 19  | 13.7, | 341.4, | 154.2, | -117.8, | -138.2, | 20  | 13.7, | 340.1, | 204.2, | -117.7, | -143.1, |
| 21  | 13.7, | 328.4, | 248.8, | -114.6, | -143.6, | 22  | 13.7, | 306.8, | 285.7, | -108.0, | -139.8, |
| 23  | 13.7, | 275.8, | 314.0, | -98.2,  | -131.7, | 24  | 13.7, | 236.4, | 332.7, | -85.4,  | -119.6, |
| 25  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 26  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    |
| 27  | 0.0,  | 0.0,   | 0.0,   | 0.0,    | 0.0,    | 28  | 13.7, | 154.2, | 341.4, | -32.5,  | -40.7,  |
| 29  | 13.7, | 204.2, | 340.1, | -27.0,  | -15.5,  | 30  | 13.7, | 248.8, | 328.4, | -20.6,  | 9.8,    |
| 31  | 13.7, | 285.7, | 306.8, | -13.6,  | 34.8,   | 32  | 13.7, | 314.0, | 275.8, | -6.2,   | 58.8,   |
| 33  | 13.7, | 332.7, | 236.4, | 1.4,    | 80.9,   | 34  | 13.7, | 341.3, | 189.9, | 9.0,    | 100.7,  |
| 35  | 13.7, | 339.6, | 138.4, | 16.3,   | 117.3,  | 36  | 13.7, | 333.6, | 101.5, | 14.9,   | 129.7,  |

SOURCE ID: TTP83

SOURCE ID: STCK1

```

PF *** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***          09/20/24
*** AERMET - VERSION 21112 ***
***                                     *** 11:04:36

```

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

| IFV | BH    | BW     | BL     | XADJ    | YADJ    | IFV | BH    | BW     | BL     | XADJ    | YADJ    |
|-----|-------|--------|--------|---------|---------|-----|-------|--------|--------|---------|---------|
| 1   | 13.7, | 341.4, | 154.2, | -108.6, | 160.9,  | 2   | 13.7, | 340.1, | 204.2, | -161.6, | 152.9,  |
| 3   | 13.7, | 328.4, | 248.8, | -209.8, | 140.3,  | 4   | 13.7, | 306.8, | 285.7, | -251.6, | 123.4,  |
| 5   | 13.7, | 275.8, | 314.0, | -285.7, | 102.7,  | 6   | 13.7, | 236.4, | 332.7, | -311.1, | 79.0,   |
| 7   | 13.7, | 189.9, | 341.3, | -327.1, | 52.8,   | 8   | 13.7, | 138.4, | 339.6, | -333.2, | 25.4,   |
| 9   | 13.7, | 101.5, | 333.6, | -331.4, | -1.5,   | 10  | 13.7, | 154.2, | 341.4, | -331.6, | -31.5,  |
| 11  | 13.7, | 204.2, | 340.1, | -323.0, | -59.5,  | 12  | 13.7, | 248.8, | 328.4, | -304.5, | -85.4,  |
| 13  | 13.7, | 285.7, | 306.8, | -276.8, | -108.7, | 14  | 13.7, | 314.0, | 275.8, | -240.6, | -128.7, |
| 15  | 13.7, | 332.7, | 236.4, | -197.2, | -144.8, | 16  | 13.7, | 341.3, | 189.9, | -147.7, | -156.5, |
| 17  | 13.7, | 339.6, | 138.4, | -94.6,  | -163.4, | 18  | 13.7, | 333.6, | 101.5, | -49.2,  | -164.6, |
| 19  | 13.7, | 341.4, | 154.2, | -45.6,  | -160.9, | 20  | 13.7, | 340.1, | 204.2, | -42.6,  | -152.9, |
| 21  | 13.7, | 328.4, | 248.8, | -39.0,  | -140.3, | 22  | 13.7, | 306.8, | 285.7, | -34.1,  | -123.4, |

|    |       |        |        |        |         |    |       |        |        |        |        |
|----|-------|--------|--------|--------|---------|----|-------|--------|--------|--------|--------|
| 23 | 13.7, | 275.8, | 314.0, | -28.3, | -102.7, | 24 | 13.7, | 236.4, | 332.7, | -21.6, | -79.0, |
| 25 | 13.7, | 189.9, | 341.3, | -14.2, | -52.8,  | 26 | 13.7, | 138.4, | 339.6, | -6.4,  | -25.4, |
| 27 | 13.7, | 101.5, | 333.6, | -2.2,  | 1.5,    | 28 | 13.7, | 154.2, | 341.4, | -9.8,  | 31.5,  |
| 29 | 13.7, | 204.2, | 340.1, | -17.1, | 59.5,   | 30 | 13.7, | 248.8, | 328.4, | -23.9, | 85.4,  |
| 31 | 13.7, | 285.7, | 306.8, | -30.0, | 108.7,  | 32 | 13.7, | 314.0, | 275.8, | -35.1, | 128.7, |
| 33 | 13.7, | 332.7, | 236.4, | -39.2, | 144.8,  | 34 | 13.7, | 341.3, | 189.9, | -42.1, | 156.5, |
| 35 | 13.7, | 339.6, | 138.4, | -43.8, | 163.4,  | 36 | 13.7, | 333.6, | 101.5, | -52.2, | 164.6, |

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW7) \*

SOURCE ID = STCK1 ; SOURCE TYPE = POINT :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = MONDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = TUESDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .1000E+01 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = WEDNESDY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = THURSDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = FRIDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |    |  |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|--|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 | 6  |  |
|    | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |    |  |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 |  |
|    | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |    |  |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 | 22 |  |
|    | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\*      09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*      \*\*\*      11:04:36

PAGE 88

\*\*\* MODELOPTs:      RegDFAULT      CONC      ELEV      URBAN      ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW7) \*

SOURCE ID = STCK2      ; SOURCE TYPE = POINT      :

| HOURL                  | SCALAR    | HOURL  | SCALAR    | HOURL  | SCALAR    | HOURL  | SCALAR    | HOURL  | SCALAR    | HOURL  | SCALAR |
|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| SCALAR                 | HOURL     | SCALAR | HOURL     | SCALAR | HOURL     | SCALAR | HOURL     | SCALAR | HOURL     | SCALAR | HOURL  |
| DAY OF WEEK = MONDAY   |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = TUESDAY  |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .1000E+01 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = WEDNESDY |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = THURSDAY |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = FRIDAY   |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = SATURDAY |           |        |           |        |           |        |           |        |           |        |        |
| 1                      | .0000E+00 | 2      | .0000E+00 | 3      | .0000E+00 | 4      | .0000E+00 | 5      | .0000E+00 | 6      |        |
|                        | .0000E+00 | 7      | .0000E+00 | 8      | .0000E+00 |        |           |        |           |        |        |
| 9                      | .0000E+00 | 10     | .0000E+00 | 11     | .0000E+00 | 12     | .0000E+00 | 13     | .0000E+00 | 14     |        |
|                        | .0000E+00 | 15     | .0000E+00 | 16     | .0000E+00 |        |           |        |           |        |        |
| 17                     | .0000E+00 | 18     | .0000E+00 | 19     | .0000E+00 | 20     | .0000E+00 | 21     | .0000E+00 | 22     |        |
|                        | .0000E+00 | 23     | .0000E+00 | 24     | .0000E+00 |        |           |        |           |        |        |
| DAY OF WEEK = SUNDAY   |           |        |           |        |           |        |           |        |           |        |        |

```
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 *** 09/20/24
*** AERMET - VERSION 21112 ***
*** 11:04:36
```

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

```
( 658334.4, 4184219.3, 12.7, 12.7, 0.0); ( 658333.0,
4184239.1, 12.8, 12.8, 0.0);
( 658332.8, 4184256.8, 12.8, 12.8, 0.0); ( 658331.1,
4184275.4, 12.8, 12.8, 0.0);
( 658330.6, 4184293.6, 12.8, 12.8, 0.0); ( 658330.1,
4184311.5, 12.9, 12.9, 0.0);
( 658329.1, 4184328.9, 13.0, 13.0, 0.0); ( 658328.8,
4184346.9, 13.0, 13.0, 0.0);
( 658327.3, 4184364.9, 13.0, 13.0, 0.0); ( 658326.6,
4184384.6, 13.1, 13.1, 0.0);
( 658325.7, 4184400.5, 13.1, 13.1, 0.0); ( 658351.9,
4184356.4, 13.2, 13.2, 0.0);
( 658411.4, 4184331.2, 13.1, 13.1, 0.0); ( 658460.9,
4184332.6, 13.1, 13.1, 0.0);
( 658489.4, 4184334.4, 13.0, 13.0, 0.0); ( 658538.9,
4184336.4, 13.1, 13.1, 0.0);
( 658634.0, 4184363.1, 13.2, 13.2, 0.0); ( 658575.2,
4184376.2, 13.0, 13.0, 0.0);
( 658792.3, 4184311.5, 13.5, 13.5, 0.0); ( 658328.2,
4184428.2, 13.1, 13.1, 0.0);
( 658324.6, 4184463.8, 12.7, 12.7, 0.0); ( 658340.1,
4184463.9, 12.7, 12.7, 0.0);
( 658356.9, 4184464.5, 12.7, 12.7, 0.0); ( 658372.2,
4184464.6, 12.6, 12.6, 0.0);
( 658385.9, 4184464.8, 12.6, 12.6, 0.0); ( 658404.0,
4184465.2, 12.5, 12.5, 0.0);
( 658420.2, 4184465.1, 12.5, 12.5, 0.0); ( 658435.7,
4184466.4, 12.5, 12.5, 0.0);
( 658336.3, 4184188.4, 12.6, 12.6, 0.0); ( 658338.8,
4184167.0, 12.5, 12.5, 0.0);
( 658339.5, 4184149.7, 12.5, 12.5, 0.0); ( 658338.6,
4184131.8, 12.4, 12.4, 0.0);
( 658339.6, 4184114.2, 12.3, 12.3, 0.0); ( 658339.5,
4184096.9, 12.2, 12.2, 0.0);
( 658528.9, 4184142.7, 13.2, 13.2, 0.0); ( 658610.0,
4184144.3, 13.4, 13.4, 0.0);
( 658681.5, 4184145.8, 13.3, 13.3, 0.0); ( 658822.7,
4184110.0, 13.4, 13.4, 0.0);
( 658341.0, 4184077.3, 12.2, 12.2, 0.0); ( 658342.2,
4184057.4, 12.3, 12.3, 0.0);
( 658342.5, 4184040.6, 12.3, 12.3, 0.0); ( 658343.4,
4184024.3, 12.3, 12.3, 0.0);
( 658344.0, 4184004.7, 12.3, 12.3, 0.0); ( 658345.0,
4183986.3, 12.2, 12.2, 0.0);
( 658345.5, 4183969.1, 12.2, 12.2, 0.0); ( 658347.1,
4183948.8, 12.2, 12.2, 0.0);
( 658348.1, 4183931.8, 12.2, 12.2, 0.0); ( 658348.7,
4183912.7, 12.2, 12.2, 0.0);
```

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 658349.4, 4183895.6, | 12.2, | 12.2, | 0.0); | ( 658350.3, |
| 4183876.2,             | 12.2, | 12.2, | 0.0); |             |
| ( 658705.4, 4184490.6, | 13.1, | 13.1, | 0.0); | ( 658356.0, |
| 4183814.1,             | 11.8, | 11.8, | 0.0); |             |
| ( 658783.4, 4183908.0, | 12.8, | 12.8, | 0.0); | ( 658845.0, |
| 4184011.4,             | 12.6, | 12.6, | 0.0); |             |
| ( 657852.8, 4184359.5, | 12.2, | 12.2, | 0.0); | ( 658013.7, |
| 4184464.2,             | 12.4, | 12.4, | 0.0); |             |
| ( 658356.2, 4183852.6, | 12.1, | 12.1, | 0.0); | ( 658487.9, |
| 4183854.8,             | 12.0, | 12.0, | 0.0); |             |
| ( 658621.3, 4183854.8, | 13.0, | 13.0, | 0.0); | ( 659354.0, |
| 4184491.9,             | 14.4, | 14.4, | 0.0); |             |
| ( 658618.8, 4184754.2, | 12.6, | 12.6, | 0.0); | ( 658624.8, |
| 4184647.1,             | 12.6, | 12.6, | 0.0); |             |
| ( 658624.1, 4184601.0, | 12.4, | 12.4, | 0.0); | ( 658684.4, |
| 4184796.5,             | 13.1, | 13.1, | 0.0); |             |
| ( 658912.1, 4184704.8, | 13.4, | 13.4, | 0.0); | ( 659090.7, |
| 4184904.7,             | 13.2, | 13.2, | 0.0); |             |
| ( 658921.0, 4184927.9, | 13.2, | 13.2, | 0.0); | ( 658586.3, |
| 4184908.5,             | 12.9, | 12.9, | 0.0); |             |
| ( 658405.0, 4184892.0, | 12.0, | 12.0, | 0.0); | ( 658487.0, |
| 4184919.0,             | 12.2, | 12.2, | 0.0); |             |
| ( 658581.4, 4184983.0, | 12.6, | 12.6, | 0.0); | ( 658428.6, |
| 4184853.4,             | 12.2, | 12.2, | 0.0); |             |
| ( 658445.1, 4184517.5, | 12.3, | 12.3, | 0.0); | ( 658435.7, |
| 4184690.5,             | 12.4, | 12.4, | 0.0); |             |
| ( 659317.3, 4184800.8, | 14.0, | 19.4, | 0.0); | ( 659331.3, |
| 4184657.3,             | 14.8, | 14.8, | 0.0); |             |
| ( 658029.0, 4184541.7, | 12.3, | 12.3, | 0.0); | ( 657824.7, |
| 4184529.3,             | 12.1, | 12.1, | 0.0); |             |
| ( 658007.6, 4184688.0, | 12.1, | 12.1, | 0.0); | ( 657931.2, |
| 4184677.0,             | 12.2, | 12.2, | 0.0); |             |
| ( 658885.7, 4183203.9, | 13.5, | 13.5, | 0.0); | ( 658727.1, |
| 4183244.6,             | 15.8, | 23.0, | 0.0); |             |
| ( 658692.9, 4183227.8, | 13.9, | 23.0, | 0.0); | ( 658622.5, |
| 4183228.8,             | 14.1, | 22.3, | 0.0); |             |
| ( 658545.9, 4183228.4, | 13.6, | 21.5, | 0.0); | ( 658475.8, |
| 4183222.9,             | 12.9, | 20.7, | 0.0); |             |
| ( 658424.3, 4183214.8, | 12.6, | 12.6, | 0.0); | ( 658273.8, |
| 4183234.2,             | 12.9, | 12.9, | 0.0); |             |
| ( 658205.9, 4183233.7, | 12.7, | 12.7, | 0.0); | ( 658044.0, |
| 4183240.9,             | 12.5, | 12.5, | 0.0); |             |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
 Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*  
 \*\*\*

\*\*\* 11:04:36

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 660186.6, 4184250.1, | 13.9, | 13.9, | 0.0); | ( 660213.2, |
| 4184424.9,             | 14.2, | 14.2, | 0.0); |             |
| ( 660287.3, 4184509.3, | 15.1, | 15.1, | 0.0); | ( 660215.9, |
| 4184164.6,             | 14.1, | 14.1, | 0.0); |             |
| ( 658605.1, 4184843.0, | 13.0, | 13.0, | 0.0); | ( 658612.5, |
| 4184909.5,             | 13.1, | 13.1, | 0.0); |             |
| ( 658656.9, 4184906.0, | 13.0, | 13.0, | 0.0); | ( 658485.8, |
| 4184891.5,             | 12.2, | 12.2, | 0.0); |             |
| ( 658609.5, 4185069.9, | 12.6, | 12.6, | 0.0); | ( 658618.1, |
| 4185023.1,             | 12.7, | 12.7, | 0.0); |             |
| ( 658608.3, 4185108.0, | 12.7, | 12.7, | 0.0); | ( 658527.2, |
| 4185095.9,             | 12.4, | 12.4, | 0.0); |             |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

```
* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED
*
* LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL
```

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***
***

```

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

(METERS/SEC)

11:04:36

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

|                      |                |                        |       |
|----------------------|----------------|------------------------|-------|
| Surface station no.: | 23258          | Upper air station no.: | 23230 |
| Name:                | UNKNOWN        | Name:                  |       |
|                      | OAKLAND/WSO_AP |                        |       |
| Year:                | 2018           | Year:                  | 2018  |

[illegible]



|          |      |       |       |        |        |       |      |       |      |      |      |      |
|----------|------|-------|-------|--------|--------|-------|------|-------|------|------|------|------|
| 18 01 01 | 1 15 | 60.0  | 0.135 | 1.065  | 0.019  | 731.  | 119. | -3.7  | 0.02 | 0.99 | 0.26 | 1.62 |
| 298.     | 10.0 | 291.4 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 16 | 15.4  | 0.170 | 0.678  | 0.019  | 735.  | 169. | -29.1 | 0.02 | 0.99 | 0.35 | 2.47 |
| 295.     | 10.0 | 291.4 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 17 | -14.5 | 0.165 | -9.000 | -9.000 | -999. | 161. | 30.1  | 0.03 | 0.99 | 0.60 | 2.61 |
| 310.     | 10.0 | 288.8 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 18 | -7.0  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 17.3  | 0.04 | 0.99 | 1.00 | 1.67 |
| 331.     | 10.0 | 286.4 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 19 | -1.8  | 0.060 | -9.000 | -9.000 | -999. | 35.  | 11.0  | 0.02 | 0.99 | 1.00 | 0.84 |
| 240.     | 10.0 | 285.4 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 20 | -1.7  | 0.061 | -9.000 | -9.000 | -999. | 36.  | 12.2  | 0.03 | 0.99 | 1.00 | 0.75 |
| 327.     | 10.0 | 282.5 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 21 | -1.8  | 0.063 | -9.000 | -9.000 | -999. | 38.  | 12.9  | 0.04 | 0.99 | 1.00 | 0.74 |
| 166.     | 10.0 | 282.0 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 22 | -4.0  | 0.081 | -9.000 | -9.000 | -999. | 55.  | 12.1  | 0.02 | 0.99 | 1.00 | 1.35 |
| 116.     | 10.0 | 280.9 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 23 | -5.2  | 0.092 | -9.000 | -9.000 | -999. | 67.  | 13.6  | 0.02 | 0.99 | 1.00 | 1.55 |
| 115.     | 10.0 | 279.9 | 2.0   |        |        |       |      |       |      |      |      |      |
| 18 01 01 | 1 24 | -4.4  | 0.084 | -9.000 | -9.000 | -999. | 59.  | 12.6  | 0.02 | 0.99 | 1.00 | 1.42 |
| 119.     | 10.0 | 280.4 | 2.0   |        |        |       |      |       |      |      |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|------|------|---------|--------|--------|--------|
| 18 | 01 | 01 | 01 | 10.0   | 1 | 314. | 2.04 | 281.5   | 99.0   | -99.00 | -99.00 |

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

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15639
Spreckels\15639 Ops HRA\1 ***      09/20/24
*** AERMET - VERSION 21112 ***
***                                     ***      11:04:36
  
```

PAGE 94

```

*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION  VALUES FOR
SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      IDLE1      , IDLE2      ,
      IDLE3      , IDLE4      , IDLE5      ,
IDLE6      , IDLE7      , IDLE8      , IDLE9      , IDLE10      ,
IDLE11      , IDLE12      , IDLE13      ,
IDLE14      , IDLE15      , IDLE16      , IDLE17      , IDLE18      ,
IDLE19      , IDLE20      , IDLE21      ,
IDLE22      , IDLE23      , IDLE24      , IDLE25      , IDLE26      ,
IDLE27      , IDLE28      , . . .      ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)  Y-COORD (M)  CONC  X-COORD (M)  Y-COORD
(M)  CONC
-----
658334.38  4184219.32  0.00727  658333.00
4184239.07  0.00970
658332.77  4184256.75  0.01176  658331.12
4184275.37  0.01343
658330.55  4184293.56  0.01424  658330.13
4184311.47  0.01424
658329.14  4184328.95  0.01389  658328.75
4184346.90  0.01242
658327.32  4184364.94  0.01003  658326.61
4184384.60  0.00811
658325.69  4184400.50  0.00737  658351.91
  
```

|            |            |         |           |
|------------|------------|---------|-----------|
| 4184356.45 | 0.01221    |         |           |
| 658411.42  | 4184331.21 | 0.01314 | 658460.92 |
| 4184332.62 | 0.01496    |         |           |
| 658489.41  | 4184334.45 | 0.01553 | 658538.91 |
| 4184336.42 | 0.01476    |         |           |
| 658633.98  | 4184363.12 | 0.00607 | 658575.23 |
| 4184376.20 | 0.00720    |         |           |
| 658792.31  | 4184311.46 | 0.00469 | 658328.23 |
| 4184428.16 | 0.00627    |         |           |
| 658324.56  | 4184463.84 | 0.00509 | 658340.07 |
| 4184463.88 | 0.00509    |         |           |
| 658356.85  | 4184464.48 | 0.00507 | 658372.20 |
| 4184464.60 | 0.00507    |         |           |
| 658385.86  | 4184464.84 | 0.00510 | 658403.96 |
| 4184465.20 | 0.00518    |         |           |
| 658420.15  | 4184465.08 | 0.00530 | 658435.73 |
| 4184466.40 | 0.00532    |         |           |
| 658336.30  | 4184188.36 | 0.00464 | 658338.79 |
| 4184166.96 | 0.00404    |         |           |
| 658339.45  | 4184149.70 | 0.00353 | 658338.62 |
| 4184131.78 | 0.00301    |         |           |
| 658339.62  | 4184114.19 | 0.00281 | 658339.45 |
| 4184096.93 | 0.00267    |         |           |
| 658528.90  | 4184142.67 | 0.02703 | 658609.95 |
| 4184144.35 | 0.03369    |         |           |
| 658681.53  | 4184145.79 | 0.02923 | 658822.70 |
| 4184109.99 | 0.01001    |         |           |
| 658341.04  | 4184077.32 | 0.00258 | 658342.17 |
| 4184057.42 | 0.00250    |         |           |
| 658342.45  | 4184040.64 | 0.00244 | 658343.44 |
| 4184024.27 | 0.00240    |         |           |
| 658344.00  | 4184004.66 | 0.00235 | 658345.03 |
| 4183986.32 | 0.00231    |         |           |
| 658345.54  | 4183969.09 | 0.00227 | 658347.07 |
| 4183948.81 | 0.00225    |         |           |
| 658348.08  | 4183931.79 | 0.00222 | 658348.70 |
| 4183912.73 | 0.00219    |         |           |
| 658349.41  | 4183895.60 | 0.00217 | 658350.33 |
| 4183876.24 | 0.00215    |         |           |
| 658705.37  | 4184490.63 | 0.00335 | 658356.00 |
| 4183814.13 | 0.00213    |         |           |
| 658783.42  | 4183907.96 | 0.00827 | 658844.96 |
| 4184011.43 | 0.00831    |         |           |
| 657852.76  | 4184359.55 | 0.00174 | 658013.70 |
| 4184464.19 | 0.00385    |         |           |
| 658356.21  | 4183852.60 | 0.00217 | 658487.87 |
| 4183854.81 | 0.00413    |         |           |
| 658621.29  | 4183854.81 | 0.00714 | 659353.96 |
| 4184491.93 | 0.00077    |         |           |
| 658618.84  | 4184754.20 | 0.00196 | 658624.83 |
| 4184647.10 | 0.00238    |         |           |
| 658624.08  | 4184601.04 | 0.00260 | 658684.37 |
| 4184796.51 | 0.00175    |         |           |
| 658912.05  | 4184704.77 | 0.00108 | 659090.68 |
| 4184904.74 | 0.00113    |         |           |
| 658921.04  | 4184927.95 | 0.00096 | 658586.26 |
| 4184908.48 | 0.00127    |         |           |
| 658405.01  | 4184892.00 | 0.00128 | 658487.02 |
| 4184918.97 | 0.00120    |         |           |
| 658581.39  | 4184983.00 | 0.00096 | 658428.60 |
| 4184853.43 | 0.00142    |         |           |
| 658445.08  | 4184517.53 | 0.00377 | 658435.72 |
| 4184690.54 | 0.00205    |         |           |
| 659317.34  | 4184800.77 | 0.00072 | 659331.28 |
| 4184657.35 | 0.00065    |         |           |
| 658029.00  | 4184541.67 | 0.00348 | 657824.73 |

4184529.27 0.00264

658007.60 4184688.03 0.00210

657931.24

4184676.97 0.00222

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639

Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24

\*\*\* AERMET - VERSION 21112 \*\*\*

\*\*\*

\*\*\*

11:04:36

PAGE 95

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): IDLE1 , IDLE2 ,  
IDLE3 , IDLE4 , IDLE5 ,  
IDLE6 , IDLE7 , IDLE8 , IDLE9 , IDLE10 ,  
IDLE11 , IDLE12 , IDLE13 ,  
IDLE14 , IDLE15 , IDLE16 , IDLE17 , IDLE18 ,  
IDLE19 , IDLE20 , IDLE21 ,  
IDLE22 , IDLE23 , IDLE24 , IDLE25 , IDLE26 ,  
IDLE27 , IDLE28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM IN  
MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD  
(M) CONC

|            |            |         |           |  |
|------------|------------|---------|-----------|--|
| 658885.71  | 4183203.88 | 0.00211 | 658727.12 |  |
| 4183244.58 | 0.00191    |         |           |  |
| 658692.88  | 4183227.78 | 0.00176 | 658622.47 |  |
| 4183228.75 | 0.00163    |         |           |  |
| 658545.92  | 4183228.43 | 0.00149 | 658475.83 |  |
| 4183222.94 | 0.00136    |         |           |  |
| 658424.28  | 4183214.81 | 0.00126 | 658273.79 |  |
| 4183234.19 | 0.00107    |         |           |  |
| 658205.87  | 4183233.72 | 0.00097 | 658043.97 |  |
| 4183240.94 | 0.00081    |         |           |  |
| 660186.59  | 4184250.08 | 0.00030 | 660213.20 |  |
| 4184424.91 | 0.00028    |         |           |  |
| 660287.31  | 4184509.29 | 0.00025 | 660215.86 |  |
| 4184164.56 | 0.00030    |         |           |  |
| 658605.12  | 4184843.00 | 0.00163 | 658612.49 |  |
| 4184909.54 | 0.00130    |         |           |  |
| 658656.93  | 4184905.99 | 0.00137 | 658485.76 |  |
| 4184891.51 | 0.00131    |         |           |  |
| 658609.54  | 4185069.95 | 0.00075 | 658618.13 |  |
| 4185023.06 | 0.00085    |         |           |  |
| 658608.32  | 4185108.05 | 0.00069 | 658527.17 |  |
| 4185095.88 | 0.00073    |         |           |  |
| 658631.88  | 4185217.21 | 0.00052 | 658636.02 |  |
| 4185282.57 | 0.00042    |         |           |  |
| 658560.32  | 4183641.32 | 0.00463 | 657679.02 |  |
| 4184224.32 | 0.00113    |         |           |  |
| 657815.11  | 4184143.25 | 0.00106 | 657534.91 |  |
| 4184333.00 | 0.00108    |         |           |  |
| 657495.41  | 4184354.76 | 0.00114 | 657529.76 |  |
| 4184355.90 | 0.00103    |         |           |  |
| 657370.02  | 4184525.38 | 0.00106 | 657339.76 |  |
| 4184465.00 | 0.00114    |         |           |  |
| 657013.06  | 4184509.19 | 0.00058 | 658388.97 |  |
| 4183233.05 | 0.00126    |         |           |  |
| 658823.50  | 4183226.17 | 0.00206 | 659051.36 |  |

4183064.93 0.00172  
658877.88 4184185.01 0.00462 660167.76  
4183945.94 0.00032  
657486.71 4184810.66  
0.00148

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 11:04:36

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS  
\*\*\*

\*\* CONC OF DPM IN  
MICROGRAMS/M\*\*3 \*\*

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL,  
ZFLAG) OF TYPE GRID-ID

-----

ALL 1ST HIGHEST VALUE IS 0.03369 AT ( 658609.95, 4184144.35, 13.35,  
13.35, 0.00) DC  
2ND HIGHEST VALUE IS 0.02923 AT ( 658681.53, 4184145.79, 13.27,  
13.27, 0.00) DC  
3RD HIGHEST VALUE IS 0.02703 AT ( 658528.90, 4184142.67, 13.15,  
13.15, 0.00) DC  
4TH HIGHEST VALUE IS 0.01553 AT ( 658489.41, 4184334.45, 13.04,  
13.04, 0.00) DC  
5TH HIGHEST VALUE IS 0.01496 AT ( 658460.92, 4184332.62, 13.11,  
13.11, 0.00) DC  
6TH HIGHEST VALUE IS 0.01476 AT ( 658538.91, 4184336.42, 13.07,  
13.07, 0.00) DC  
7TH HIGHEST VALUE IS 0.01424 AT ( 658330.13, 4184311.47, 12.90,  
12.90, 0.00) DC  
8TH HIGHEST VALUE IS 0.01424 AT ( 658330.55, 4184293.56, 12.84,  
12.84, 0.00) DC  
9TH HIGHEST VALUE IS 0.01389 AT ( 658329.14, 4184328.95, 12.96,  
12.96, 0.00) DC  
10TH HIGHEST VALUE IS 0.01343 AT ( 658331.12, 4184275.37, 12.78,  
12.78, 0.00) DC

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

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15639  
Spreckels\15639 Ops HRA\1 \*\*\* 09/20/24  
\*\*\* AERMET - VERSION 21112 \*\*\*  
\*\*\*

\*\*\* 11:04:36

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

```
A Total of          0 Fatal Error Message(s)
A Total of        133 Warning Message(s)
A Total of       2753 Informational Message(s)
```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

[illegible]

|         |      |                                                           |      |
|---------|------|-----------------------------------------------------------|------|
| SO W320 | 1579 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1580 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1581 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1582 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1583 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1584 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1585 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1586 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1587 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1588 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1589 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1590 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1591 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1634 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| SO W320 | 1635 | PPARM: Input Parameter May Be Out-of-Range for Parameter  | VS   |
| ME W186 | 8704 | MEOpen: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50 |
| ME W187 | 8704 | MEOpen: ADJ_U* Option for Stable Low Winds used in AERMET |      |

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

*This page intentionally left blank*



## **APPENDIX 2.5:**

### **RISK CALCULATIONS**

| Construction Risk |          |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       |                 |         |         |         |         |         |         |         |         |
|-------------------|----------|----------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------------------|------|-----|-------------|---------|---------|-----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Receptor No.      | Age Bin  | DPM Conc.<br>(µg/m³) | Exposure<br>Frequency<br>(days) | Exposure<br>Duration (years) | Inhalation Rate<br>(L/kg-day) | Inhalation<br>Absorption<br>Factor | Averaging<br>Time (years) | FAH  | ASF | Cancer Risk |         |         |                       | Non-Cancer Risk |         |         |         |         |         |         |         |         |
|                   |          |                      |                                 |                              |                               |                                    |                           |      |     | URF         | CPF     | Dose    | Risk (per<br>million) | REL             | RfD     | RESP    | CNS/PNS | CV/BL   | IMMUN   | KIDN    | REPRO   | EYES    |
| 1                 | 0 to 2   | 0.00935              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 6.2E-06 | 0.79                  | 5.0E+00         | 1.4E-03 | 1.9E-03 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.79            |         |         | 1.9E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 2                 | 16 to 41 | 0.04621              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 6.4E-06 | 0.08                  | 5.0E+00         | 1.4E-03 | 9.2E-03 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.08            |         |         | 9.2E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 3                 | 0 to 2   | 0.01519              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.0E-05 | 1.28                  | 5.0E+00         | 1.4E-03 | 3.0E-03 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 1.28            |         |         | 3.0E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 4<br>(MEIR)       | 0 to 2   | 0.03594              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 2.4E-05 | 3.02                  | 5.0E+00         | 1.4E-03 | 7.2E-03 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 3.02            |         |         | 7.2E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 5                 | 0 to 2   | 0.02335              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.5E-05 | 1.96                  | 5.0E+00         | 1.4E-03 | 4.7E-03 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 1.96            |         |         | 4.7E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 6<br>(MEIW)       | 16 to 41 | 0.06176              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 8.6E-06 | 0.11                  | 5.0E+00         | 1.4E-03 | 1.2E-02 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.11            |         |         | 1.2E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 7                 | 4 to 13  | 0.00084              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 2.4E-07 | 0.01                  | 5.0E+00         | 1.4E-03 | 1.7E-04 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.01            |         |         | 1.7E-04 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 8<br>(MEISC)      | 4 to 13  | 0.00220              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 6.2E-07 | 0.02                  | 5.0E+00         | 1.4E-03 | 4.4E-04 |         |         |         |         |         |         |
|                   | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.02            |         |         | 4.4E-04 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |

| Operational Risk - Without Mitigation |            |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       |                 |         |         |         |         |         |         |         |         |
|---------------------------------------|------------|----------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------------------|------|-----|-------------|---------|---------|-----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Receptor No.                          | Age Bin    | DPM Conc.<br>(µg/m³) | Exposure<br>Frequency<br>(days) | Exposure<br>Duration (years) | Inhalation Rate<br>(L/kg-day) | Inhalation<br>Absorption<br>Factor | Averaging<br>Time (years) | FAH  | ASF | Cancer Risk |         |         |                       | Non-Cancer Risk |         |         |         |         |         |         |         |         |
|                                       |            |                      |                                 |                              |                               |                                    |                           |      |     | URF         | CPF     | Dose    | Risk (per<br>million) | REL             | RfD     | RESP    | CNS/PNS | CV/BL   | IMMUN   | KIDN    | REPRO   | EYES    |
| 1                                     | -0.25 to 0 | 0.01624              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 5.6E-06 | 0.18                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                       | 0 to 2     | 0.01624              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.7E-05 | 4.33                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                       | 2 to 16    | 0.01624              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 8.9E-06 | 4.04                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                       | 16 to 30   | 0.01624              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 4.1E-06 | 0.62                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
| 2                                     | 16 to 41   | 0.05103              | 250                             | 25                           | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 8.0E-06 | 3.01                  | 5.0E+00         | 1.4E-03 | 1.0E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 3.01                  |                 |         | 1.0E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 3                                     | -0.25 to 0 | 0.01378              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.8E-06 | 0.15                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                       | 0 to 2     | 0.01378              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.4E-05 | 3.67                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                       | 2 to 16    | 0.01378              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 7.6E-06 | 3.43                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                       | 16 to 30   | 0.01378              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.4E-06 | 0.53                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
| 4<br>(MEIR)                           | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 7.78                  |                 |         | 1.1E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | -0.25 to 0 | 0.04694              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.6E-05 | 0.52                  | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                       | 0 to 2     | 0.04694              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.9E-05 | 12.51                 | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                       | 2 to 16    | 0.04694              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.6E-05 | 11.68                 | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                       | 16 to 30   | 0.04694              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.2E-05 | 1.80                  | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
| 5                                     | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 26.51                 |                 |         | 3.8E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | -0.25 to 0 | 0.04113              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.4E-05 | 0.45                  | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                       | 0 to 2     | 0.04113              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.3E-05 | 10.96                 | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                       | 2 to 16    | 0.04113              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.3E-05 | 10.23                 | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                       | 16 to 30   | 0.04113              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.0E-05 | 1.58                  | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
| 6<br>(MEIW)                           | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 23.23                 |                 |         | 3.3E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | 16 to 41   | 0.10638              | 250                             | 25                           | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 1.7E-05 | 6.28                  | 5.0E+00         | 1.4E-03 | 2.1E-02 |         |         |         |         |         |         |
| 7                                     | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 6.28                  |                 |         | 2.1E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | 4 to 13    | 0.00531              | 180                             | 9.00                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 1.5E-06 | 0.61                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
| 8<br>(MEISC)                          | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         | 0.61                  |                 |         | 1.1E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
|                                       | 4 to 13    | 0.01129              | 180                             | 9.00                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 3.2E-06 | 1.29                  | 5.0E+00         | 1.4E-03 | 2.3E-03 |         |         |         |         |         |         |
| Total                                 |            |                      |                                 |                              |                               |                                    |                           |      |     |             |         | 1.29    |                       |                 | 2.3E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |         |



| Operational Risk - With Mitigation |            |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       |                 |         |         |         |         |         |         |         |         |
|------------------------------------|------------|----------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------------------|------|-----|-------------|---------|---------|-----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Receptor No.                       | Age Bin    | DPM Conc.<br>(µg/m³) | Exposure<br>Frequency<br>(days) | Exposure<br>Duration (years) | Inhalation Rate<br>(L/kg-day) | Inhalation<br>Absorption<br>Factor | Averaging<br>Time (years) | FAH  | ASF | Cancer Risk |         |         |                       | Non-Cancer Risk |         |         |         |         |         |         |         |         |
|                                    |            |                      |                                 |                              |                               |                                    |                           |      |     | URF         | CPF     | Dose    | Risk (per<br>million) | REL             | RfD     | RESP    | CNS/PNS | CV/BL   | IMMUN   | KIDN    | REPRO   | EYES    |
| 1                                  | -0.25 to 0 | 0.00532              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.8E-06 | 0.06                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
|                                    | 0 to 2     | 0.00532              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 5.6E-06 | 1.42                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
|                                    | 2 to 16    | 0.00532              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.9E-06 | 1.32                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
|                                    | 16 to 30   | 0.00532              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.3E-06 | 0.20                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 3.00            |         |         | 4.3E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 2                                  | 16 to 41   | 0.01553              | 250                             | 25                           | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 2.4E-06 | 0.92                  | 5.0E+00         | 1.4E-03 | 3.1E-03 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.92            |         |         | 3.1E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 3                                  | -0.25 to 0 | 0.00464              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.6E-06 | 0.05                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |         |
|                                    | 0 to 2     | 0.00464              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.8E-06 | 1.24                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |         |
|                                    | 2 to 16    | 0.00464              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.5E-06 | 1.15                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |         |
|                                    | 16 to 30   | 0.00464              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.2E-06 | 0.18                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 2.62            |         |         | 3.7E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 4<br>(MEIR)                        | -0.25 to 0 | 0.01424              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.9E-06 | 0.16                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                    | 0 to 2     | 0.01424              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.5E-05 | 3.80                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                    | 2 to 16    | 0.01424              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 7.8E-06 | 3.54                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                    | 16 to 30   | 0.01424              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.6E-06 | 0.55                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 8.04            |         |         | 1.1E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 5                                  | -0.25 to 0 | 0.01242              | 350                             | 0.25                         | 361                           | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.3E-06 | 0.14                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |         |
|                                    | 0 to 2     | 0.01242              | 350                             | 2                            | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.3E-05 | 3.31                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |         |
|                                    | 2 to 16    | 0.01242              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 6.8E-06 | 3.09                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |         |
|                                    | 16 to 30   | 0.01242              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.1E-06 | 0.48                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 7.01            |         |         | 9.9E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 6<br>(MEIW)                        | 16 to 41   | 0.03369              | 250                             | 25                           | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 5.3E-06 | 1.99                  | 5.0E+00         | 1.4E-03 | 6.7E-03 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 1.99            |         |         | 6.7E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 7                                  | 4 to 13    | 0.00174              | 180                             | 9.00                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 4.9E-07 | 0.20                  | 5.0E+00         | 1.4E-03 | 3.5E-04 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.20            |         |         | 3.5E-04 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 8<br>(MEISC)                       | 4 to 13    | 0.00348              | 180                             | 9.00                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 9.8E-07 | 0.40                  | 5.0E+00         | 1.4E-03 | 7.0E-04 |         |         |         |         |         |         |
|                                    | Total      |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.40            |         |         | 7.0E-04 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |

| Combined Construction and Operational Risk - Without Mitigation |          |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       |                 |         |         |         |         |         |         |         |         |
|-----------------------------------------------------------------|----------|----------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------------------|------|-----|-------------|---------|---------|-----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Receptor No.                                                    | Age Bin  | DPM Conc.<br>(µg/m³) | Exposure<br>Frequency<br>(days) | Exposure<br>Duration (years) | Inhalation Rate<br>(L/kg-day) | Inhalation<br>Absorption<br>Factor | Averaging<br>Time (years) | FAH  | ASF | Cancer Risk |         |         |                       | Non-Cancer Risk |         |         |         |         |         |         |         |         |
|                                                                 |          |                      |                                 |                              |                               |                                    |                           |      |     | URF         | CPF     | Dose    | Risk (per<br>million) | REL             | RfD     | RESP    | CNS/PNS | CV/BL   | IMMUN   | KIDN    | REPRO   | EYES    |
| 1                                                               | 0 to 2   | 0.00935              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 6.2E-06 | 0.79                  | 5.0E+00         | 1.4E-03 | 1.9E-03 |         |         |         |         |         |         |
|                                                                 | 0 to 2   | 0.01624              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.7E-05 | 2.49                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                                                 | 2 to 16  | 0.01624              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 8.9E-06 | 4.04                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                                                 | 16 to 30 | 0.01624              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 4.1E-06 | 0.62                  | 5.0E+00         | 1.4E-03 | 3.2E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 7.94            |         |         | 1.2E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 2                                                               | 16 to 41 | 0.04621              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 6.4E-06 | 0.08                  | 5.0E+00         | 1.4E-03 | 9.2E-03 |         |         |         |         |         |         |
|                                                                 | 16 to 41 | 0.05103              | 250                             | 24.15                        | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 8.0E-06 | 2.91                  | 5.0E+00         | 1.4E-03 | 1.0E-02 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 2.99            |         |         | 1.9E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 3                                                               | 0 to 2   | 0.01519              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.0E-05 | 1.28                  | 5.0E+00         | 1.4E-03 | 3.0E-03 |         |         |         |         |         |         |
|                                                                 | 0 to 2   | 0.01378              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.4E-05 | 2.11                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                                                 | 2 to 16  | 0.01378              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 7.6E-06 | 3.43                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                                                 | 16 to 30 | 0.01378              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.4E-06 | 0.53                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 7.35            |         |         | 1.1E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 4<br>(MEIR)                                                     | 0 to 2   | 0.03594              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 2.4E-05 | 3.02                  | 5.0E+00         | 1.4E-03 | 7.2E-03 |         |         |         |         |         |         |
|                                                                 | 0 to 2   | 0.04694              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.9E-05 | 7.20                  | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                                                 | 2 to 16  | 0.04694              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.6E-05 | 11.68                 | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                                                 | 16 to 30 | 0.04694              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.2E-05 | 1.80                  | 5.0E+00         | 1.4E-03 | 9.4E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 23.70           |         |         | 3.5E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 5                                                               | 0 to 2   | 0.02335              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.5E-05 | 1.96                  | 5.0E+00         | 1.4E-03 | 4.7E-03 |         |         |         |         |         |         |
|                                                                 | 0 to 2   | 0.04113              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.3E-05 | 6.31                  | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                                                 | 2 to 16  | 0.04113              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.3E-05 | 10.23                 | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                                                 | 16 to 30 | 0.04113              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.0E-05 | 1.58                  | 5.0E+00         | 1.4E-03 | 8.2E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 20.08           |         |         | 2.9E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 6<br>(MEIW)                                                     | 16 to 41 | 0.06176              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 8.6E-06 | 0.11                  | 5.0E+00         | 1.4E-03 | 1.2E-02 |         |         |         |         |         |         |
|                                                                 | 16 to 41 | 0.10638              | 250                             | 24.15                        | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 1.7E-05 | 6.07                  | 5.0E+00         | 1.4E-03 | 2.1E-02 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 6.18            |         |         | 3.4E-02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 7                                                               | 4 to 13  | 0.00084              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 2.4E-07 | 0.01                  | 5.0E+00         | 1.4E-03 | 1.7E-04 |         |         |         |         |         |         |
|                                                                 | 4 to 13  | 0.00531              | 180                             | 8.15                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 1.5E-06 | 0.55                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 0.56            |         |         | 1.2E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |
| 8<br>(MEISC)                                                    | 4 to 13  | 0.00220              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 6.2E-07 | 0.02                  | 5.0E+00         | 1.4E-03 | 4.4E-04 |         |         |         |         |         |         |
|                                                                 | 4 to 13  | 0.01129              | 180                             | 8.15                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 3.2E-06 | 1.17                  | 5.0E+00         | 1.4E-03 | 2.3E-03 |         |         |         |         |         |         |
|                                                                 | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       | 1.19            |         |         | 2.7E-03 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |

| Combined Construction and Operational Risk - With Mitigation |          |                      |                                 |                              |                               |                                    |                           |      |     |             |         |         |                       |                 |         |         |         |         |         |         |         |      |
|--------------------------------------------------------------|----------|----------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------------------|------|-----|-------------|---------|---------|-----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|------|
| Receptor No.                                                 | Age Bin  | DPM Conc.<br>(µg/m³) | Exposure<br>Frequency<br>(days) | Exposure<br>Duration (years) | Inhalation Rate<br>(L/kg-day) | Inhalation<br>Absorption<br>Factor | Averaging<br>Time (years) | FAH  | ASF | Cancer Risk |         |         |                       | Non-Cancer Risk |         |         |         |         |         |         |         |      |
|                                                              |          |                      |                                 |                              |                               |                                    |                           |      |     | URF         | CPF     | Dose    | Risk (per<br>million) | REL             | RfD     | RESP    | CNS/PNS | CV/BL   | IMMUN   | KIDN    | REPRO   | EYES |
| 1                                                            | 0 to 2   | 0.00935              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 6.2E-06 | 0.79                  | 5.0E+00         | 1.4E-03 | 1.9E-03 |         |         |         |         |         |      |
|                                                              | 0 to 2   | 0.00532              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 5.6E-06 | 0.82                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |      |
|                                                              | 2 to 16  | 0.00532              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.9E-06 | 1.32                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |      |
|                                                              | 16 to 30 | 0.00532              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.3E-06 | 0.20                  | 5.0E+00         | 1.4E-03 | 1.1E-03 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 3.13    |         |                       | 5.1E-03         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 2                                                            | 16 to 41 | 0.04621              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 6.4E-06 | 0.08                  | 5.0E+00         | 1.4E-03 | 9.2E-03 |         |         |         |         |         |      |
|                                                              | 16 to 41 | 0.01553              | 250                             | 24.15                        | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 2.4E-06 | 0.89                  | 5.0E+00         | 1.4E-03 | 3.1E-03 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 0.97    |         |                       | 1.2E-02         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 3                                                            | 0 to 2   | 0.01519              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.0E-05 | 1.28                  | 5.0E+00         | 1.4E-03 | 3.0E-03 |         |         |         |         |         |      |
|                                                              | 0 to 2   | 0.00464              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 4.8E-06 | 0.71                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |      |
|                                                              | 2 to 16  | 0.00464              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 2.5E-06 | 1.15                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |      |
|                                                              | 16 to 30 | 0.00464              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 1.2E-06 | 0.18                  | 5.0E+00         | 1.4E-03 | 9.3E-04 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 3.32    |         |                       | 5.8E-03         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 4<br>(MEIR)                                                  | 0 to 2   | 0.03594              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 2.4E-05 | 3.02                  | 5.0E+00         | 1.4E-03 | 7.2E-03 |         |         |         |         |         |      |
|                                                              | 0 to 2   | 0.01424              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.5E-05 | 2.18                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |      |
|                                                              | 2 to 16  | 0.01424              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 7.8E-06 | 3.54                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |      |
|                                                              | 16 to 30 | 0.01424              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.6E-06 | 0.55                  | 5.0E+00         | 1.4E-03 | 2.8E-03 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 9.29    |         |                       | 1.6E-02         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 5                                                            | 0 to 2   | 0.02335              | 221                             | 0.85                         | 1090                          | 1                                  | 70                        | 1.00 | 10  | 3.0E-04     | 1.1E+00 | 1.5E-05 | 1.96                  | 5.0E+00         | 1.4E-03 | 4.7E-03 |         |         |         |         |         |      |
|                                                              | 0 to 2   | 0.01242              | 350                             | 1.15                         | 1090                          | 1                                  | 70                        | 0.85 | 10  | 3.0E-04     | 1.1E+00 | 1.3E-05 | 1.90                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |      |
|                                                              | 2 to 16  | 0.01242              | 350                             | 14                           | 572                           | 1                                  | 70                        | 0.72 | 3   | 3.0E-04     | 1.1E+00 | 6.8E-06 | 3.09                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |      |
|                                                              | 16 to 30 | 0.01242              | 350                             | 14                           | 261                           | 1                                  | 70                        | 0.73 | 1   | 3.0E-04     | 1.1E+00 | 3.1E-06 | 0.48                  | 5.0E+00         | 1.4E-03 | 2.5E-03 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 7.43    |         |                       | 1.2E-02         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 6<br>(MEIW)                                                  | 16 to 41 | 0.06176              | 221                             | 0.85                         | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 8.6E-06 | 0.11                  | 5.0E+00         | 1.4E-03 | 1.2E-02 |         |         |         |         |         |      |
|                                                              | 16 to 41 | 0.03369              | 250                             | 24.15                        | 230                           | 1                                  | 70                        | 1.00 | 1   | 3.0E-04     | 1.1E+00 | 5.3E-06 | 1.92                  | 5.0E+00         | 1.4E-03 | 6.7E-03 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 2.03    |         |                       | 1.9E-02         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 7                                                            | 4 to 13  | 0.00084              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 2.4E-07 | 0.01                  | 5.0E+00         | 1.4E-03 | 1.7E-04 |         |         |         |         |         |      |
|                                                              | 4 to 13  | 0.00174              | 180                             | 8.15                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 4.9E-07 | 0.18                  | 5.0E+00         | 1.4E-03 | 3.5E-04 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 0.19    |         |                       | 5.2E-04         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |
| 8<br>(MEISC)                                                 | 4 to 13  | 0.00220              | 180                             | 0.85                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 6.2E-07 | 0.02                  | 5.0E+00         | 1.4E-03 | 4.4E-04 |         |         |         |         |         |      |
|                                                              | 4 to 13  | 0.00348              | 180                             | 8.15                         | 572                           | 1                                  | 70                        | 1.00 | 3   | 3.0E-04     | 1.1E+00 | 9.8E-07 | 0.36                  | 5.0E+00         | 1.4E-03 | 7.0E-04 |         |         |         |         |         |      |
|                                                              | Total    |                      |                                 |                              |                               |                                    |                           |      |     |             | 0.38    |         |                       | 1.1E-03         | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 |      |



*This page intentionally left blank*

## **APPENDIX 2.6:**

### **MODELED RECEPTORS**





*This page intentionally left blank*