Final Environmental Impact Report

Coachella Airport Business Park Development
SCH No. 2023040106

March 2026

Prepared for:
City of Coachella
53990 Enterprise Way
Coachella, CA 92236



Prepared by:
Alum Group
44-600 Village Court, Suite 100
Palm Desert, CA 92260

MNS Engineers, Inc.
3850 Vine Street, Suite 110
Riverside, CA 92507

Table of Contents

1.0 Introduction 1
2.0 Responses to Comments 2
3.0 Errata 284
4.0 Mitigation Monitoring and Reporting Program 296

List of Tables

Table 1: List of Public Agencies, Tribes, and Organizations Commenting on the Draft EIR.....3

Table 2: Mitigation Monitoring and Reporting Checklist 298

List of Attachments

Attachment B2: AQ/GHG/HRA Responses to Comments Technical Memorandum (Vista Environmental, October 2, 2025)

Attachment C2: Biological Resources Responses to Comments Technical Memorandum (Rincon Consultants, November 3, 2025)

Attachment D2: Cultural Resources Responses to Comments Technical Memorandum (Chronicle Heritage, October 2, 2025)

Attachment H2: Noise Responses to Comments Technical Memorandum (AMBIENT Air Quality and Noise Consulting, October 21, 2025)

Attachment I2: Transportation Responses to Comments Technical Memorandum (Integrated Engineering Group, October 14, 2025)

Attachment I3: Supplemental Transportation Exhibits (Replacement of the Airport Boulevard Bridge Over Whitewater River Project, Preliminary Project Overview Interim Striping) (Dokken Engineering, September 2024)

1.0 Introduction

In accordance with the California Environmental Quality Act Guidelines ("CEQA Guidelines") Section 15088, the City of Coachella, as the lead agency, has evaluated the comments received on the Coachella Airport Business Park EIR (Draft EIR) (State Clearinghouse No. 2023040106).

The Draft EIR for the proposed Coachella Airport Business Park (the "Project" or "Proposed Project") was distributed to responsible and trustee agencies, interested groups, and organizations. The Draft EIR was made available for public review and comment for a period of 45 days. The public review period for the Draft EIR established by the CEQA Guidelines commenced on July 21, 2025, and concluded on September 3, 2025.

The Final EIR consists of the following components:

- Section 1.0 – Introduction
- Section 2.0 – Response to Comments
- Section 3.0 – Errata
- Section 4.0 – Mitigation Monitoring and Reporting Program

Due to its length, the text of the Draft EIR is not included with this document; however, it is included by reference in this Final EIR. None of the corrections or clarifications to the Draft EIR identified in this document constitutes "significant new information" pursuant to CEQA Guidelines Section 15088.5. As a result, a recirculation of the Draft EIR is not required.

2.0 Responses to Comments

In accordance with the CEQA Guidelines Section 15088, the City of Coachella, as the lead agency, evaluated the written comments received on the Draft Environmental Impact Report (EIR) (State Clearinghouse No. 2023040106) for the Project and has prepared the following responses to the comments received. This Response to Comments document becomes part of the Final EIR for the Project in accordance with CEQA Guidelines Section 15132.

A list of public agencies, organizations, and individuals that provided comments on the Draft EIR is presented below in Table 1, *List of Public Agencies, Tribes, and Organizations Commenting on the Draft EIR*. Individual comments within each communication have been numbered so comments can be crossed-referenced with responses. Following this list, the text of the communication is reprinted and followed by the corresponding response.

Table 1: List of Public Agencies, Tribes, and Organizations Commenting on the Draft EIR

Comment Letter No.	Agency, Tribe, or Organization	Letter Dated
Agencies		
1	Desert Sands Unified School District	July 30, 2025
2	City of La Quinta	August 7, 2025
3	County of Riverside Transportation and Land Management Agency	September 2, 2025
4	U.S. Fish and Wildlife Service	September 2, 2025
5	South Coast Air Quality Management District	September 3, 2025
Tribes		
6	Torres Martinez Desert Cahuilla Indians	July 21, 2025
7	Agua Caliente Band of Cahuilla Indians	July 23, 2025
Organizations		
8	Southern California Gas Company	July 21, 2025
9	Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law	August 6, 2025
10	Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law	August 6, 2025
11	Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law	August 6, 2025
12	Supporters Alliance for Environmental Responsibility via Lozeau Drury, LLP	August 6, 2025
13	Advocates for the Environment	September 3, 2025
Comment Letters Received After the Close of the Comment Period		
14	California Department of Fish and Wildlife	September 4, 2025
15	California Department of Transportation	September 10, 2025
16	Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law	September 11, 2025
17	Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law	August 21, 2025

Comment Letter 1 (page 1 of 1)

Comment Letter No.1

Thursday, July 31, 2025 at 7:29:20 AM Pacific Daylight Time

Subject: FW: Coachella Airport Business Park
Date: Wednesday, July 30, 2025 at 5:17:33 PM Pacific Daylight Time
From: Kendra Reif
To: Nicole Criste
Attachments: ~WRD0814.jpg, DIR- Coachella Airport Business Park.pdf

From: Castillo, Yaneli <yaneli.castillo@desertsands.us>
Sent: July 30 25 10:03 AM
To: Kendra Reif <kreif@coachella.org>
Subject: Coachella Airport Business Park

Good morning Kendra,

The project below is not within Desert Sands Unified School District boundaries:

Project Name: Coachella Airport Business Park
Project Location: Northwest corner of the intersection of State Route 86 (SR 86) and Airport Boulevard in the city of Coachella (City) County of Riverside.

1-1

Thank you,

1 of 1

Response to Comment Letter 1

Yaneli Castillo
Desert Sands Unified School District
July 30, 2025

1-1 This comment states that the Project is not within Desert Sands Unified School District boundaries. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Comment Letter 2 (page 1 of 1)

Comment Letter No. 2

La Quinta
CALIFORNIA

August 7, 2025 Sent via Email

Kendra Reif, Community Development Director
City of Coachella Development Services, Planning Division
53990 Enterprise Way
Coachella, CA 92236

SUBJECT: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park

Dear Kendra Reif,

Thank you for the opportunity to review and comment on the above-mentioned project. The City of La Quinta has no comments at this time. Please keep us on your distribution list for any future public notices pertaining to this project. You may email notices to Scott Nespor, Senior Planner, at snespor@laquintaca.org. 2-1

Sincerely,

Scott Nespor
Senior Planner

Cc: Cheri Flores, Interim Director of Design Development Department

78495 Calle Tampico | La Quinta, California 92253 | 760.777.7000 | www.laquintaca.gov

Response to Comment Letter 2

Scott Nespor, Senior Planner
City of La Quinta
August 7, 2025

2-1 The commenter states that the City of La Quinta has no comments at this time. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Comment Letter 3 (page 1 of 3)

Comment Letter No. 3

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY

Dennis Acuna, P. E., T. E.
Director of Transportation

Hector D. Davila, P.E.
Deputy for Transportation/Capital Projects

Russell Williams
Deputy for Transportation/Planning and Development

Transportation Department

September 2, 2025
Sent via e-mail

Kendra Reif
Community Development Director
City of Coachella Development Services, Planning Division
53990 Enterprise Way,
Coachella, CA 92236

RE: Coachella Airport Business Park Project Notice of Preparation of a Draft EIR

Dear Ms. Kendra Reif:

The County of Riverside Transportation Department (County) has reviewed the Environmental Impact Report (EIR) from the City of Coachella for the Coachella Airport Business Park Project pursuant to the California Environmental Quality Act (CEQA).

The County, in coordination with the City of Coachella, is proposing the Airport Boulevard Bridge Replacement Project, adjacent to the Coachella Airport Business Park Project. The Airport Boulevard Bridge Replacement Project is proposing to replace the existing two--lane bridge with a new wider two-lane bridge. The replacement bridge will be constructed at a width of 71 feet and includes 6-foot-wide sidewalks on both sides of the bridge, 8-foot-wide shoulders, a 14-foot-wide eastbound and westbound lane, and a 12-foot-wide striped median/turn lane. 3-1

The County previously provided comments regarding the Coachella Airport Business Park on the Notice of Preparation (NOP) in 2023. These comments pertained to Parking and Circulation, Noise, Transportation, Tribal Cultural Resources, and Mandatory Findings of Significance.

Please find the County's comments on the EIR for the Coachella Airport Business Park Project below.

COMMENT #1 – Section 2.5.6 | Project Site Circulation and Parking

Please provide information regarding the necessary improvements and geometrics of the proposed intersection signalization and proposed main access point on Airport Boulevard for the Coachella Airport Business Park Project in the Project Site Circulation and Parking section. 3-2

4080 Lemon Street, 8th Floor · Riverside, CA 92501 · (951) 955-6740
P.O. Box 1090 · Riverside, CA 92502-1090 · FAX (951) 955-3198

Comment Letter 3 (page 2 of 3)

COMMENT #2 – Section 2.5.8 | Required Approvals

An Encroachment Permit from the County of Riverside will be required for any work within County right-of-way along Airport Boulevard. Please include an Encroachment Permit from the County of Riverside in Table 2.5. 3-3

COMMENT #3 – Section 3.3 | Cumulative Development

Tables 3-1 and 3-2 only include development projects and should also include the Airport Boulevard Bridge Replacement Project, the Coachella Valley Water District's Stormwater Channel Improvement Project, and other known future infrastructure projects in the vicinity. The bridge replacement project was approved by the County of Riverside Board of Supervisors on 6/13/23 and should be included within the cumulative analysis. 3-4

COMMENT #4 – Section 4.15 | Public Services

Within the Public Services section of the EIR, please include additional details regarding any emergency services access conflicts with the Desert View Mobile Home Park. Exhibit 2.4 Site Plan shows a proposed signalized intersection at the eastern bridge abutment; however, a driveway entrance into the Desert View Mobile Home Park is located just to the east of this intersection. Please include additional details regarding any proposed changes to access that would affect emergency services for this community as a result of the proposed signalized intersection. 3-5

COMMENT #5 – Section 4.17 | Transportation

Within the Transportation section of the EIR, please include additional details regarding any access conflicts with the Desert View Mobile Home Park. Exhibit 2.4 Site Plan shows a proposed signalized intersection at the eastern bridge abutment; however, a driveway entrance into the Desert View Mobile Home Park is located just to the east of this intersection. Please include additional details regarding any proposed changes to access for this community as a result of the proposed signalized intersection.

Additionally, although the City of Coachella's General Plan identifies Airport Boulevard as a 6-lane urban arterial in the buildout classifications for purposes of traffic analysis, there are no known programmed projects or environmental documentation to widen Airport Boulevard from two-lanes to four- or six-lanes in the future. Please include a discussion of any necessary future improvements anticipated with the widening of Airport Boulevard to six-lanes. Currently, the existing bridges over Union Pacific Railroad, Coachella Valley Storm Drain, and State Route 86 can only accommodate up to four lanes and future improvements likely would be needed in order to construct a 6-lane urban arterial at this location. 3-6

COMMENT #6 – Appendix I - Traffic Impact Analysis

The County has also reviewed the Traffic Impact Analysis and provides the following comments:

- Counts were collected on January 18, 2024. January 15 was a Holiday. Per the County's Transportation Analysis Guidelines traffic data should not be collected on weeks that include a holiday and non-school session time period unless approved by the Transportation Department. 3-7
- Figure 1-2 (Trip Distributions) is difficult to follow. Provide directional distributions by movement at all intersections.
- Provide a separate pass-by distribution figure.

4080 Lemon Street, 8th Floor · Riverside, CA 92501 · (951) 955-6740
P.O. Box 1090 · Riverside, CA 92502-1090 · FAX (951) 955-3198

Comment Letter 3 (page 3 of 3)

- Figure 1-3 to 1-5: trip assignment doesn't include pass-by trips. What happened to the pass-by volumes?
- Intersection 7 is split maintenance. Per the County's Guidelines, the project has a direct impact and is required to mitigate (construct improvements) due to LOS degrading from acceptable during the Existing scenario to unacceptable during EAP scenario.
- Intersection 1 is split maintenance. Per the County's Guidelines, the project has a direct impact and is required to mitigate (construct improvements) due to LOS degrading from acceptable during the Existing scenario to unacceptable during EAP scenario.
- Intersection 6: the County has concerns with queuing at this intersection. SimTraffic output sheets (Page 441 of 492) shows that the queues may be longer than 333'. Additional concerns in the southbound direction: the southbound through queues extend past the right turn storage. The project is required to mitigate. Provide Synchro files to the County for review.
- Clarify the recommended lane configurations at the new signalized driveway. A dedicated left turn lane is required. Is a dedicated right turn lane provided? Is the project proposing the widening of the bridge? Provide the site plan and truck turning template to the County for review.

3-7 Cont.

Conclusion

The County appreciates the opportunity to provide comments on the Coachella Airport Business Park Project's EIR. Continued coordination between the County of Riverside Transportation Department, City of Coachella, Haagen Co., LLC, and Terra Nova Planning & Research, Inc. is requested to ensure these Projects are not in conflict.

3-8

Thank you very much,

Umer Ahmed
Engineering Project Manager

4080 Lemon Street, 8th Floor · Riverside, CA 92501 · (951) 955-6740
P.O. Box 1090 · Riverside, CA 92502-1090 · FAX (951) 955-3198

Response to Comment Letter 3

Umer Ahmed, Engineering Project Manager
County of Riverside Transportation and Land Management Agency (TLMA)
September 2, 2025

3-1 This comment provides a general summary of the proposed Project. The comment also notes that the County previously provided comments regarding the Coachella Airport Business Park on the Notice of Preparation (NOP) in 2023 pertaining to Parking and Circulation, Noise, Transportation, Tribal Cultural Resources, and Mandatory Findings of Significance. Those comments were previously addressed in the DEIR which was circulated on July 21, 2025. Responses to specific comments newly enumerated in this comment are provided below. As it pertains to the Airport Boulevard Bridge Replacement Project, this project is an independent project being undertaken by Riverside County that was subject to its own environmental review, as noted in this comment. To clarify the analysis in the Draft EIR, the Airport Boulevard Bridge Replacement Project has been added to the list of cumulative projects at the commenter's request (see Response 3-4 below, and revised Tables 3-1 and 3-2 in the Draft EIR provided in Section 3.0 of this FEIR). In addition, exhibits depicting the proposed bridge improvements have been added to DEIR Section 4.17, Transportation as Exhibits 4.17-1 and 4.17-2 (see Section 3.0 of this FEIR). These clarifications and enhancements to the Draft EIR do not provide significant new information to the DEIR that would require recirculation because the additions do not change the DEIR in a way that deprives the public of a meaningful opportunity to comment on a significant adverse effect of the Project or a feasible way to mitigate or avoid such an impact.

3-2 This comment requests information regarding the necessary improvements and geometrics of the proposed intersection signalization and proposed main access point on Airport Boulevard for the Coachella Airport Business Park Project in the Project Site Circulation and Parking section in the DEIR. Please refer to Attachment I3, *Supplemental Transportation Exhibits (Replacement of the Airport Boulevard Bridge Over Whitewater River Project, Preliminary Project Overview Interim Striping) (Dokken Engineering, September 2024*), of this FEIR, which provides the information requested by the commenter. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

These exhibits will be added to Section 4.17, *Transportation,* of the DEIR (see Section 3.0, Errata). This comment does not assert any issue that must be addressed further pursuant to CEQA Guidelines.

3-3 The commenter requests that an Encroachment Permit from TLMA be added to Table 2.5, *Required Permits and Approvals,* in Section 2.0, Project Description, of the DEIR for any work within County right-of-way along Airport Boulevard. This change has been made to page 2.0-9 of the DEIR (Table 2.5) and is reflected in Section 3.0, Errata, of the Final EIR.

3-4 This comment requests that the Airport Boulevard Bridge Replacement Project (approved by the County of Riverside Board of Supervisors on 6/13/23), the Coachella Valley Water District's Stormwater Channel Improvement Project, and other known future infrastructure projects in the vicinity, be added to the Cumulative Projects lists in Tables 3-1 and 3-2 in the DEIR.

Section 15130(a) of the CEQA Guidelines provides that "[A]n EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable..." Cumulatively considerable, as defined in Section 15065(a)(3), "means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." An adequate discussion of significant cumulative impacts requires either: (1) "a list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency; or (2) "a summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area-wide conditions contributing to the cumulative impact."

The Airport Boulevard Bridge Replacement Project (SCH No. 2023030456) adopted a Negative Declaration on May 16, 2023, and filed a Notice of Determination on June 30, 2023. Those documents analyzed hydrology, traffic, and noise issues, finding only incremental construction noise and short-term emissions relevant. Although that project was found not to have significant individual impacts, its temporary construction emissions and traffic detours fall within the same geographic area as the proposed project and were therefore considered in the cumulative impact assessment in the DEIR. Refer to Section 3.0, Errata, of this FEIR, which shows the addition of the Airport Boulevard Bridge Replacement Project to the cumulative projects list as well as the addition of exhibits depicting the proposed bridge improvements in DEIR Section 4.17, Transportation. Construction noise and short-term emissions generated by the Airport Boulevard Bridge Replacement Project, when added to the cumulative baselines, would not exceed any applicable thresholds, so the combined effect of these projects would not be cumulatively considerable. Cumulative construction noise and short-term emissions impacts are therefore less than significant.

The CVWD's Stormwater Channel Improvement Project (SCH. No. 2015111067) adopted a FEIR on November 12, 2019. That document analyzed hydrology and flood-control impacts and found that the proposed project's incremental contribution to flood conveyance was minimal when considered in combination with the referenced channel improvement project and other projects in the watershed because it: 1) reduced flood risk and increased conveyance capacity, thereby improving baseline conditions for the drainage area; 2) did not alter the fundamental flood-conveyance function or increase upstream runoff beyond previously mitigated conditions; and 3) other planned or approved drainage/flood control projects were of the same subsurface/overland flow system. Hydrology and flood-control impacts, when added to the cumulative baselines, would not exceed any applicable thresholds, so the combined effect of these projects would not be cumulatively considerable. Cumulative hydrology and flood-control impacts are therefore less than significant. At the commenter's request, these projects have been added to Tables 3-1 and 3-2 of the DEIR and

are reflected in Section 3.0, Errata, of this FEIR, but this addition does not change any of the impact analysis or conclusions in the DEIR.

3-5 This comment requests that, within the Public Services section of the DEIR, additional details be included regarding any emergency services access conflicts with the Desert View Mobile Home Park. Exhibit 2.4, Site Plan, of the DEIR shows a proposed signalized intersection at the eastern bridge abutment; however, a driveway entrance into the Desert View Mobile Home Park is located just to the east of this intersection. Please also refer to Attachment I3, *Supplemental Transportation Exhibits (Replacement of the Airport Boulevard Bridge Over Whitewater River Project, Preliminary Project Overview Interim Striping) (Dokken Engineering, September 2024*), of this FEIR, which provides the clarifying information requested by the commenter. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

These exhibits will be added to Section 4.17, *Transportation,* of the DEIR, as shown in Section 3.0, Errata, of this FEIR. This comment does not assert any issue that must be addressed further pursuant to CEQA Guidelines.

3-6 This comment repeats the requested revisions noted in Response 3-5 for the Transportation section of the DEIR. In addition, the commenter notes that, although the City of Coachella's General Plan identifies Airport Boulevard as a 6-lane urban arterial in the buildout classifications for purposes of traffic analysis, there are no known programmed projects or environmental documentation to widen Airport Boulevard from two-lanes to four- or six-lanes in the future. The commenter further requests that a discussion of any necessary future improvements anticipated with the widening of Airport Boulevard to six-lanes also be included. Currently, the existing bridges over Union Pacific Railroad, Coachella Valley Stormwater Channel, and State Route 86 (SR-86) can only accommodate up to four lanes and future improvements likely would be needed in order to construct a 6-lane urban arterial at this location.

The TLMA's comment letter was also reviewed, and further clarifying responses were provided by Integrated Engineering Group in the *Coachella Airport Business Park Supplemental Transportation Analysis* (Transportation Responses to Comments Technical Memorandum), dated October 14, 2025 (provided as Attachment I2 of this FEIR). It should be noted that this attachment addresses the specific comments raised in the TLMA comment letter but does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the Traffic Impact Analysis contained in the DEIR Appendices. Based on this Technical Memorandum, appropriate ROW has been dedicated along the property frontage to accommodate potential widening of Airport Boulevard to 6 lanes in accordance with the General Plan buildout cross section, and as such, the Project would not conflict with the General Plan Circulation Element. However, based on future buildout of the area, a 4-lane roadway will accommodate the future growth forecasted by the regional

transportation model. As such, no revisions to the Project's Transportation Analysis or the DEIR are warranted.

3-7 The commenter provides the following comments and requested revisions for the Project's Traffic Impact Analysis document:

- Counts were collected on January 18, 2024. January 15 was a Holiday. Per the County's Transportation Analysis Guidelines traffic data should not be collected on weeks that include a holiday and non-school session time period unless approved by the Transportation Department.

  Based on additional information from Integrated Engineering Group, scheduling of the traffic data collection was coordinated and approved by the City of Coachella to be conducted on the Thursday after the Monday holiday, with two days in between for traffic to normalize. Schools were in session. Accordingly, January 18, 2024, was an appropriate day to conduct traffic counts. As such, no revisions to the Project's Transportation Analysis or DEIR are warranted.

- Figure 1-2 (Trip Distributions) is difficult to follow; provide directional distributions by movement at all intersections.

  Integrated Engineering Group has revised Figure 1-2 accordingly. Please refer to Attachment I2 of this FEIR for the updated figure. The revised Attachment will be attached to the EIR. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

- Provide a separate pass-by distribution figure.

  Integrated Engineering Group has provided a separate pass-by distribution figure. Please refer to Attachment I2 of this FEIR for this information. The updated document includes updated intersection volume figures including new Figure 1-2b to show pass-by trip distribution and assignment. Attachment I2 also includes updated intersection operation analysis for the Project driveway under all scenarios that include a Project phase. The revised Attachment will be attached to the EIR. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

- Figure 1-3 to 1-5: trip assignment doesn't include pass-by trips. What happened to the pass-by volumes?

Integrated Engineering Group has provided the pass-by trips in the trip assignment. Please refer to Attachment I2 of this FEIR for this information. The revised Attachment will be attached to the EIR.

- Intersection 7 is split maintenance. Per the County's Guidelines, the Project has a direct impact and is required to mitigate (construct improvements) due to LOS degrading from acceptable during the Existing scenario to unacceptable during EAP scenario.

  As discussed in Section 4.17, Transportation, of the DEIR (page 4.17-3), in 2018, the State CEQA Guidelines were amended to state that automobile delay, as measured by LOS and other similar measures of vehicle capacity or traffic congestion cannot be considered a significant impact on the environment (PRC Section 21099(b)(3)); State CEQA Guidelines section 15064.3). Information provided related to LOS is provided for informational purposes only and to ensure consistency with the General Plan and is not provided to analyze potentially significant CEQA impacts of the proposed Project. In addition, as discussed in Section 4.17, Transportation, of the DEIR, this location (Intersection 7, Avenue 54 and Grapefruit Boulevard) is deficient in all Opening Year Baseline scenarios prior to addition of the Project. Therefore, this is a cumulative deficiency. Per the County guidelines, where improvements identified in the TUMF or other funding mechanism that can provide the target LOS, payment of the applicable TUMF or DIF will be considered as the Project's cumulative contribution towards the identified improvements and will be implemented through conditions of approval. It should be noted that this improvement is identified in the TUMF. Therefore, the DEIR, at pages 4.17-16, 4.17-17, 4.17-20, 4.17-21, 4.17-24, 4.17-25, 4.17-28 and 4.17-29, appropriately identifies that the Project will contribute toward this improvement via fee payment to City of Coachella DIF and CVAG TUMF programs for Projects B-349 (Grapefruit Boulevard from Avenue 52 to Avenue 54) and B-350 (Grapefruit Boulevard from Avenue 54 to Avenue 56).

- Intersection 1 is split maintenance. Per the County's Guidelines, the Project has a direct impact and is required to mitigate (construct improvements) due to LOS degrading from acceptable during the Existing scenario to unacceptable during EAP scenario.

  As discussed above and explained in DEIR Section 4.17, Transportation, this location is deficient in Opening Year 2033 Baseline scenario prior to addition of the Project. Therefore, this should be considered a cumulative deficiency. Additionally, per the County Guidelines, improvements may be provided through the TUMF network or other funding mechanisms, which is how the Project is satisfying its fair share contribution obligation here.

- Intersection 6: the County has concerns with queuing at this intersection. SimTraffic output sheets (Page 441 of 492) shows that the queues may be longer than 333'. Additional concerns in the southbound direction: the southbound through queues

extend past the right turn storage. The Project is required to mitigate. Provide Synchro files to the County for review.

As discussed in Attachment I2 of this FEIR , the queue was analyzed using Synchro queue output, not SimTraffic. Additionally, the southbound and northbound through movement deficiency will be addressed by TUMF Project B-350. This Project is a roadway segment improvement to Grapefruit Boulevard, which is the original alignment of California State Route 111 (SR 111) and is locally maintained, and runs in a northwesterly direction from Avenue 56th at the south to Avenue 54th at the north. The existing condition of Grapefruit Blvd varies between a 2-lane and 4-lane arterial roadway, and Project improvements are described in Table 4-3 of Appendix I of the DEIR, which include upgrading this segment of Grapefruit Blvd to a 6-lane arterial roadway.

The Project is within the TUMF network and prioritized for funding, along with other transportation improvement projects within the Coachella Valley[1]. The Project will be responsible for paying into the TUMF program. Per the County guidelines, improvements identified in the TUMF or other funding mechanism that address deficiencies will be considered to adequately mitigate the Project's cumulative contribution towards the identified deficiency and will be implemented through conditions of approval. Since the City will include a condition of approval requiring the payment of TUMF fees, this standard requirement is equivalent to the County's standard, and no additional analysis or Mitigation Measures are warranted.

- Clarify the recommended lane configurations at the new signalized driveway. A dedicated left turn lane is required. Is a dedicated right-turn lane provided? Is the Project proposing the widening of the bridge? Provide the site plan and truck turning template to the County for review.

  A dedicated left-turn lane and a dedicated right-turn lane will be provided at the driveway per the intersection improvement plan. For further clarification, a detailed depiction of the intersection design is shown in Exhibits 4.17-1 and 4.17-2, which are provided in Section 3.0, Errata, of this FEIR and will be included in Section 4.17, Transportation, of the DEIR. The Project will not widen the bridge. It should be noted that these attachments do not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies. This comment does not assert any issue that must be addressed further pursuant to CEQA Guidelines.

3-8 The commenter concludes by requesting continued coordination between the County of Riverside Transportation Department, City of Coachella, Haagen Co., LLC, and Terra Nova Planning & Research, Inc. is requested to ensure these Projects are not in conflict. Continued

[1] Coachella Valley Association of Governments Transportation Uniform Mitigation Fee program.

coordination will occur as requested. This comment does not assert any issue that must be addressed further pursuant to CEQA Guidelines.

Comment Letter 4 (page 1 of 4)

Comment Letter No. 4

United States Department of the Interior
U.S. FISH AND WILDLIFE SERVICE
Ecological Services
Palm Springs Fish and Wildlife Office
777 East Tahquitz Canyon Way, Suite 208
Palm Springs, California 92262

In Reply Refer to:
2025-0143081-CEQA-TA-ERIV

September 2, 2025
Sent Electronically

Kendra Reif
Community Development Director
City of Coachella Development Services, Planning Division
53990 Enterprise Way
Coachella, California 92236

Subject: Notice of Availability and Completion of the Draft Environmental Impact Report or the Coachella Airport Business Park Project, City of Coachella, Riverside County, California

Dear Kendra Reif:

This letter is in response to the notice dated July 21, 2025, soliciting comments on the draft Environmental Impact Report (DEIR) for the Coachella Airport Business Park Project (Project) located in the City of Coachella, Riverside County, California. The Project Applicant proposes development of a business park, with approximately 42.36 acres (ac) of industrial uses and 5.6 ac for the construction of an Imperial Irrigation District (IID) electrical substation facility at the northern end of the Project site. Utility connections to Coachella Water Authority (CWA) waterlines and Coachella Valley Water District (CVWD) sewer lines are also proposed as part of the Project implementation. 4-1

We offer the following comments on the DEIR as they relate to potential impacts on public trust resources. The primary concern and mandate of the U.S. Fish and Wildlife Service (Service) is the conservation, protection, and enhancement of fish and wildlife resources and their habitats for the continuing benefit of the American people. The Service has legal responsibility for the welfare of migratory birds, anadromous fish, and threatened or endangered animals and plants listed under the Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*). The comments provided herein are based on the information provided in the draft DEIR and our knowledge of sensitive and declining fish and wildlife resources.

PROJECT DESCRIPTION

The proposed Project site is located at the northwest corner of the intersection of State Route 86 (SR-86) and Airport Boulevard in the City of Coachella (City). The Project is within the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP) Area, and the City is a Local Permittee to the CVMSHCP. Additionally, the Project site overlaps with CVMSHCP-modeled habitat for Coachella Valley round-tailed ground squirrel (*Spermophilus tereticaudus chlorus*) and Palm Springs pocket mouse (*Perognathus longimembris bangsi*). The proposed Project is for the 4-2

Comment Letter 4 (page 2 of 4)

development of a 47.96-ac business park, comprised of a fuel station with a convenience store, small business use spaces, a small retail and restaurant development, small and large warehouse structures, personal vehicle storage and self-storage units, and a billboard sign. A new 315-foot by 315-foot IID electrical substation will be constructed and require at least one transformer bank to provide adequate power for the Project. The construction of the substation will be determined in coordination with IID and may include additional facilities. Additionally, utility connections to CWA waterlines and CVWD sewer lines are proposed. 4-2 Cont.

NESTING BIRDS

The Biological Resources Assessment (BRA) associated with the DEIR states that a reconnaissance-level field survey was conducted on July 7, 2023, covering the 48-ac Project area as well as a 300-foot (ft) buffer (Study Area). During the field survey, the black-tailed gnatcatcher (*Polioptila melanura*) was observed within the northern portion of the Study Area, but no other nesting birds were observed. Please note that the DEIR states that the black-tailed gnatcatcher is a Covered Species by the CVMSHCP; however, the species is not currently covered under the CVMSHCP. The BRA also states that western burrowing owl (*Athene cunicularia hypugaea*; burrowing owl), a CVMSHCP-Covered Species, Service Bird of Conservation Concern, and candidate species under the California Endangered Species Act; crissal thrasher (*Toxostoma crissale*), a CVMSHCP-Covered Species; and loggerhead shrike (*Lanius ludovicianus*) have moderate potential to occur within the Study Area but were not observed during the field survey. Due to the presence of desert riparian habitat throughout the middle and northern portions of the Study Area and desert scrub habitat throughout the southern portion of the Study Area, we agree that these species have the potential to occur within the Study Area. Furthermore, the BRA states that the Study Area includes disturbed land throughout the Project site and adjacent to the SR-86, with sparse vegetative coverage and observations of previous vegetation clearance. The presence of sparse vegetation, particularly cover of shrubs, is suitable habitat for ground-nesting birds. Moreover, bare ground or sparse vegetation cover also constitutes suitable nesting habitat for some ground-nesting birds. Therefore, the proposed ground disturbance has the potential to impact nesting birds. However, the DEIR does not indicate that focused nesting bird surveys were completed, likely contributing to the lack of nesting bird observations during the field survey. Focused nesting bird surveys, both within and outside of nesting season, are necessary to accurately confirm nesting bird presence or absence. A complete assessment of the biological resources within the Project area is required to assess the Project's potential impacts to nesting birds. Please revise the DEIR to include a complete assessment of the Project's potential impacts to nesting bird habitat, including completion of nesting bird surveys during the appropriate time of year, to determine the extent of nesting birds on the Project site. 4-3

Additionally, Mitigation Measure (MM) BIO-1 states that Project-related activities shall not occur during the bird breeding season, from January 15 through August 31, unless pre-construction surveys are conducted within seven days prior to ground disturbance. The Service generally considers peak nesting season to be February 1 through September 15. Additionally, due to the potential of variation in timing of the nesting bird season, we recommend MM BIO-1 be revised to require nesting bird surveys throughout construction, both within and outside of nesting season, to avoid any potential adverse effects to nesting.

Comment Letter 4 (page 3 of 4)

BURROWING OWL

The BRA states that no signs of burrowing owls or burrows were observed during the field survey, although the California Natural Diversity Database indicates that the species has previously been observed within five miles of the Project site. The BRA also states that the Project site contains open arid habitat previously disturbed by heavy equipment and that burrowing owl are known to nest in disturbed areas. Additionally, as previously mentioned, the Project site overlaps with CVMSHCP-modeled habitat for the Coachella Valley round-tailed ground squirrel. Due to the presence of disturbed habitat within the Project site, the proximity of the Whitewater River channel and berms, and the potential for Coachella Valley round-tailed ground squirrels to occur and create burrows within the Project area, the Service determines that the Project site is likely suitable habitat for burrowing owl, and burrowing owls have the potential to inhabit the site. However, the DEIR does not indicate completion of focused burrowing owl surveys. Focused burrowing owl surveys during the breeding season and nonbreeding season are necessary to accurately confirm burrowing owl presence or absence. Pursuant to the California Department of Fish and Wildlife's (CDFW) Staff Report on Burrowing Owl Mitigation (2012 or most recent version), for both breeding and non-breeding season surveys, a minimum of four survey visits are required to assess a site for burrowing owl presence. Given the lack of multiple, focused burrowing owl surveys, the total number of burrowing owl individuals or suitable and occupied burrows within the Project area and a 500-foot buffer is unknown. Please revise the DEIR to include an accurate assessment of the Project's potential impacts to burrowing owl, including focused survey results following the protocols outlined in the 2012 Staff Report on Burrowing Owl Mitigation. 4-4

MM BIO-2 requires burrowing owl pre-construction surveys within 500 ft of the Project disturbance footprint. Further details regarding the burrowing owl survey methods are not provided. Please revise MM BIO-2 to specify that burrowing owl pre-construction surveys shall be conducted by a qualified biologist in accordance with the protocols described in the Staff Report on Burrowing Owl Mitigation. Additionally, due to the potential for burrowing owl to occur throughout the construction period, surveys for burrowing owls should be continued throughout construction to avoid any potential impacts to burrowing owl. MM BIO-2 also states that should the surveys determine burrowing owl presence, "the burrowing owl shall be relocated pursuant to accepted CDFW protocols". Please revise MM BIO-2 to require that, if the pre-construction surveys confirm burrowing owl presence, the Project applicant shall submit a Burrowing Owl Plan that includes avoidance, minimization, and mitigation measures to the Service and CDFW (collectively, Wildlife Agencies) for review and approval prior to beginning Project activities. The Project proponent shall coordinate with the Wildlife Agencies on the appropriate avoidance, minimization, and mitigation measures to be included in the Burrowing Owl Plan. Per Section 4.4 and Section 8.5.2 of the CVMSHCP, relocation of burrowing owls must follow protocols accepted by the Wildlife Agencies, and active relocation and eviction/passive relocation must be determined through coordination with the Wildlife Agencies for all Covered Activities. As such, please revise MM BIO-2 to state that if avoidance of burrowing owl is not possible, the Project applicant shall coordinate with the Wildlife Agencies on a burrowing owl relocation plan. Additionally, please submit the relocation plan to the Wildlife Agencies for review and approval. These measures are consistent with the City in fulfilling its obligations as a CVMSHCP Permittee.

Comment Letter 4 (page 4 of 4)

BATS

The draft BRA states that the Study Area contains habitat for several bat species, including the western yellow bat (*Lasiurus xanthinus*), a CVMSHCP-Covered Species, though no bat species were observed during the field survey. Due to the presence of the California fan palm oasis north of the Project site and the riparian woodland and scrub habitats within the northern portion of the Study Area, we agree with the BRA's conclusion that there is moderate potential for western yellow bat to occur on the Project site. However, the DEIR does not indicate completion of focused bat surveys. Focused bat surveys are necessary to accurately confirm the presence or absence of special-status bat species. Additionally, the DEIR does not include an assessment of bat roosting habitat in the bridge on Airport Boulevard, adjacent to the southern portion of the Project site and within the Study Area. Other bridges crossing the Whitewater River channel are known to support bat roosts, and the proximity of the bridge to the Project site has the potential to impact bats that may be roosting in the bridge throughout Project construction. An assessment of the Airport Boulevard bridge is needed to determine the Project's potential impacts to special-status bat species. Please revise the DEIR to include a complete assessment of the Project's potential impacts to bat habitat, including completion of focused bat surveys following accepted survey methods on the Project site and the Airport Boulevard bridge, to accurately determine the extent of bats on and adjacent to the Project site. 4-5

The DEIR includes MM BIO-3, which requires a special-status bat species emergence survey should construction activities occur within 300 ft of the California fan palm oasis during the bat maternity season. Further details regarding the bat emergence survey protocols are not provided. Please revise MM BIO-3 to include detailed information regarding the survey methods, including the number of days of acoustic monitoring, emergence roost counts, and number of roost count observers. Additionally, multiple surveys are required during the maternity season to accurately document roost activity. Please revise MM BIO-3 to require a minimum of two surveys during the maternity season, one during spring and one during summer. In addition to bat maternity season surveys, a winter survey and migration period survey should also be required to identify presence of bats in the Project site throughout the year. MM BIO-3 also requires avoidance and establishment of a buffer should any special-status bat species be observed during the maternity roosting season prior to construction. We recommend revising MM BIO-3 to require that, if bats are determined to be present at the Project site, avoidance and buffers are established at all times of year, regardless of maternity roosting season.

We appreciate the opportunity to provide comments on the DEIR. If you have any questions regarding these comments, please contact Lory Salazar-Velasquez.[1] 4-6

Sincerely,

MARY WOULFE Digitally signed by MARY WOULFE Date: 2025.09.02 15:12:25 -07'00'

for Brian Croft
Field Supervisor

[1] lory_salazar-velasquez@fws.gov.

Response to Comment Letter 4

Mary Woulfe for Brian Croft, Field Supervisor
U.S. Fish and Wildlife Service
September 2, 2025

4-1 This comment provides a general introduction. Responses to specific comments are provided below.

4-2 This comment includes a general summary of the proposed Project and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

4-3 The commenter notes that black-tailed gnatcatcher (*Polioptila melanura*) was observed within the northern portion of the Study Area. The commenter notes that the DEIR states the black-tailed gnatcatcher is listed as a Covered Species under the Coachella Valley Multiple Species Habitat Conservation Plan ("CVMSHCP"); however, this species is not currently covered under the CVMSHCP.

This change has been made to Section 4.4, *Biological Resources,* pages 4.4-12, 4.4-24 and 4.4-31 of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR. It should be noted that the discussion regarding black-tailed gnatcatcher will remain in DEIR Section 4.4, Biological Resources, p. 4.4-24 under the discussion of "Avian Species," since potential impacts to nesting birds and common passerine species protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (CFGC), including black-tailed gnatcatcher, could occur if nests are located on the Project Area and/or in the immediate vicinity during construction activities. Mitigation Measure BIO-1 (DEIR, page 4.4-30) requires the preparation of preconstruction surveys in compliance with MBTA, thereby protecting the black tailed gnatcatcher and reducing project impacts on the species to less than significant levels.

The commenter agrees that burrowing owl (*Athene cunicularia*, CVMSHCP-Covered Species, CDFW Species of Special Concern ("SSC"], and California Endangered Species Act ("CESA" Candidate Endangered), crissal thrasher (*Toxostoma crissale*, CVMSHCP-Covered Species), and loggerhead shrike (*Lanius ludovicianus*) have potential to occur within the Study Area. The commenter further states that the presence of sparse vegetation, particularly cover of shrubs, is suitable habitat for ground-nesting birds. Moreover, bare ground or sparse vegetation cover also constitutes suitable nesting habitat for some ground-nesting birds. Therefore, the proposed ground disturbance has the potential to impact nesting birds. The commenter states that the DEIR does not indicate that focused nesting bird surveys were completed, likely contributing to the lack of nesting bird observations during the field survey. The commenter recommends focused nesting bird surveys, both within and outside of nesting season, to accurately confirm nesting birds' presence or absence. The commenter claims that a complete assessment of the biological resources within the Project area is required to assess the Project's potential impacts to nesting birds, and requests that the DEIR be revised to include a complete assessment of the Project's potential impacts to nesting bird habitat, including

completion of nesting bird surveys during the appropriate time of year, to determine the extent of nesting birds on the Project site.

Pages 23 and 28 of the Project's Biological Resources Assessment ("BRA") and page 4.4-24 of the DEIR state that multiple nesting birds and raptors have the potential to nest in shrubs and trees and/or burrow on bare ground throughout and near the Study Area, and that numerous avian nests including verdins (*Auriparus flaviceps*) nesting in the mesquite (*Prosopis glandulosa*) and arrow weed (*Pluchea sericea*) thickets were observed within the Substation development area. The DEIR further states that no special status birds or raptors were observed, with the exception of black-tailed gnatcatcher, but suitable open habitats, trees, shrubs, and other vegetation provide the micro-habitats for these species to occur throughout the Project area. These observations further demonstrate that the Study Area is used by nesting birds.

The DEIR also states (page 4.4-24) that vegetation and open areas within and surrounding the Project area have the potential to provide refuge cover from predators, perching sites, and favorable conditions for avian nesting that could be affected by the proposed Project. The DEIR further states (page 4.4-24) that potential impacts to nesting birds could occur if nests are located on the Project area and/or in the immediate vicinity during construction activities. Direct impacts could occur to avian special-status species if active nests are disturbed during vegetation removal or ground disturbing activities. Direct impacts may also occur if active nests are located within close proximity to the Project area and are abandoned due to visual and/or acoustic Project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Therefore, as stated in the DEIR, impacts to special-status birds and raptors would be potentially significant without mitigation.

The USFWS's comment letter was reviewed, and further responses were provided by Rincon Consultants in the *Responses to Draft Environmental Impact Report Comments for the Coachella Airport Business Park in Coachella, Riverside County, California* (Biological Resources Responses to Comments Technical Memorandum), dated November 3, 2025 (provided as Attachment C2 of this FEIR). This attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies. Based on this Technical Memorandum, the assessment of potential Project impacts to nesting birds within the Study Area included in both the BRA and DEIR is adequate because no federally listed threatened or endangered birds were detected within the Study Area; and as prescribed in Mitigation Measure (MM) BIO-1, implementation of a pre-construction nesting bird survey prior to commencement of any vegetation removal or ground disturbance, and establishment of appropriate avoidance buffers if any active nests are detected during the survey until a qualified biologist has determined that nestlings have fledged or the nest is no longer active, are sufficient in order to avoid/minimize impacts to nesting birds.

Additionally, the commenter notes that MM BIO-1 in the DEIR states that Project-related activities shall not occur during the bird breeding season, from January 15 through August 31,

unless pre-construction surveys are conducted within seven days prior to ground disturbance. USFWS generally considers peak nesting season to be February 1 through September 15. The commenter also recommends that MM BIO-1 be revised to require nesting bird surveys throughout construction, both within and outside of nesting season, to account for variation in the timing of the nesting bird season and avoid any potential adverse effects to nesting.

As noted in Attachment C2 of this FEIR, it is typically not necessary to conduct nesting bird surveys outside of the bird nesting season, as birds are not typically nesting during that time of year. Due to the location of the Project site, it is not appropriate to extend the bird breeding season date into September as USFWS suggests because nesting at and around the Project site would occur at the earlier end of the specified nesting season due to the desert heat and other extreme weather conditions. Rincon suggests keeping the start of the breeding season as January 15 because raptors are known to nest as early as January. Rincon recommends modifying and adding language to MM BIO-1 with some of CDFW's suggested revisions to MM BIO-1, as described below in Response 14.11, in order to clarify and amplify this MM and facilitate its adequacy in protecting nesting birds. The recommended updated MM BIO-1 Nesting Bird Avoidance/Pre-construction Surveys is as follows:

"Prior to issuance of the Project's grading permit, the following measures shall be implemented:

To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within three ~~seven~~ days prior to vegetation removal or ground disturbance.

A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within three ~~seven~~ days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist will make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still

contain potential nesting habitat. No parking, storage of materials, or construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds."

This change has been made to Section 4.4, *Biological Resources,* page 4.4-26 (MM BIO-1) of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR.

4-4 The commenter notes that the BRA states that burrowing owls or burrows were not observed during the field survey, although the California Natural Diversity Database (CNDDB) indicates that the species has previously been observed within five miles of the Project site. The USFWS states that due to the presence of disturbed habitat within the Project site, the proximity of the Whitewater River channel and berms, and the potential for Coachella Valley round-tailed ground squirrels to occur and create burrows within the Project area, the Project site is likely suitable habitat for burrowing owl, and burrowing owls have the potential to inhabit the site. The commenter notes that the DEIR does not indicate completion of focused burrowing owl surveys. The commenter recommends that the DEIR include an accurate assessment of the Project's potential impacts to burrowing owl, including results from focused surveys during the breeding season and non-breeding season following the protocols outlines in CDFW's 2012 Staff Report on Burrowing Owl Mitigation.

Additionally, the commenter recommends that MM BIO-2 be revised to require burrowing owl pre-construction surveys by a qualified biologist in accordance with the protocols described in the Staff Report on Burrowing Owl Mitigation. The commenter also recommends that MM BIO-2 be revised to include burrowing owl surveys throughout the construction period. The commenter also recommends that MM BIO-2 be revised to require that, if the pre-construction surveys confirm burrowing owl presence, the Project applicant shall submit a Burrowing Owl Plan that includes avoidance, minimization, and mitigation measures to the USFWS and CDFW (collectively, Wildlife Agencies) for review and approval prior to beginning Project activities. The commenter notes that the Project proponent should coordinate with the Wildlife Agencies on the appropriate avoidance, minimization, and mitigation measures to be included in the Burrowing Owl Plan. The commenter further notes that per Section 4.4 and Section 8.5.2 of the CVMSHCP, relocation of burrowing owls must follow protocols accepted by the Wildlife Agencies, and active relocation and eviction/passive relocation must be determined through coordination with the Wildlife Agencies for all Covered Species. The commenter further requests that MM BIO-2 be revised to state that if avoidance of burrowing owl is not possible, the Project applicant shall coordinate with the Wildlife Agencies on a burrowing owl relocation plan, and requests that the relocation plan be submitted to the Wildlife Agencies for review and approval.

Based on the Biological Resources Responses to Comments Technical Memorandum (provided as Attachment C2 of this FEIR), Section 4.4 of the CVMSHCP requires burrowing owl surveys in CVMSHCP Conservation Areas. The Project site is outside of a Conservation Area; therefore, focused burrowing owl surveys are not required by the CVMSHCP for the Project. The biological resources field survey found no burrowing owl or their sign, and no burrows on the

Project site. The commenter provides no evidence that the species occupies the site. The site is not located in a CVMSHCP Conservation Area. MM BIO-2 requires pre-construction surveys for the species. If the species were to locate on the site, the required pre-construction surveys would identify them, and preclude Project activities, including grubbing prior to grading until such time as a mitigation program, including relocation if needed, was reviewed and implemented by the project biologist and CDFW, thereby eliminating the potential for Take of the species on the Project site. The City is complying with the requirements of both the CVMSHP and CESA by requiring MM BIO-2, and no change is required to assure protection of the species on the site. In order to provide clarity and direction, MM BIO-2 has been modified to explicitly cite the CDFW Staff Report as the correct protocol, and to prohibit Project activities until mitigation or avoidance measures are implemented, should the species be identified on site.

Therefore, MM BIO-2 will be revised as follows:

BIO-2 Burrowing Owl Pre-construction Survey

In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, pre-construction burrowing owl surveys shall be conducted by a qualified biologist no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the Staff Report on Burrowing Owl Mitigation (CDFW, 2012 or most recent version). Pre-construction surveys shall be conducted within 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not prior to the start of Project disturbance activities. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If either a nesting or escape burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow. The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to the Wildlife Agencies for approval prior to re-commencing Project activities within the restricted area ~~the burrowing owl shall be relocated pursuant to accepted CDFW protocols~~. A burrow is assumed occupied if records indicate that at least one burrowing owl has been observed occupying a burrow on site during the past three years. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of more than 30 days. ~~If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season (January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to nearest suitable habitat and presence of burrow) in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January)~~.

This change has been made to Section 4.4, *Biological Resources,* page 4.4-26 of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR. It should be noted that this change, including the identification of the burrowing owl as a candidate species, does not constitute significant

new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

4-5 The commenter notes that bat species were not observed during the field survey, but agrees with the BRA's conclusion that there is moderate potential for western yellow bat (*Lasiurus xanthinus*, CVMSHCP-Covered Species) to occur on the Project site due to the presence of the California fan palm oasis north of the Project site and the riparian woodland and scrub habitats within the northern portion of the Study Area. The commenter notes that the DEIR does not indicate completion of focused bat surveys. Additionally, the commenter states that the DEIR does not include an assessment of bat roosting habitat in the bridge on Airport Boulevard, adjacent to the southern portion of the Project site and within the Study Area. The commenter recommends that the DEIR be revised to include a complete assessment of the Project's potential impacts to bat habitat, including completion of focused bat surveys following accepted survey methods on the Project site and the Airport Boulevard bridge crossing over the Whitewater River channel.

Based on the Biological Resources Responses to Comments Technical Memorandum (provided as Attachment C2 of this FEIR), the CVMSHCP does not require focused bat surveys. MM BIO-3 requires a special-status bat species emergence survey if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat, which includes the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. MM BIO-3 also requires that any special-status bat species observed during the maternity roosting season within or adjacent to the Project area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of Project construction.

Additionally, the commenter recommends that MM BIO-3 is revised to include detailed information regarding survey methods, including the number of days of acoustic monitoring, emergence roost counts, and number of roost count observers.

The commenter also recommends that MM BIO-3 be revised to require a minimum of two surveys during the maternity season, one during spring and one during summer. Further, the commenter recommends that MM BIO-3 also be revised to require a winter survey and migration period survey, and to require that, if bats are determined to be present at the Project site, avoidance and buffers are established at all times of year, regardless of maternity roosting season.

The commenter recommends that MM BIO-3 be revised to require that, if bats are determined to be present at the Project site, avoidance and buffers are established at all times of year, regardless of maternity roosting season.

As noted in Attachment C2 of this FEIR, due to the fact that the CVMSHCP does not require focused bat surveys, a special-status bat species emergence survey is sufficient. Performance

standards are included in the MM as written, and further detail is not required. MM BIO-3 as written would ensure avoidance of special-status bat species during the maternity roosting season with establishment of a 100-foot to 300-foot buffer should any special-status bat species be detected. However, MM BIO-3 will be slightly revised to include the express mention of the Airport Boulevard bridge since it is included as an area of suitable roosting habitat, as follows:

BIO-3 Emergence Bat Survey

A special-status bat species emergence survey shall be conducted if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat, including the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. The emergence survey will be conducted 30 minutes before sunset and last for up to two hours after sunset. Any special-status bat species observed during the maternity roosting season within or adjacent to the Project Area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction.

4-6 The commenter concludes by providing a contact name for any questions associated with the above comments. Comment noted.

Comment Letter 5 (page 1 of 10)

Comment Letter No. 5

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL:
kreif@coachella.org
Kendra Reif, Community Development Director
City of Coachella Development Services, Planning Division
53990 Enterprise Way,
Coachella, CA 92236

September 3, 2025

Draft Environmental Impact Report (DEIR) for the Coachella Airport Business Park Project (Proposed Project) (SCH No: 2023040106)

South Coast Air Quality Management District (South Coast AQMD) staff appreciate the opportunity to review the above-mentioned document. The City of Coachella is the California Environmental Quality Act (CEQA) Lead Agency for the Proposed Project. To provide context, South Coast AQMD staff has provided a brief summary of the project information and prepared the following comments which are organized by topic of concern. 5-1

Summary of Proposed Project Information in the DEIR

Based on the DEIR, the Proposed Project would include the development of a currently vacant and undeveloped approximate 47.96 acres in the southeastern portion of the city of Coachella.[1] The overall Proposed Project site would be developed for approximately 42.36 acres of industrial uses while an Imperial Irrigation District (IID) substation would be located at the northern 5.6 acres of the Project site. The key components of the Project are summarized below:[2]

- **Fuel Station and Retail:** Ten fueling position gas station with an associated convenience store, located at the site's entrance along Airport Boulevard. The gas station is anticipated to have a maximum throughput of 2.0 million gallons of gasoline per year.[3]
- **Small Business Buildings:** Eighteen buildings, each approximately 4,500 square feet (totaling about 81,000 square feet).[4]
- **Personal Vehicle Storage:** Four structures averaging 19,200 square feet each (totaling approximately 76,800 square feet).[5]
- **Self-Storage Buildings:** Seventeen buildings ranging from 5,200 to 10,400 square feet (totaling approximately 128,600 square feet).[6]
- **Warehouses:** Five small warehouses ranging from 9,600 to 24,000 square feet (approximately 96,000 square feet total). Six large warehouses ranging from 22,400 to

5-2

[1] DEIR, page ES-1.
[2] *Ibid.*
[3] DEIR, page 4.3-26.
[4] DEIR, page 2.0-4.
[5] *Ibid.*
[6] *Ibid.*

Comment Letter 5 (page 2 of 10)

48,800 square feet (approximately 233,100 square feet total) would be developed along the northern portion of the site near the proposed substation.[7]

- **IID Electrical Substation:** A 315-foot by 315-foot IID substation which would require at least one 1–25 mega volt ampere, 92/13.2 kilovolt (kV) transformer bank to meet the Project's electrical demands. The substation would also include new 92 kV transmission line extensions, associated distribution feeders/backbones, and distribution line extensions.[8]

The construction of the Coachella Airport Business Park Development is planned to occur in multiple phases, spanning a significant period, and is anticipated to overlap with operational activities. The project is scheduled for three phases[9];

- Phase I construction is estimated to take approximately one to five years following Project approvals, with a projected start in Fall 2027.
- Phase II is anticipated to occur over approximately five to 10 years.
- Phase III is projected to occur over approximately 20 years.

5-2 Cont.

This phased approach indicates that the overall construction, from initial groundbreaking to the completion of all three phases, will extend well beyond 2035. For the purpose of air quality and greenhouse gas (GHG) emission analyses, the aggregate total construction time for all three phases was analyzed as 3.2 years, to represent a worst-case scenario.[10]

Based on a review of aerial photographs, South Coast AQMD staff found that the nearest sensitive receptor (e.g., residential development) is located 50 feet to the south of the project site, across Airport Blvd.

South Coast AQMD Comments

Use of EMFAC2021 Instead of EMFAC2025

According to the DEIR and Appendix B – Air Quality, Energy, Greenhouse Gas emissions and Health Risk Assessment Impact Analysis, the Lead Agency utilizes EMFAC 2021 emission factors as the methodology for the Proposed Project's analysis. According to CARB, the EMFAC 2025[11] was officially released in May 2025. Since the Proposed Project's DEIR was prepared in July 2025, South Coast AQMD staff recommends that the Lead Agency revise the emissions calculations utilizing the EMFAC 2025 emissions factors and include them in the Final EIR.

5-3

Outdated AERMET and Meteorological Data Used in AERMOD Modeling

Appendix B of the DEIR indicates that meteorological data processed by AERMET version 16216 (version 9) were used for the modeling. However, South Coast AQMD released a newer, approved

5-4

[7] *Ibid*
[8] *Ibid.*
[9] DEIR, page 2.0-8
[10] DEIR, page 4.3-16.
[11] CARB EMFAC 2021. Access at: https://arb.ca.gov/emfac

Comment Letter 5 (page 3 of 10)

version of AERMOD-ready MET data files (Version 11) in October 2023.[12] The updated dataset was developed using the U.S. EPA's AERMET processor Version 22112, along with pre-processors AERMINUTE Version 15272 and AERSURFACE Version 20060.[13] The U.S. EPA's current preferred and recommended meteorological data preprocessor for the AERMOD , as of the latest release, is AERMET version 24142, released in November 2024.[14]

Use of outdated meteorological data and model versions is inconsistent with the U.S. EPA's Guideline on Air Quality Models (40 CFR Part 51, Appendix W)[15] and may result in inaccurate or non-conservative health risk estimates. To ensure accuracy and consistency with federal modeling guidelines, the Lead Agency should re-run the dispersion modeling using the more recent meteorological data processed by the most recent U.S. EPA-recommended versions of AERMET (version 24142), revise the health risk results accordingly, and include the updated results in the Final EIR.

5-4 Cont.

Incorrect Pollutant Averaging Time

South Coast AQMD staff's review of the dispersion modeling files noted that the PM2.5 pollutant type and averaging time of 24-Hour and annual[16] keywords were selected for the pollutant averaging time in the control pathway in the AERMOD model. However, according to the South Coast AQMD Risk Assessment Procedures v9.0 and South Coast AQMD Modeling Guidance for AERMOD,[17] a detailed HRA utilizing AERMOD should be run using the "OTHER" type and pollutant averaging time 1-hour and PERIOD.

In addition, South Coast AQMD staff's review of the modeling files noted that industrial buildings were not included in the building downwash option in the AERMOD dispersion model during operation which resulted in an underestimation of the ground-level pollutant concentrations near the buildings.

5-5

Thus, the Lead Agency is recommended to: 1) re-run the construction and operational HRAs to utilize 1-hour and PERIOD averaging time to determine the health risk impacts to the sensitive receptors and off-site workers and include the industrial buildings in the building downwash to analyze more accurate ground-level concentrations; and 2) include the results in the Final EIR.

Health Risk Assessment (HRA) during Project Operation

CEQA Guidelines Sections 15126.2 and 15126.4 require a DEIR to include a description of the significant environmental effects of a Proposed Project, significant environmental effects which

5-6

[12] South Coast AQMD AERMOD-Ready MET Data Files available at https://www.aqmd.gov/assets/aermet/AERMET_files_And_HRA_Tool.html
[13] South Coast AQMD Data for AERMOD available at https://www.aqmd.gov/home/air-quality/meteorological-data/data-for-aermod
[14] U.S. EPA Air Quality Dispersion Modeling - Preferred and Recommended Models available at https://www.epa.gov/scram/meteorological-processors-and-accessory-programs
[15] Code of Federal Regulations Title 40, Part 51, Appendix W available at https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-51/appendix-Appendix%20W%20to%20Part%2051
[16] South Coast AQMD Risk Assessment Procedures v9.0. Access at: https://www.aqmd.gov/docs/default-source/permitting/hra-procedures/hraprocedures9-0_103124.pdf
[17] South Coast AQMD Modeling Guidance for AERMOD. Access at: South Coast AQMD Modeling Guidance for AERMOD

Comment Letter 5 (page 4 of 10)

cannot be avoided, significant irreversible environmental changes, growth-inducing impacts, and mitigation measures proposed to minimize the significant adverse impacts. An impact is considered significant under CEQA if it leads to a "substantial, or potentially substantial, adverse change in the environment." In addition to the air quality impacts from the criteria air pollutants and greenhouse gases, the adverse air quality health risk impacts associated with increased emissions of toxic air contaminants (TACs) from all sources (including but not limited to expected future permitted stationary and portable sources, mobile sources, and other emission sources) during the operation phases need to be appropriately evaluated using qualitative and/or quantitative approaches to justify whether there will be potentially substantial adverse impacts.

The Appendix B of the DEIR indicate that the operational risks from the proposed gas station was prepared using the South Coast AQMD's Risk Tool (V1.103). However, this tool is only applicable to CEQA permitting projects and is not applicable to Proposed Project.

5-6 Cont.

As mentioned earlier in this letter, the aerial maps indicate that the nearest sensitive receptor, a residential area, is located adjacent to or within 50 feet south of the Proposed Project site. As such, the Lead Agency is recommended to conduct an operational phase HRA, which should include evaluating truck emissions (including the truck routes to and from the site, truck loading/unloading docks, and their proximity to the sensitive receptors) and the impact of diesel-powered stationary and portable sources under the foreseeable probable future conditions. An HRA assessment is essential for determining the potential cancer risk impacts associated with the operation of the Proposed Project to the offsite sensitive receptors and workers so that they can be compared to the South Coast AQMD Air Quality Significance Thresholds for TACs[18] to determine whether there will be a potentially significant air quality impact. The analysis should also disclose the potential health risks for chronic and acute impacts of the Proposed Project's operation on residents living and/or workers working outside the Proposed Project's boundary in the Revised DEIR or Final EIR.

Hauling Mileage Information During Construction

The Proposed Project's construction activities include site preparation, grading, building construction, paving, and architectural coating.[19] Appendix B of the DEIR indicates that the Proposed Project would require approximately 21,040 cubic yards of soil import which would generate a total of 2,630 haul truck trips.[20] According to the DEIR, the Proposed Project site would be serviced by the Badlands Landfill and Burrtec landfill facilities which are located 69 miles and 31 miles from the project site, respectively.[21] However, the haul truck length trip in CalEEMod analysis shows 20 miles. Thus, the air quality analysis during construction is potentially underestimated in the DEIR. It is essential to include all the emission sources in the air quality analysis to determine the significance level during construction and propose all the feasible mitigation measures to reduce or minimize the impacts. In addition, the information and assumptions should be consistent throughout the CEQA document and its appendices. The Lead Agency is recommended to revise CalEEMod and the DEIR to update the haul truck distances to reflect the maximum potential haul trip distances to 69 miles.

5-7

[18] South Coast AQMD Air Quality Significance Thresholds available at: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf
[19] DEIR, Table 4.6-2, page 4.6-8.
[20] Appendix B – Air Quality, Energy, Greenhouse Gas emissions and Health Risk Assessment Impact Analysis, page 43.
[21] *Ibid.* CalEEMod, page 183.

Comment Letter 5 (page 5 of 10)

Use of South Coast AQMD's Mass Rate Localized Significance Threshold (LST) Look-Up Table to Analyze the Proposed Project's Localized Air Quality Impact appears Inconsistent with Guidance for the LST Methodology

The localized significance threshold (LST) analysis in the DEIR appears to incorrectly rely on the LST screening tables to determine the significance of localized air quality impacts. As indicated in Table 3-2 of the LST methodology,[22] these screening tables are not applicable for projects larger than five acres. Since the Proposed Project site size is 47.96 acres and is located in close proximity to sensitive receptors, including residential uses as noted earlier in this letter, reliance on the LST screening tables may underestimate localized air quality impacts. Therefore, it is recommended that the Lead Agency conduct project-specific dispersion modeling to accurately assess the localized air quality impacts from both construction and operational phases of the Proposed Project and compare the results to the Ambient Air Quality Standards for Criteria Pollutants on the South Coast AQMD Air Quality Significance Thresholds[23] and include the results in the Final EIR. 5-8

Potential Underestimation of Emissions Due to Imprecise Assumptions for Truck Trip Lengths and Trip Rates in Emissions Analysis

Appendix B of the DEIR explains that air quality impact analysis was based on the assumption that the average truck trip length is 20 miles. However, the project site is located approximately 150 miles away from the Ports of Los Angeles and Long Beach which means that the air quality analysis underestimated the emissions from trucks traveling from the Ports to the project site. For this reason, the Lead Agency is recommended to revise the Final EIR using project-specific assumptions for vehicle trip lengths and rates, including applying more conservative trip lengths such as designating specific mileage distance for local trips and 150 miles for Port-related trips. Tailoring these parameters and assumptions to be based on project-specific data will ensure a more accurate assessment of emissions, accounting for the unique circumstances and logistical realities of the Proposed Project. 5-9

Railroad Adjacent to The Project Site

Based on the review of an aerial photograph and the DEIR, the Proposed Project site is located adjacent to a railroad.[24] The DEIR should explain whether transportation by railroad will be utilized for this project. If so, locomotive emissions should be included in the air quality analysis and Health Risk Assessment (HRA) in the revised CEQA document. 5-10

AB 617 ECV CERP Alignment

The Proposed Project area includes the Assembly Bill 617 (AB 617) designated Eastern Coachella Valley (ECV) community and is heavily impacted by air pollution generated from sources such as the Salton Sea, pesticides, fugitive road dust, open burning and illegal dumping, diesel mobile 5-11

[22] South Coast AQMD Final Localized Significance Threshold Methodology available at: https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf

[23] South Coast AQMD Air Quality Significance Thresholds available at: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf

[24] DEIR, page 4.6-1.

Comment Letter 5 (page 6 of 10)

sources, Greenleaf Desert View Power Plant, and land use issues. As part of the AB 617 process, South Coast AQMD is required to work with a Community Steering Committee (CSC) to develop a Community Emission Reductions Plan (CERP) that identifies air quality priorities and related actions to address those air quality priorities and reduce air pollution in the community. The South Coast AQMD Governing Board adopted the ECV CERP on June 4, 2021. South Coast AQMD staff recommends that the Lead Agency review the actions to reduce air pollution in the ECV community included in Chapter 5 of the ECV CERP, which can be found here: https://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/eastern-coachella-valley/final-cerp/final-cerp-july-2021.pdf?sfvrsn=9#page=101. South Coast AQMD staff also recommends the Lead Agency continue working with South Coast AQMD to explore whether additional measures to further reduce emissions can be identified and implemented at the Proposed Project to support actions in the ECV CERP.

5-11 Cont.

Air Quality Mitigation Measures for NOx and PM Emissions from Construction

According to the CARB Strategies for Reducing Emissions from Off-Road Construction Equipment, the implementation of off-road Tier 5 starting in 2027 or 2028 and the Governor's Executive Order in September 2020 requires CARB to develop and propose a full transition to Zero Emissions (ZE) by 2035.[25] Considering the scope of the project, it is crucial to ensure that the levels of construction emissions, specifically NOx and PM_{10}, remain below significant thresholds during the construction period for each proposed individual project. Moving towards achieving this goal, where feasible, involves opting for electric emission-free engines instead of diesel-fueled engines for the construction equipment. This proactive choice not only aligns with environmental concerns but also demonstrates a commitment to minimizing the project's environmental footprints. The abatement of NOx can also be pursued by enforcing greener constructions, such as, limiting the usage of older engines in favor of adopting the latest available technologies, or even incorporating exhaust retrofits such as cutting-edge exhaust aftertreatment techniques. Additionally, several other resources to assist the Lead Agency with identifying additional potential mitigation measures for the Proposed Project are included in the South Coast AQMD's CEQA Air Quality Handbook[26] for both operational and construction emissions.

5-12

Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program

On May 7, 2021, South Coast AQMD's Governing Board adopted Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program, and Rule 316 – Fees for Rule 2305. Rules 2305 and 316 are new rules that will reduce regional and local emissions of nitrogen oxides (NOx) and particulate matter (PM), including diesel PM. These emission reductions will reduce public health impacts for communities located near warehouses from mobile sources that are associated with warehouse activities. Also, the emission reductions will help the region attain federal and state ambient air quality standards. Rule 2305 applies to owners and operators of warehouses greater than or equal to 100,000 square feet. Under Rule 2305, operators are subject to an annual WAIRE Points Compliance Obligation that is calculated based

5-13

[25] Presentation can be found at: https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/combined-construction-carb-amp-aqmp-presentations-01-27-21.pdf

[26] South Coast AQMD's CEQA Air Quality Handbook, Available at: https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook

Comment Letter 5 (page 7 of 10)

on the annual number of truck trips to the warehouse. WAIRE Points can be earned by implementing actions in a prescribed menu in Rule 2305, implementing a site-specific custom plan, or paying a mitigation fee. Warehouse owners are only required to submit limited information reports, but they can opt to earn Points on behalf of their tenants if they so choose because certain actions to reduce emissions may be better achieved at the warehouse development phase, for instance the installation of solar and charging infrastructure. Rule 316 is a companion fee rule for Rule 2305 to allow South Coast AQMD to recover costs associated with Rule 2305 compliance activities. Since the Proposed Project consists of the development of a total of 329,100 square feet warehouses, the Proposed Project's warehouse owners and operators will be required to comply with Rule 2305 once the warehouse is occupied. Therefore, South Coast AQMD staff recommends that the Lead Agency review South Coast AQMD Rule 2305 to determine the potential WAIRE Points Compliance Obligation for future operators and explore whether additional project requirements and CEQA mitigation measures can be identified and implemented at the Proposed Project that may help future warehouse operators meet their compliance obligation[27]. South Coast AQMD staff is available to answer questions concerning Rule 2305 implementation and compliance by phone or email at (909) 396-3140 or waire-program@aqmd.gov. For implementation guidance documents and compliance and reporting tools, please visit South Coast AQMD's WAIRE Program webpage.[28]

5-13 Cont.

Additional Recommended Air Quality and Greenhouse Gases Mitigation Measures and Project Design Considerations

CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize or eliminate any significant adverse air quality impacts. To further reduce the Proposed Project's air quality impacts, South Coast AQMD recommends incorporating the following mitigation measures and project design considerations into the Final EIR.

Mitigation Measures for Operational Air Quality Impacts

Mobile Sources

5-14

1. Require zero-emission (ZE) or near-zero emission (NZE) on-road haul trucks, such as heavy-duty trucks with natural gas engines that meet the CARB's adopted optional NOx emissions standard at 0.02 grams per brake horsepower-hour (g/bhp-hr), if and when feasible.

   Note: Given the state's clean truck rules and regulations aiming to accelerate the utilization and market penetration of ZE and NZE trucks, such as the Advanced Clean Trucks Rule and the Heavy-duty Low NOx Omnibus Regulation, ZE and NZE trucks will become increasingly more available to use.

2. Require a phase-in schedule to incentivize the use of cleaner operating trucks to reduce any significant adverse air quality impacts.

[27] South Coast AQMD Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program. Accessed at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xxiii/r2305.pdf.
[28] South Coast AQMD WAIRE Program. Accessed at: http://www.aqmd.gov/waire.

Comment Letter 5 (page 8 of 10)

Note: South Coast AQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency.

3. Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the Final EIR. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this higher activity level.

Other Area Sources

1. Maximize the use of solar energy by installing solar energy arrays.
2. Use light-colored paving and roofing materials.
3. Utilize only Energy Star heating, cooling, and lighting devices and appliances.

Design Considerations for Reducing Air Quality and Health Risk Impacts

1. Clearly mark truck routes with trailblazer signs so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, daycare centers, etc.).
2. Design the Proposed Project such that truck entrances and exits are not facing sensitive receptors and trucks will not travel past sensitive land uses to enter or leave the Proposed Project site.
3. Design the Proposed Project such that any truck check-in point is inside the Proposed Project site to ensure no trucks are queuing outside.
4. Design the Proposed Project to ensure that truck traffic inside the Proposed Project site is as far away as feasible from sensitive receptors.
5. Restrict overnight truck parking in sensitive land uses by providing overnight truck parking inside the Proposed Project site.

5-14 Cont.

Lastly, the South Coast AQMD also suggests that the Lead Agency conduct a review of the following references and incorporating additional mitigation measures as applicable to the Proposed Project in the Final EIR:

1. State of California – Department of Justice: Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act[29]
2. South Coast AQMD 2022 Air Quality Management Plan,[30] specifically:

[29] State of California – Department of Justice, Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act. Available at: https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf
[30] South Coast AQMD, 2022 Air Quality Management Plan (AQMP). Available at: http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan

Comment Letter 5 (page 9 of 10)

a) Appendix IV-A – South Coast AQMD's Stationary and Mobile Source Control Measures

b) Appendix IV-B – CARB's Strategy for South Coast

c) Appendix IV-C – SCAG's Regional Transportation Strategy and Control Measure

3. United States Environmental Protection Agency (U.S. EPA): Mobile Source Pollution - Environmental Justice and Transportation.[31]

5-14 Cont.

South Coast AQMD Air Permits and Role as a Responsible Agency

If implementation of the Proposed Project would require the use of new stationary and portable sources, including but not limited to emergency generators, fire water pumps, boilers, etc., air permits from South Coast AQMD will be required. The final CEQA document, should include a discussion about the potentially applicable rules that the Proposed Project needs to comply with. Those rules may include, for example, Rule 201 – Permit to Construct,[32] Rule 203 – Permit to Operate,[33] Rule 401 – Visible Emissions,[34] Rule 402 – Nuisance,[35] Rule 403 – Fugitive Dust,[36] Rule 1110.2 – Emissions from Gaseous and Liquid Fueled Engines,[37] Rule 1113 – Architectural Coating,[38] Regulation XIII – New Source Review,[39] Rule 1401 – New Source Review of Toxic Air Contaminants,[40] Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities,[41] Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants,[42] Rule 1470 – Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines,[43] etc. It is important to note that when air permits from South Coast AQMD are required, the role of South Coast AQMD would change from a Commenting Agency to a Responsible Agency under CEQA. In addition, if South Coast AQMD is identified as a Responsible Agency, per CEQA Guidelines Sections 15086, the Lead Agency is required to consult with South Coast AQMD.

5-15

CEQA Guidelines Section 15096 sets forth specific procedures for a Responsible Agency, including making a decision on the adequacy of the CEQA document for use as part of the process for conducting a review of the Proposed Project and issuing discretionary approvals. Moreover, it is important to note that if a Responsible Agency determines that a CEQA document is not adequate to rely upon for its discretionary approvals, the Responsible Agency must take further actions listed in CEQA Guideline Section 15096(e), which could have the effect of delaying the implementation of the Proposed Project. In its role as CEQA Responsible Agency, the South Coast

[31] United States Environmental Protection Agency (U.S. EPA), Mobile Source Pollution - Environmental Justice and Transportation. Available at: https://www.epa.gov/mobile-source-pollution.
[32] South Coast AQMD. Rule 201 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-ii/rule-201.pdf
[33] South Coast AQMD. Rule 203 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-ii/rule-203.pdf
[34] South Coast AQMD. Rule 401 available at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-401.pdf
[35] South Coast AQMD. Rule 402 available at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf
[36] South Coast AQMD. Rule 403 available at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403
[37] South Coast AQMD. Rule 1110.2 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1110_2.pdf
[38] South Coast AQMD. Rule 1113 available at https://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf
[39] South Coast AQMD. Regulation XIII available at: https://www.aqmd.gov/home/rules-compliance/rules/scaqmd-rule-book/regulation-xiii
[40] South Coast AQMD. Rule 1401 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1401.pdf
[41] South Coast AQMD. Rule 1403 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1403.pdf
[42] South Coast AQMD. Rule 1466 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1466.pdf
[43] South Coast AQMD. Rule 1470 available at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1470.pdf

Comment Letter 5 (page 10 of 10)

AQMD is obligated to ensure that the CEQA document prepared for this Proposed Project contains a sufficient project description and analysis to be relied upon in order to issue any discretionary approvals that may be needed for air permits.

For these reasons, the final CEQA document should be revised to include a discussion about any and all new stationary and portable equipment requiring South Coast AQMD air permits, provide the evaluation of their air quality and greenhouse gas impacts, and identify South Coast AQMD as a Responsible Agency for the Proposed Project as this information will be relied upon as the basis for the permit conditions and emission limits for the air permit(s). Please contact South Coast AQMD's Engineering and Permitting staff at (909) 396-3385 for questions regarding what types of equipment would require air permits. For more general information on permits, please visit South Coast AQMD's webpage at https://www.aqmd.gov/home/permits. 5-15 Cont.

Conclusion

As set forth in California Public Resources Code Section 21092.5(a) and CEQA Guidelines Section 15088(a-b), the Lead Agency shall evaluate comments from public agencies on the environmental issues and prepare a written response at least 10 days prior to certifying the Final EIR. As such, please provide South Coast AQMD written responses to all comments contained herein at least 10 days prior to the certification of the Final EIR. In addition, as provided by CEQA Guidelines Section 15088(c), if the Lead Agency's position is at variance with recommendations provided in this comment letter, detailed reasons supported by substantial evidence in the record to explain why specific comments and suggestions are not accepted must be provided. 5-16

Thank you for the opportunity to provide comments. South Coast AQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact Jivar Afshar, Air Quality Specialist, at jafshar@aqmd.gov should you have any questions.

Sincerely,

Sam Wang

Sam Wang
Program Supervisor, CEQA IGR
Planning, Rule Development & Implementation

SW:JA

RVC250722-01
Control Number

Response to Comment Letter 5

Sam Wang, Program Supervisor, CEQA IGR
Planning, Rule Development & Implementation
South Coast Air Quality Management District
September 3, 2025

5-1 This comment provides a general introduction. Responses to specific comments are provided below.

5-2 This comment includes a general summary of the proposed Project and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

5-3 This comment relates to the use of EMFAC2021 instead of EMFAC2025 in the Project's air quality analysis. The commenter recommends that the emissions calculations for the air quality analysis in the DEIR be revised utilizing the EMFAC 2025 emissions factors rather than the current EMFAC2021, since the Proposed Project's DEIR was prepared in July 2025. As noted in Attachment B2 of this Final EIR, the EMFAC2025 model has not yet been approved by the USEPA. Approval of the EMFAC 2025 model by the USEPA is required before a new EMFAC version can be used. As such, no changes in regard to this comment have been made to the modeling, as the most current approved EMFAC model has been utilized in the DEIR.

5-4 This comment relates to the use of outdated AERMET, and meteorological data used in the AERMOD modeling in the Project's air quality analysis. The commenter notes that Appendix B1 of the DEIR indicates that meteorological data processed by AERMET version 16216 (version 9) were used for the modeling. However, SCAQMD released a newer, approved version of AERMOD-ready MET data files (Version 11) in October 2023. The commenter further states that the use of outdated meteorological data and model versions is inconsistent with the U.S. EPA's Guideline on Air Quality Models (40 CFR Part 51, Appendix W) and may result in inaccurate or non-conservative health risk estimates. To ensure accuracy and consistency with federal modeling guidelines, the commenter requests that the air quality modeling be re-run using the more recent meteorological data processed by the most recent USEPA-recommended versions of AERMET (version 24142), revise the health risk results accordingly, and include the updated results in the Final EIR.

As discussed in the Attachment B2 of this FEIR, the AERMOD model runs were re-run with the following changes: 1) the most current versions of AERMOD, AERMET, AERMINUTE and AERSURFACE were utilized; 2) the averaging times of 1 hour and Period were selected; 3) the most current meteorological data for Jacqueline Cochran Regional Airport was utilized; and 4) for the operational model runs, the proposed buildings' heights were entered into AERMOD and pre-processed with BPIP. The revised AERMOD model run results and associated cancer risks are provided for informational purposes in Attachment B2 of this Final EIR.

As shown in Attachment B2, the cancer risk from the proposed Project's DPM emissions would be as high as 1.6 per million persons at the mobile homes located south of the Project site

(Sensitive Receptors 2 and 3). When combined with the gas station TAC emissions, this would result in a cancer risk as high as 3.0 per million persons at the mobile homes located south of the Project site. The combined Project-related cancer risk from DPM and gas station TAC emissions would remain well below the SCAQMD's threshold of 10 per million persons based on the updated analysis. Therefore, operation of the proposed Project would result in a less than significant impact due to the cancer risk from TAC emissions. This change has been made to page 4.3-28 of the DEIR (Table 4.3-9, *Project-Related Diesel Particulate Matter (DPM) Cancer Risks at Nearby Sensitive Receptors*) and is reflected in Section 3.0, Errata, of the Final EIR. As shown in the Table, all of the cancer risk impacts calculated with the current information are lower than those originally included in the DEIR. Therefore, the DEIR identified a more conservative cancer risk assessment, and these recalculations do not warrant recirculation of the DEIR.

5-5 This comment remarked on pollutant averaging time utilized in the Project's air quality analysis. The commenter's review of the dispersion modeling files noted that the $PM_{2.5}$ pollutant type and averaging time of 24-Hour and annual keywords were selected for the pollutant averaging time in the control pathway in the AERMOD model, however, a detailed HRA utilizing AERMOD should be run using the "OTHER" type and pollutant averaging time 1-hour and PERIOD. In addition, the commenter's review of the modeling files noted that industrial buildings were not included in the building downwash option in the AERMOD dispersion model during operation which resulted in an underestimation of the ground-level pollutant concentrations near the buildings. As such, the commenter recommends that the Project's air quality analysis and DEIR be revised accordingly.

Refer to Response 5-4, above. The 1-hour and Period averaging times and the building downwash were analyzed in the revised AERMOD model runs, provided in Attachment B2 of this FEIR, which did not change the analysis or conclusions set forth in the DEIR and does not constitute significant new information requiring recirculation of the DEIR.

5-6 This comment relates to the HRA analysis for Project operation in the Project's air quality analysis. The commenter notes that the Project's air quality analysis indicates that the operational risks from the proposed gas station were prepared using the SCAQMD's Risk Tool (V1.103). However, this tool is only applicable to CEQA permitting projects and is not applicable to Proposed Project. As such, the commenter recommends that the Project's air quality analysis and DEIR be revised to conduct an operational phase HRA, which should include evaluating truck emissions (including the truck routes to and from the site, truck loading/unloading docks, and their proximity to the sensitive receptors) and the impact of diesel-powered stationary and portable sources under the foreseeable probable future conditions. The commenter adds that the air quality analysis and DEIR should also disclose the potential health risks for chronic and acute impacts of the Proposed Project's operation on residents living and/or workers working outside the Proposed Project's boundary.

As discussed in Attachment B2 of this FEIR, the cancer and non-cancer risks from diesel emissions created from construction and operation of the proposed Project were analyzed using AERMOD. Specifically, Section 8.3 of Appendix B1 of the DEIR describes the modeling inputs and Section 10.4 of Appendix B1 of the DEIR shows the modeling results. The RiskTool

has been utilized in hundreds of CEQA documents and is a published analysis method that is utilized for gas stations and other site-specific sources. Section 10.4 of Appendix B1 of the DEIR utilized a very conservative method of adding the cancer risk calculated by AERMOD to the cancer risk calculated by the RiskTool, in order to provide the total cancer risk from the proposed Project at the nearby sensitive receptors. Pages 4.3-26 to 4.3-29 of the DEIR summarize these calculations and clearly show the results of the analysis. As such, no changes in regard to this comment have been made to the DEIR.

5-7 This comment relates to the hauling mileage information during construction in the Project's air quality analysis. The commenter states that, according to the DEIR, the Proposed Project site would be serviced by the Badlands Landfill and Burrtec landfill facilities which are located 69 miles and 31 miles from the Project site, respectively. However, the haul truck length trip in CalEEMod analysis shows 20 miles. Thus, the air quality analysis during construction is potentially underestimated in the DEIR.

As discussed in Attachment B2 of this FEIR, the import of 21,040 cubic yards of dirt to the Project site during the grading phase was analyzed in CalEEMod. Landfills are not a source of fill dirt for construction projects in the Coachella Valley. It should be noted that there are typically several construction projects with excess dirt and only a few projects that need dirt, so it can be reasonably assumed that the imported dirt will come from a nearby project that is located closer than 20 miles away. As such, the 20-mile assumption for trip length in CalEEMod is considered conservative. Accordingly, no changes in regard to this comment have been made to the DEIR.

5-8 The commenter asserts that the localized significance threshold (LST) analysis in the Project's air quality analysis appears to incorrectly rely on the LST screening tables to determine the significance of localized air quality impacts. As indicated in Table 3-2 of the LST methodology, these screening tables are not applicable for projects larger than five acres. Since the Proposed Project site size is 47.96 acres reliance on the LST screening tables may underestimate localized air quality impacts. Therefore, the commenter recommends that the Project's air quality analysis and DEIR be revised to conduct project-specific dispersion modeling and compare the results to the Ambient Air Quality Standards for Criteria Pollutants on the SCAQMD Air Quality Significance Thresholds.

As discussed in Attachment B2 of this FEIR, the SCAQMD provides a Fact Sheet for Applying CalEEMod to Localized Significance Threshold that details how to analyze the projects that are greater than 5 acres in size by using calculations based on the active construction equipment. The Draft EIR utilized the methodology provided in the Fact Sheet to analyze the localized air impacts from construction and operation of the proposed Project.

However, in order to expand on localized air impacts during construction and operations, the AERMOD PM2.5 DPM construction run that is detailed in Section 8.3 Appendix B1 of the DEIR, and summarized in Table 4.3-10, *Project-Related Diesel Particulate Matter (DPM) Cancer Risks at Nearby Sensitive Receptors,* of the DEIR, was re-run based on the site preparation phase of construction, and is provided in Attachment B2 of this FEIR. The off-road equipment source was set to match the 4.17 pounds per day of PM2.5 emissions as calculated from CalEEMod.

The AERMOD model run files are provided in Attachment B2 of this Final EIR, which found that site preparation activities would create PM2.5 concentrations as high as 0.192 µg/m3, which is well below SCAQMD's PM2.5 construction threshold of 10.4 µg/m3.

For operations, the AERMOD model was based on the year 2028 PM2.5 emissions rates from the EMFAC2021 model output files provided in Appendix B of the Air Report and included emissions from exhaust (RUNEX), brake wear (PMBW) and tire wear (PMTW). The AERMOD model run files are provided in Attachment B2 of this FEIR, which found that operational activities would create PM2.5 concentrations as high as 0.024 µg/m^3, which is well below SCAQMD's PM2.5 operational threshold of 2.5 µg/m^3.

This information expands upon the information provided in the DEIR but does not represent a change in the analysis or the level of impact significance as discussed in the DEIR. As such, no changes in regard to this comment have been made to the DEIR.

5-9 This comment relates to a potential underestimation of emissions in the Project's air quality analysis due to assumptions for truck trip lengths and trip rates in the emissions analysis. The commenter notes that the Project's air quality analysis explains that the analysis was based on the assumption that the average truck trip length is 20 miles. However, the Project site is located approximately 150 miles away from the Ports of Los Angeles and Long Beach which means that the air quality analysis underestimated the emissions from trucks traveling from the Ports to the Project site. As such, the commenter recommends that the Project's air quality analysis and DEIR be revised using project-specific assumptions for vehicle trip lengths and rates, including applying more conservative trip lengths such as designating specific mileage distance for local trips and 150 miles for Port-related trips.

As discussed in the Attachment B2 of this FEIR, the distance utilized the default trip distances that ranged between 4.79 and 9.65 miles in the CalEEMod model. The trip distances in the CalEEMod model vary for each region of the State and are based on empirical evidence provided in the CalEEMod User Guide and the use of the default trip distances in CalEEMod meets the CEQA requirement of providing substantial evidence of the analysis. The largest proposed warehouse under the Project would be 48,800 square feet, which would be considered a small warehouse in Southern California, and no warehouses would be designed to be high-cube warehouses, which are the warehouses specifically designed to receive cargo containers. For these reasons, truck trips directly from the Ports to the Project site are not anticipated and the default truck trip distances in the CalEEMod provide a reasonable estimate of the truck trip distances that would occur during operation of the proposed Project. As such, no changes in regard to this comment have been made to the DEIR.

5-10 The commenter notes that, based on the review of an aerial photograph and the DEIR, the Proposed Project site is located adjacent to a railroad. The Project's air quality analysis and DEIR should explain whether transportation by railroad will be utilized for this Project.

No railroad connections or loading areas will be provided on the Project site as part of the proposed Project. This is further discussed in Attachment B2 of this FEIR. As such, no changes in regard to this comment have been made to the DEIR.

5-11 The commenter notes that the Proposed Project area includes the AB 617 designated Eastern Coachella Valley ("ECV") community that is heavily impacted by air pollution. As part of the AB 617 process, SCAQMD is required to work with a Community Steering Committee ("CSC") to develop a Community Emission Reductions Plan ("CERP") that identifies air quality priorities and related actions to address those air quality priorities and reduce air pollution in the community. The commenter recommends that the Lead Agency review the actions to reduce air pollution in the ECV community included in Chapter 5 of the ECV CERP. SCAQMD staff also recommends the Lead Agency continue working with SCAQMD to explore whether additional measures to further reduce emissions can be identified and implemented at the Proposed Project to support actions in the ECV CERP.

As part of the environmental analysis in the DEIR, air quality impacts associated with construction and operation of the proposed project were evaluated in accordance with the CEQA Guidelines, South Coast AQMD significance thresholds, and applicable regulatory requirements. The CERP for the ECV community, adopted by the South Coast AQMD Governing Board on June 4, 2021, was reviewed for consistency with the proposed project. Construction and operation of the proposed Project would comply with all applicable AB 617 requirements for the Eastern Coachella Valley community, as well as all applicable South Coast AQMD rules and regulations (Refer to DEIR page 4.3-11). The proposed project incorporates mitigation measures (Mitigation Measure GHG-1) designed to minimize emissions of criteria pollutants and toxic air contaminants during construction and operation, as described on pages 4.3-23 of the DEIR. These measures are consistent with the air quality improvement strategies identified in the ECV CERP and would not conflict with or impede implementation of the CERP.

As demonstrated in the Project's air quality analysis and Section 4.3, Air Quality, of the DEIR, the proposed project's emissions would not result in significant air quality impacts after implementation of required mitigation measures and would not contribute substantially to existing air quality burdens within the ECV community. Coordination with South Coast AQMD would continue, as required, to ensure compliance with applicable air quality regulations. This comment does not identify new information that would alter the conclusions of the air quality analysis, and no additional mitigation measures are required.

5-12 The commenter recommends that additional air quality mitigation measures for NOx and PM emissions from Project construction be included in the Project's air quality analysis and DEIR. Specifically, the commenter notes that, according to the CARB Strategies for Reducing Emissions from Off-Road Construction Equipment, the implementation of off-road Tier 5 starting in 2027 or 2028 and the Governor's EO in September 2020 requires CARB to develop and propose a full transition to Zero Emissions ("ZE") by 2035. Further, the commenter adds that several other resources to assist the Lead Agency with identifying additional potential mitigation measures for the Proposed Project are included in the SCAQMD's CEQA Air Quality Handbook for both operational and construction emissions.

As shown in DEIR Table 4.3-5, the Project will not exceed SCAQMD thresholds for NOx and PM emissions during construction. The Project therefore complies with SCAQMD thresholds

under CEQA. The Project Applicant has committed to implementing Mitigation Measure GHG-1 (DEIR page 4.3-22 and 4.3-23) that restricts the use of diesel-powered off-road equipment during operation of the proposed Project and requires temporary power poles to be installed during construction of the proposed Project that will allow for the charging of the ZE vehicles. As such, no changes in regard to this comment have been made to the DEIR.

5-13 This comment relates to Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions ("WAIRE") Program. The commenter notes that, since the Proposed Project consists of the development of a total of 329,100 square feet of warehouses, the Proposed Project's warehouse owners and operators will be required to comply with Rule 2305 once the warehouse is occupied. Therefore, the commenter recommends that the Project's air quality analysis and DEIR review SCAQMD Rule 2305 to determine the potential WAIRE Points Compliance Obligation for future operators and explore whether additional project requirements and CEQA mitigation measures can be identified and implemented at the proposed Project that may help future warehouse operators meet their compliance obligation.

As described in Section 4.3, Air Quality, of the DEIR, the Project will be required to comply with all applicable SCAQMD rules and regulations. As allowed under CEQA, compliance with standard requirements and responsible agency regulations is sufficient to reduce impacts, and is not required as mitigation for projects. However, it should be noted that the largest warehouse space on the proposed plans is 48,800 square feet. Therefore, unless a tenant were to take leases on multiple warehouse spaces, this Rule will likely not apply to the proposed Project. As such, no changes in regard to this comment have been made to the DEIR.

5-14 The commenter recommends incorporating several air quality mitigation measures and project design considerations into the Final EIR. The commenter further suggests that the Lead Agency conduct a review of a number of publications from SCAQMD, the State of California, and the United States Environmental Protection Agency.

As discussed in Attachment B2 of this FEIR, and as shown in the DEIR, Tables 4.3-5 and 4.3-6, the proposed Project has provided adequate mitigation to reduce all air quality-related impacts to less than significant levels. It should be noted that most of the commenter's proposed mitigation has already or will likely become State Regulations that the Project Applicant will be required to implement. As such, no changes in regard to this comment have been made to the DEIR.

5-15 This comment relates to SCAQMD air permits and role as a Responsible Agency. The commenter recommends that the Project's air quality analysis and DEIR should be revised to include a discussion about any and all new stationary and portable equipment requiring SCAQMD air permits (including but not limited to emergency generators, fire water pumps, boilers, etc.), provide the evaluation of their air quality and greenhouse gas impacts, and identify SCAQMD as a Responsible Agency for the Proposed Project as this information will be relied upon as the basis for the permit conditions and emission limits for the air permit(s).

As discussed in the Attachment B2 of this FEIR, all of the regulations noted by the commenter have all been discussed in Section 4.3, *Air Quality,* of the DEIR, as part of the SCAQMD subsection of Section 4.3.2, Regulatory Framework. In addition, DEIR Section 4.3.4, Impact Analysis (under "Methodology"), includes a discussion regarding the CalEEMod assumptions used for modeling, based on the CalEEMod default equipment mix using the building types, sizes and uses proposed for the Project. As such, no changes in regard to this comment have been made to the DEIR.

5-16 The commenter concludes by iterating the DEIR comment and response processes set forth in California Public Resources Code Section 21092.5(a) and CEQA Guidelines Section 15088(a-b). This comment is noted.

Comment Letter 6 (page 1 of 5)

Comment Letter No. 6

Monday, July 21, 2025 at 1:29:45 PM Pacific Daylight Time

Subject: Re: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park
Date: Monday, July 21, 2025 at 12:54:48 PM Pacific Daylight Time
From: GW Res <grestmtm@gmail.com>
To: Terra Nova Planning & Research <admin@terranovaplanning.com>
CC: kreif@coachella.org <kreif@coachella.org>, Nicole Criste <ncriste@terranovaplanning.com>, Torres-Matinez Cultural Committee <cultural-committee@torresmartinez-nsn.gov>, Mary Belardo <belardom@gmail.com>, Richie_Lopez <renegades55r@gmail.com>, Sara Morreo <smorreo9@gmail.com>, maria bermudez <elkaseis1@gmail.com>, Alesia Reed <lisareed990@gmail.com>, thomas tortez <ttortez@yahoo.com>
Attachments: image001[98].png, image001[98].png

Good afternoon

I am responding on behalf of The Torres Martinez Cultural Committee regarding our Tribes concerns for the Coachella Airport Business Park

6-1

Our Tribes has 3 areas of concerns for this project area

•Tribes Prehistoric settlement pattern

Our Tribes Prehistoric settlement pattern begins around Airport Boulevard/ 86 HWY. This is a continuous settlement pattern running south starting with Prehistoric village La Mesa site, then Roadrunner house , Martinez , Alamo , Auga Dulce and Túva with a many smaller extended village sites that runs throught the communities of Thermal ,Mecca and Oasis

6-2

•A main Indian trail
Running from the main village sites La Mesa to Túva with smaller branches of the trail breaking off and connecting other village sites runs throught the communities of Thermal, Mecca and Oasis

•Desert Cahuilla Cultural landuse area
There are several main village sites located in this Desert with each village site having its own landuse area that can be speard out over several square miles. With these village site being so close together there over many lapping areas depending on there relationships.

1 of 5

Comment Letter 6 (page 2 of 5)

This project area is located right between the Village sites of

West
Temal Wakhish (earth dry- La Mesa) Témalwáxiš – name of La Mesa near Augustine Reservation
Ekwawinet/ Kelewutkwīkwinut (wood hanging down)
East
Awelpitcava (dog lying by the trail)
Wála•tún•e/Wál•tún – To Spread Out Roots To Bear Fruit. Original village name for Present-day Mecca.

6-2 Cont.

NORTH
Palaiyil (Water turtle)
Pál•sétax^{w}et – Salt Water. Original village name of present-day Cabazon Reservation

South
Pūichekiva (Roadrunner house)

our Tribes concerns is as followed:

Our Tribes concern regarding the project area of impact would be the subsurface content.

Understanding this area is heavy disturbed due to a date Palm Grove, our Tribes has found deep intacted Archaeologcal features related to our Tribes Mortuary practicing underneath these deep plow zone before

So the question is:

Is there any subsurface Cultural content underneath the disturbed soil (intacted Cultural/Archaeologcal features) ?

Therefore based off the location our this project our Tribe's recommendation is for Phase 1 extension (Phase 2 Testing) to assist in determining if any Cultural content remains underneath the un@disturbed soil and to assist in proper mitigation of impacts to any potential Tribal Cultural Resources. (intacted Cultural/Archaeologcal features)

6-3

If this project is going to require ground disturbance during construction our Tribes requires Phase 3 data recovery Plan (Monitoring plan/ Tribal Monitoring) this is a plan on

2 of 5

Comment Letter 6 (page 3 of 5)

how to address any finding during construction.

Over the years we have learned it's more efficient when it comes to a project that requires ground disturbance (Monitoring) it is easier to have a plan in place before finding rather than trying to develop a plan after any finding this will minimizes any long term stoppage

6-3 Cont.

We appreciate your time and effort in helping us protect our Tribes Traditional Cultural Resource

Any questions comments or concerns please feel free to contact us

6-4

We appreciate your time and effort in helping us protect our Tribes Traditional Cultural Resource

Any questions comments or concerns please feel free to contact us.

Respectfully
Gary Wayne Resvaloso Jr
Torres Martinez Desert Cahuilla Indians MLD
70-555 Pierce St
Thermal Ca, 92274
(442) 256-2964
grestmtm@gmail.com

Our lives begin to end the day we become silent about things that matter.
Martin Luther King Jr.

On Mon, Jul 21, 2025, 8:00 AM Terra Nova Planning & Research <admin@terranovaplanning.com> wrote:

> On behalf of the City of Coachella, attached please find the Notice of Availability for the above referenced project for your review.
>
> **Document Availability:** Copies of project documents, the Draft Environmental Impact Report, and appendices are available at the City of Coachella Development Services, Planning Division, 53990 Enterprise Way, Coachella, CA 92236, and on the City's website https://www.coachella.org/departments/development-services/environmental-reviews.
>
> The City of Coachella is currently open Monday through Thursday between 7:00 a.m. and 6:00 p.m. and closed every Friday. Additionally, the Draft EIR and Technical Appendices will be

3

Comment Letter 6 (page 4 of 5)

provided to the following library for public review:

Coachella Library, 1500 Sixth Street, Coachella, CA 92236

Hours: Sunday: Closed. Monday: Closed. Tuesday: 10:00 am-6:00 pm.

Wednesday: 11:00 am-7:00 pm. Thursday: 11:00 am-7:00 pm. Friday: 10:00 am-6:00 pm. Saturday: 10:00 am-6:00 pm.

Public Review Period: As mandated by State law, the minimum public review period for this document is 45 days. The Draft EIR is available for public review and comment beginning on July 21, 2025, and ending September 3, 2025. All comments on the Draft EIR must be submitted in writing to the email address or physical address provided below and received no later than 6:00 PM September 3, 2025.

All comments should be emailed to Kendra Reif, Community Development Director at Kreif@coachella.org , or mailed to:

City of Coachella Development Services, Planning Division

Attn: Kendra Reif, Community Development Director

53990 Enterprise Way, Coachella, CA 92236

Public Hearings: Notification of the date, timing, and place of future public hearings will be provided in compliance with City and California Environmental Quality Act (CEQA) requirements.

Kindest Regards,

TERRA NOVA PLANNING & RESEARCH, INC.®

42635 Melanie Place, Ste 101

Palm Desert, CA 92211

Phone: (760) 341-4800

4 of 5

Comment Letter 6 (page 5 of 5)

Fax: 760-341-4455

www.terranovaplanning.com

5 of 5

Response to Comment Letter 6

Gary Wayne Resvaloso Jr.
Torres Martinez Desert Cahuilla Indians
July 21, 2025

6-1 This comment provides a general introduction. Responses to specific comments are provided below.

6-2 The commenter describes the three identified areas of Tribal concern in relation to the Project site. The commenter further states that the Tribe has previously discovered deep intact archaeological features related to the Tribe's mortuary practices underneath these deep plow zones.

A general acknowledgment of the three areas of concern (village sites) described by the commenter is provided in DEIR Section 4.18, *Tribal Cultural Resources*, and the *Cultural Resource Investigation* that was prepared for the Project. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis under CEQA. Therefore, no further response is warranted.

6-3 The commenter reiterates the concern regarding potential subsurface cultural content and requests that Phase 1 extension (Phase 2 Testing) be conducted. The commenter further states that the Tribe requires the preparation of a Phase 3 Data Recovery Plan (Monitoring Plan/Tribal Monitoring).

For context, it should be noted that the initial tribal outreach letters were sent to 12 recommended tribal groups based on a list provided by the Native American Heritage Commission (NAHC) on April 3, 2020, which included the Torrez Martinez Desert Cahuilla Indians. A follow-up phone call was also placed to the Tribe on April 30, 2020. Five responses were received from the list of tribal groups from the NAHC in 2020. The Quechan Tribe of the Fort Yuma Reservation and Santa Rosa Band of Cahuilla Indians stated the tribes do not have any comments for the Project. The Agua Caliente Band of Cahuilla Indians stated that the Project area is within their Traditional Use Area and made some requests for information as well as monitoring during ground disturbance. The Soboba Band of Luiseno Indians deferred to the Torres Martinez Desert Cahuilla Indians. The Torres Martinez Desert Cahuilla Indians responded on April 28, 2020, and indicated that the area is sensitive for cultural resources and, as such, they stated they would provide information regarding the sensitivity of the area during the official AB 52 consultation process. Tribal consultation with the Torres Martinez Desert Cahuilla Indians was conducted from April 12, 2022, through July 12th, 2022. The Torres Martinez Desert Cahuilla Indians did not respond. In response to the commenter's email of July 21, 2025, the City indicated that consultation had been completed, but the City provided the commenter a copy of the *Cultural Resource Investigation* (Appendix D1 of the DEIR) and indicated that City staff was available if the commenter wished to have further discussions. No response was received.

A *Cultural Resources Memorandum in support of the Final EIR Coachella Airport Business Park Project, Riverside, California* (Cultural Resources Responses to Comments Technical Memorandum), was prepared by Chronicle Heritage dated October 2, 2025 (provided as Attachment D2 of this FEIR). It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies. As noted in Attachment D2 of this FEIR, the previously-conducted 2023 records search, intensive Phase 1 survey, and consultation of the 2021 Archaeological Sensitivity Model all found no documented or visible surface cultural resources in the Project area. The sensitivity model concluded that the potential for surface resources remains low. Additionally, the intensive archaeological survey noted the Project area is relatively disturbed and is located within an active alluvial plain. Therefore, the likelihood of identifying archaeological resources in original context is considered low. As such, further cultural resource management, including Phase 2 testing, is not warranted for the Project, as surficial resource potential has been thoroughly evaluated. In addition, MM CUL-1 already provides for the establishment of all necessary protocols and procedures for the treatment of resources prior to the initiation of earth moving activities. As such, a formal Tribal Cultural Resources Monitoring Plan is not recommended.

The DEIR correctly identified the potential presence of buried resources. In order to assure that impacts to these resources would be less than significant, the DEIR includes MM CUL-1, which requires a qualified archaeologist and Tribal monitor(s) to be present during any ground disturbing activities during the Project construction phase and requires that all work shall be halted in the vicinity in the event of a discovery during the Project's ground disturbing activities in the construction phase. However, to clarify, the language pertaining to tribal monitoring during Project construction in MM CUL-1 has been slightly revised to include a reference specifically to the Torres Martinez Desert Cahuilla Indians, as well as the ABCBI per Comment Letter 7, below. This change has been made to both Section 4.5, Cultural Resources, pages 4.5-9 and 4.5-10, and Section 4.18, Tribal Cultural Resources, page 4.18-7, of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR. It should be noted that this revision does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

6-4 The commenter concludes by providing a contact name for any questions associated with the above comments. Comment noted.

Comment Letter 7 (1 of 3)

Comment Letter No. 7

Wednesday, July 23, 2025 at 1:56:16 PM Pacific Daylight Time

Subject: RE: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park
Date: Wednesday, July 23, 2025 at 1:51:44 PM Pacific Daylight Time
From: THPO Consulting <ACBCI-THPO@aguacaliente.net>
To: Terra Nova Planning & Research <admin@terranovaplanning.com>
CC: kreif@coachella.org <kreif@coachella.org>, Nicole Criste <ncriste@terranovaplanning.com>
Attachments: image001.png, image002.png, DEIR THPO comments.pdf

Hello, Kendra,

Attached is my comment on the DEIR. 7-1

Thank you,

Xitlaly Madrigal
Cultural Resources Analyst
xmadrigal@aguacaliente.net
(760) 423-3485
5401 Dinah Shore Drive, Palm Springs, CA 92264

From: Terra Nova Planning & Research <admin@terranovaplanning.com>
Sent: Monday, July 21, 2025 8:00 AM
Cc: kreif@coachella.org; Nicole Criste <ncriste@terranovaplanning.com>
Subject: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park

This email was sent by a person from outside your organization. Please verify the authenticity of this email before taking further action.

On behalf of the City of Coachella, attached please find the Notice of Availability for the above referenced project for your review.

Document Availability: Copies of project documents, the Draft Environmental Impact Report, and appendices are available at the City of Coachella Development Services, Planning Division, 53990 Enterprise Way, Coachella, CA 92236, and on the City's website https://www.coachella.org/departments/development-services/environmental-reviews.

The City of Coachella is currently open Monday through Thursday between 7:00 a.m. and 6:00 p.m. and closed every Friday. Additionally, the Draft EIR and Technical Appendices will be provided to the following library for public review:

Coachella Library, 1500 Sixth Street, Coachella, CA 92236
Hours: Sunday: Closed. Monday: Closed. Tuesday: 10:00 am-6:00 pm.

1 of 2

Comment Letter 7 (2 of 3)

Wednesday: 11:00 am-7:00 pm. Thursday: 11:00 am-7:00 pm. Friday: 10:00 am-6:00 pm. Saturday: 10:00 am-6:00 pm.

Public Review Period: As mandated by State law, the minimum public review period for this document is 45 days. The Draft EIR is available for public review and comment beginning on July 21, 2025, and ending September 3, 2025. All comments on the Draft EIR must be submitted in writing to the email address or physical address provided below and received no later than 6:00 PM September 3, 2025.

All comments should be emailed to Kendra Reif, Community Development Director at Kreif@coachella.org , or mailed to:

City of Coachella Development Services, Planning Division
Attn: Kendra Reif, Community Development Director
53990 Enterprise Way, Coachella, CA 92236

Public Hearings: Notification of the date, timing, and place of future public hearings will be provided in compliance with City and California Environmental Quality Act (CEQA) requirements.

Kindest Regards,

TERRA NOVA PLANNING & RESEARCH, INC.®
42635 Melanie Place, Ste 101
Palm Desert, CA 92211
Phone: (760) 341-4800
Fax: 760-341-4455
https://protect.checkpoint.com/v2/r01/___www.terranovaplanning.com___YzJ1OmEncWFjYWxpZW5oZWdvdnO6YzpvOmIxMWRmZTM2NzU3MTEiNDIwYjZhODA1YmRhMjZjNWOyOjc6YmI2ZjoxMjg5YTMwNmRiOTI5YjdjMzNiZmNlNWZjNzgxYTkyZWFkZjA3YzNhODExYjA2ODk2ZjM2MWU2ODNiN2U3MWI3OnO6VDpG

Comment Letter 7 (3 of 3)

historic resources to be preserved during renovations and remodels of historic resources on and around a site. With adherence to General Plan policies and implementation of Mitigation Measure CUL-1, the proposed Project would have less than significant impacts on archaeological resources.

Mitigation Measures

CUL-1 A qualified archaeologist and [illegible] during any ground disturbing activities during the Project c[illegible] hat archaeological materials are encountered during ground d[illegible] be halted in the vicinity of the discovery until a qualified arch[illegible] overy and assess the significance of the archaeological resource[illegible] Tribal monitor shall establish all necessary protocols and proce[illegible]es prior to the initiation of earth moving activities. 7-1 Cont.

Xitlaly Madrigal
Can you please alter the language here to specify an ACBCI Tribal Monitor?
Reply

Impact 4.5.3 Implementation of the proposed Project would not disturb any human remains, including those interred outside of dedicated cemeteries (Less than Significant Impact with Mitigation Incorporated)

The proposed Project site does not contain any cemeteries and no human remains were found on the site during the pedestrian surveys conducted on March 30, 2020, and again on December 7, 2023. It is not anticipated that proposed Project operations would unearth any human remains at the site. However, there is always the possibility that human remains could be uncovered during ground disturbing activities.

Through the implementation of Mitigation Measure CUL-2, all pre-construction and construction work taking place within the vicinity of the discovered remains must cease and the necessary steps to ensure the integrity of the immediate area must be taken. The State of California Health and Safety Code 7050.5 and the California Public Resources Code (PRC) Section 5097.98 both require that the County Coroner must be notified within 24 hours of the discovered human remains. If the remains discovered are determined by the Coroner to be of Native American descent, the Coroner is required to contact the Native American Heritage Commission (NAHC) within 24 hours. The NAHC would, in turn, contact the Most Likely Descendant (MLD) who would determine further action(s) to be taken. The MLD would have 48 hours to access the site and make a recommendation regarding disposition of the remains. Therefore, with incorporation of Mitigation Measure CUL-2, impacts would reduced to less than significant levels.

Mitigation Measures

CUL-2 In the event that human remains are uncovered during ground disturbing activities on the Project site, no further disturbance shall occur and all work shall cease within 100 feet of the discovery until the County Coroner has made a determination of the origin and disposition of the remains. Ground disturbing activities and excavations shall not resume until the following has been addressed:

1. The County Coroner has been contacted and determined that no investigation to the cause of death is required; and,

2. If the County Coroner determines that the remains are of Native American descent, the Coroner shall notify Native American Heritage Commission (NAHC), which will then determine the Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend means of treating or disposing of, with

Response to Comment Letter 7

Xitlaly Madrigal
Agua Caliente Band of Cahuilla Indians
July 23, 2025

7-1 The commenter requests that the language for Mitigation Measure CUL-1 in DEIR Section 4.18, *Tribal Cultural Resources,* on p. 4.18-7, to revised to specify that an Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Monitor be present during any ground disturbing activities during the Project construction phase.

Refer to Response 6-3, above. The language pertaining to tribal monitoring during Project construction in MM CUL-1 has been slightly revised to include a reference specifically to the ACBCI, as well as the Torres Martinez Desert Cahuilla Indians, per Comment Letter 6, above. This change is reflected in both Section 4.5, *Cultural Resources,* (page 4.5-10) and Section 4.18, *Tribal Cultural Resources,* (page 4.18-7) of the DEIR and in Section 3.0, Errata, of the Final EIR. It should be noted that this revision does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

Comment Letter 8 (page 1 of 5)

Comment Letter No. 8

Monday, July 21, 2025 at 9:36:47 AM Pacific Daylight Time

Subject: FW: 7/21/25-RE: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park
Date: Monday, July 21, 2025 at 9:21:38 AM Pacific Daylight Time
From: Nicole Criste <ncriste@terranovaplanning.com>
To: Kimberly Cuza <kcuza@terranovaplanning.com>
Attachments: image003.png, Coachella Airport Business Park Notice of Availability.pdf

Nicole Sauviat Criste
Principal

TERRA NOVA PLANNING & RESEARCH, INC.®
42635 Melanie Place, Ste 101
PALM DESERT, CA. 92211
(760) 341-4800
FAX#: 760-341-4455
E-Mail: ncriste@terranovaplanning.com

From: SCG SE Region Redlands Utility Request <SCGSERegionRedlandsUtilityRequest@semprautilities.com>
Date: Monday, July 21, 2025 at 8:32 AM
To: kreif@coachella.org <kreif@coachella.org>
Cc: Nicole Criste <ncriste@terranovaplanning.com>, McGarrey, Deborah <DMcgarrey@socalgas.com>, Terra Nova Planning & Research <admin@terranovaplanning.com>
Subject: 7/21/25-RE: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park

Hello,
Regarding: **Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park**
SoCalGas Distribution does not appear to have a conflict with this project. Please include a note to have the developer contact 811 / USA at DigAlert | Utility Locating California | Underground Wire & Cable Locator prior to any excavation / demolition activities so we can Locate & Mark out our facilities.
If the Developer needs new gas service, please have them contact our Builder Services group to begin the application process as soon as practicable, at https://www.socalgas.com/for-your-business/builder-services.
To avoid delays in processing requests and notifications, please have all Franchise correspondence sent to our Utility Request inbox, at SCGSERegionRedlandsUtilityRequest@semprautilities.com

8-1

1 of 5

Comment Letter 8 (page 2 of 5)

I cover the **Southeast Region – Redlands**
SCGSERegionRedlandsUtilityRequest@semprautilities.com would be your contact for requests in the southeastern ends of LA County, Riverside County, San Bernardino & Imperial Counties.

Southeast Region - Anaheim office which is all of Orange County and the southern ends of Los Angeles County; therefore, any Map and/or Will Serve Letter requests you have in these areas please send them to AtlasRequests/WillServeAnaheim@semprautilities.com

8-2

Northwest Region – Compton HQ For West and Central LA County, your Map Request and Will Serve Letters, will go to SCG-ComptonUtilityRequest@semprautilities.com

Northwest Region - Chatsworth
For any requests from the northern most parts of LA County all the way up to Visalia, San Luis Obispo, Fresno and Tulare you would
contact NorthwestDistributionUtilityRequest@semprautilities.com

Transmission
For Transmission requests, please contact SoCalGas Transmission,
at SoCalGasTransmissionUtilityRequest@semprautilities.com

READ MORE .....

MINOR STREET IMPROVEMENT PROJECTS: (CHIP SEAL, SLURRY SEAL, GRIND & OVERLAY)
Please notify Southern California Gas Company 4 months prior to start of pavement
projects for the gas company to complete leak survey & repair leaks if found.

MAJOR STREET IMPROVEMENT PROJECTS: (PROJECTS REQUIRING EXCAVATIONS GREATER THAN 9 INCHES, WIDENING OF EXISTING STREETS, INSTALLING NEW CURBS &
GUTTERS, BUS PADS, TRAFFIC SIGNALS, REALIGNMENT, GRADE SEPARATION, ETC.) 8-3
&
PIPELINE PROJECTS: (STORM DRAIN, WATERLINE, WATER, SEWER, ELECTRICAL, TELECOMUNICATIONS, ETC.)
Please provide Southern California Gas Company with your signed designed plans
with *gas company facilities posted* on your designs plans, 4-6 months prior to start of construction for possible relocation of SCG medium pressure facilities and 9-12 months
for possible relocation of SCG high pressure facilities.

2 of 5

Comment Letter 8 (page 3 of 5)

This time is needed to analyze plans and to design required alterations to any conflicting SCG gas facilities. Please keep us informed of any and all pre-construction meetings, construction schedules, etc., so that our work can be scheduled accordingly.

8-3 Cont.

Potholing may be required to determine if a conflict exists between the proposed development and our facilities. If, for any reason, there are SCG facilities in conflict, and a request to be relocated is needed, it is important to send the request in writing. Please include all required information below:

- **A Signed "Notice to Owner" request on Official Letterhead from the City, County,**

and/or company.

- **Name, Title and Project Number.**
- **Address, Location, Start Date, Parameters & Scope of Entire Job/Project.**
- **Copy of Thomas Guide Page and/or Google Map Screenshot Highlighting Project Area.**
- **Requestor Company's Contact Name, Title, Phone Number, Email, and other pertinent information.**

8-4

Thank you,
Josh Rubal
Lead Planning Associate
Distribution Planning & Project Management
Redlands HQ - Southeast Region
(213) 231-7978 Office
SCGSERegionRedlandsUtilityRequest@semprautilities.com

From: McGarrey, Deborah <DMcgarrey@socalgas.com>
Sent: Monday, July 21, 2025 8:14 AM
To: Terra Nova Planning & Research <admin@terranovaplanning.com>
Cc: kreif@coachella.org; Nicole Criste <ncriste@terranovaplanning.com>; SCG SE Region Redlands Utility Request <SCGSERegionRedlandsUtilityRequest@semprautilities.com>
Subject: Re: Notice of Availability and Completion of the Draft EIR - Coachella Airport Business Park

Good morning
I have forwarded the information to the SCG Utility Request department.

Get Outlook for iOS

From: Terra Nova Planning & Research <admin@terranovaplanning.com>
Sent: Monday, July 21, 2025 8:00:00 AM
Cc: kreif@coachella.org <kreif@coachella.org>; Nicole Criste <ncriste@terranovaplanning.com>
Subject: [EXTERNAL] Notice of Availability and Completion of the Draft EIR - Coachella Airport Business

3 of 5

Comment Letter 8 (page 4 of 5)

Park

On behalf of the City of Coachella, attached please find the Notice of Availability for the above referenced project for your review.

Document Availability: Copies of project documents, the Draft Environmental Impact Report, and appendices are available at the City of Coachella Development Services, Planning Division, 53990 Enterprise Way, Coachella, CA 92236, and on the City's website https://www.coachella.org/departments/development-services/environmental-reviews [coachella.org].

The City of Coachella is currently open Monday through Thursday between 7:00 a.m. and 6:00 p.m. and closed every Friday. Additionally, the Draft EIR and Technical Appendices will be provided to the following library for public review:

Coachella Library, 1500 Sixth Street, Coachella, CA 92236
Hours: Sunday: Closed. Monday: Closed. Tuesday: 10:00 am-6:00 pm. Wednesday: 11:00 am-7:00 pm. Thursday: 11:00 am-7:00 pm. Friday: 10:00 am-6:00 pm. Saturday: 10:00 am-6:00 pm.

Public Review Period: As mandated by State law, the minimum public review period for this document is 45 days. The Draft EIR is available for public review and comment beginning on July 21, 2025, and ending September 3, 2025. All comments on the Draft EIR must be submitted in writing to the email address or physical address provided below and received no later than 6:00 PM September 3, 2025.

All comments should be emailed to Kendra Reif, Community Development Director at Kreif@coachella.org , or mailed to:

City of Coachella Development Services, Planning Division
Attn: Kendra Reif, Community Development Director
53990 Enterprise Way, Coachella, CA 92236

Public Hearings: Notification of the date, timing, and place of future public hearings will be provided in compliance with City and California Environmental Quality Act (CEQA) requirements.

Kindest Regards,

TERRA NOVA PLANNING & RESEARCH, INC.®
42635 Melanie Place, Ste 101
Palm Desert, CA 92211
Phone: (760) 341-4800
Fax: 760-341-4455

4 of 5

Comment Letter 8 (page 5 of 5)

www.terranovaplanning.com [terranovaplanning.com]

5 of 5

Response to Comment Letter 8

Josh Rubal, Lead Planning Associate
Distribution Planning & Project Management
Redlands HQ - Southeast Region
Southern California Gas Company
July 23, 2025

8-1 The commenter states that SoCalGas does not have a conflict with the Project and provides contact information for the Project developer for pre-construction utility coordination. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

8-2 This comment provides contact information for the various SoCalGas regions. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

8-3 This comment provides notification timelines for various project types including minor and major street improvement projects and pipeline projects. The Project Applicant is coordinating with all utility purveyors including SoCalGas within the required timeframes. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

8-4 This comment states that potholing may be required to determine if a conflict exists between the proposed Project and SoCalGas facilities and provides instructions for sending a request in writing. The Project Applicant is coordinating with all utility purveyors including SoCalGas and will advise SoCalGas if potholing is required. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Comment Letter 9 (page 1 of 3)

Comment Letter No. 9

ADAMS BROADWELL JOSEPH & CARDOZO
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037

TEL (650) 589-1660
FAX (650) 589-5062
seannadan@adamsbroadwell.com

SACRAMENTO OFFICE
520 CAPITOL MALL, SUITE 350
SACRAMENTO, CA 95814-4721
TEL (916) 444-6201
FAX (916) 444-6209

KEVIN T. CARMICHAEL
CHRISTINA M. CARO
THOMAS A. ENSLOW
KELILAH D. FEDERMAN
RICHARD M. FRANCO
ANDREW J. GRAF
TANYA A. GULESSERIAN
DARION N. JOHNSTON
RACHAEL E. KOSS
AIDAN P. MARSHALL
PLAURA P. MCGUIRE
ISABEL TAHIR

Of Counsel
MARC D. JOSEPH
DANIEL L. CARDOZO

August 6, 2025

Via U.S. Mail and Email

Luis Lopez, Development Services Director
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: llopez@coachella.org

Angela M. Zepeda, City Clerk
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: cityclerk@coachella.org

Via Email Only

Kendra Reif, Principal Planner
Email: kreif@coachella.org

Via Online Submission:

https://coachella.seamlessdocs.com/f/PUBLICREQUESTFORM

Re: Request for Immediate Access to Documents Referenced in the Draft Environmental Impact Report– Coachella Airport Business Park Project (SCH No. 2023040106)

Dear Mr. Lopez, Ms. Zepeda, and Ms. Reif:

We are writing on behalf of Californians Allied for a Responsible Economy ("CARE CA") to request ***immediate access*** to any and all documents referenced, incorporated by reference, and relied upon in the Draft Environmental Impact Report ("DEIR") prepared for the Coachella Airport Business Park Project (SCH No. 2023040106) ("Project") proposed by Haagen Co., LLC (dba Empire Airport Co., LLC) ("Applicant"). *This request excludes a copy of the DEIR. This request also excludes any documents that are currently available on the City of Coachella website, as of today's date*.[1] 9-1

[1] Accessed https://www.coachella.org/departments/development-services/environmental-reviews on August 6, 2025.

7982-003j

printed on recycled paper

Comment Letter 9 (page 2 of 3)

The proposed Project site would be developed for industrial uses comprised of the following uses: large and small warehouse; personal vehicle storage and self-storage units; small business use spaces; a small retail and restaurant development; a 44-foot-tall electronic billboard sign located along the Project's small business frontage along SR 86; a fuel station with a convenience store; and associated landscaping, parking, lighting, and signage. An Imperial Irrigation District electrical substation facility would also be constructed as part of the project, at the northern end of the overall Project site. The new 315 foot x 315 foot electrical substation will require at least one 1-25 mega volt ampere 92/13.2 kilovolt transformer bank in order to provide adequate power for the proposed Project. The project would be located on northwest corner of SR 86 and Airport Blvd (APNs 763-330-013, -018, -029). 9-2

Our request for ***immediate access*** to all documents referenced in the DEIR is made pursuant to the California Environmental Quality Act ("CEQA"), which requires that all documents referenced, incorporated by reference, and relied upon in an environmental review document be made available to the public for the entire comment period.[2]

Please use the following contact information for all correspondence: 9-3

U.S. Mail
Sheila M. Sannadan
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080-7037

Email
ssannadan@adamsbroadwell.com

[2] *See* Public Resources Code § 21092(b)(1) (stating that "all documents referenced in the draft environmental impact report or negative declaration" shall be made "available for review"); 14 Cal. Code Reg. § 15072(g)(4) (stating that all documents incorporated by reference in the MND . . . "shall be readily accessible to the public").
7982-003j

Comment Letter 9 (page 3 of 3)

If you have any questions, please call me at (650) 589-1660 or email me at ssannadan@adamsbroadwell.com. Thank you for your assistance with this matter.

9-3
Cont.

Sincerely,

Sheila M. Sannadan
Legal Assistant

SMS:ljl

7982-003j

Response to Comment Letter 9

Sheila M. Sannadan, Legal Assistant
Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law
August 6, 2025

9-1 This comment requests copies of all documents referenced, incorporated by reference, and relied upon in the DEIR.

CEQA requires that the public notice specify the address where copies of the draft EIR and all documents referenced in the draft EIR are available for review. (PRC § 21092(b)(1)). CEQA also requires that the lead agency must post the draft EIR on its internet website, if any. (PRC § 21082.1(d)). Although CEQA requires that notice must be given in sufficient time so that the public is able to use the full review period, courts apply the principle that "statutory requirements for public notice are fulfilled if the public agency makes a good faith effort to follow the procedures prescribed by law" when reviewing a lead agency's compliance with the notice requirements of PRC § 21092. (*Gilroy Citizens for Responsible Planning v. City of Gilroy (2006) 140 Cal.App.4th 911, 922*-924). CEQA does not require the draft EIR to be provided in a manner beyond what is required by law, and courts shall not interpret the CEQA statutes or the state guidelines in a manner which imposes procedural or substantive requirements beyond those explicitly stated in the statutes or state guidelines. (PRC § 21083.1).

On August 11, 2025, the City made a good faith effort to provide the reference documents requested by CARE CA in its August 6, 2025, letter. Of note, CEQA does not require that functional hyperlinks or physical copies of requested documents must be provided in response to public requests or as part of the statutory public comment process. Instead, CEQA requires that the notice must provide the address where documents referenced in the draft EIR are available for review. (PRC § 21092(b)(1)). In accordance with *Gilroy*, these efforts by the City, and its CEQA consultant, plainly constitute a good faith effort to follow statutory requirements for public notice and Draft EIR availability. Although the City allowed comments to be submitted until September 11, 2025, this was only an extension for filing comments, not an extension of the legally required public review period.

CEQA does not require recirculation of the EIR where new information merely clarifies or amplifies or makes insignificant modifications in an adequate EIR. (PRC § 21092.1, *Laurel Heights Improvement Association v. Regents of the University of California* (1993) 6 Cal. 4th 1112.). Fulfilling the request to provide reference information for the documents requested by CARE CA in its August 6, 2025 letter amplifies the information already contained in an adequate EIR; therefore, recirculation is not required. Furthermore, this comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

9-2 This comment summarizes the project description. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

9-3 See Response 9-1.

Comment Letter 10 (page 1 of 2)

Comment Letter No. 10

ADAMS BROADWELL JOSEPH & CARDOZO
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037
TEL: (650) 589-1660
FAX: (650) 589-5062
ssannadan@adamsbroadwell.com

SACRAMENTO OFFICE
520 CAPITOL MALL, SUITE 350
SACRAMENTO, CA 95814-4721
TEL: (916) 444-6201
FAX: (916) 444-6209

KEVIN T. CARMICHAEL
CHRISTINA M. CARO
THOMAS A. ENSLOW
KELILAH D. FEDERMAN
RICHARD M. FRANCO
ANDREW J. GRAF
TANYA A. GULESSERIAN
DARION N. JOHNSTON
RACHAEL E. KOSS
AIDAN P. MARSHALL
ALAURA R. McGUIRE
ISABEL TAHIR

Of Counsel
MARC D. JOSEPH
DANIEL L. CARDOZO

August 6, 2025

Via U.S. Mail and Email

Luis Lopez, Development Services Director
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: llopez@coachella.org

Angela M. Zepeda, City Clerk
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: cityclerk@coachella.org

Via Email Only

Kendra Reif, Principal Planner
Email: kreif@coachella.org

Re: Request for Mailed Notice of Actions and Hearings – Coachella Airport Business Park Project (SCH No. 2023040106)

Dear Mr. Lopez, Ms. Zepeda, and Ms. Reif:

We are writing on behalf of Californians Allied for a Responsible Economy ("CARE CA") to request mailed notice of the availability of any environmental review document, prepared pursuant to the California Environmental Quality Act, related to the Coachella Airport Business Park Project (SCH No. 2023040106) ("Project") proposed by Haagen Co., LLC (dba Empire Airport Co., LLC) ("Applicant"). 10-1

The proposed Project site would be developed for industrial uses comprised of the following uses: large and small warehouse; personal vehicle storage and self-storage units; small business use spaces; a small retail and restaurant development; a 44-foot-tall electronic billboard sign located along the Project's small business frontage along SR 86; a fuel station with a convenience store; and associated landscaping, parking, lighting, and signage. An Imperial Irrigation District (IID) electrical substation facility would also be constructed as part of the project, at the northern end of the overall Project site. The new 315 foot x 315 foot electrical substation will require at least one 1-25 mega volt ampere (MVA) 92/13.2 kilovolt (kV) transformer bank in order to provide adequate power for the proposed Project. 10-2

7982-001j

printed on recycled paper

Comment Letter 10 (page 2 of 2)

10-2 Cont.

The project would be located on northwest corner of SR 86 and Airport Blvd (APNs 763-330-013, -018, -029).

We also request mailed notice of any and all hearings and/or actions related to the Project. These requests are made pursuant to Public Resources Code Sections 21092.2, 21080.4, 21083.9, 21092, 21108, 21152 and 21167(f) and Government Code Section 65092, which require local agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

Please send the above requested items by email and U.S. Mail to our San Francisco office as follows:

10-3

Please use the following contact information for all correspondence:

U.S. Mail
Sheila M. Sannadan
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080-7037

Email
ssannadan@adamsbroadwell.com

If you have any questions, please call me at (650) 589-1660 or email me at ssannadan@adamsbroadwell.com. Thank you for your assistance with this matter.

Sincerely,

Sheila M. Sannadan
Legal Assistant

SMS:ljl

7982-001j

Response to Comment Letter 10

Sheila M. Sannadan, Legal Assistant
Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law
August 6, 2025

10-1 CEQA requires the lead agency to provide public notice of the availability of the draft EIR at the same time [the lead agency] sends a notice of completion to the OPR. This comment requests mailed notice of the availability of any environmental review document prepared under CEQA for the proposed Project. The commenter has been added to the City's list of interested parties and has been, and will continue to be provided Project notices. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

10-2 This comment summarizes the project description. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

10-3 See Response 10-1.

Comment Letter 11 (page 2 of 3)

a 44-foot-tall electronic billboard sign located along the Project's small business frontage along SR 86; a fuel station with a convenience store; and associated landscaping, parking, lighting, and signage. An Imperial Irrigation District (IID) electrical substation facility would also be constructed as part of the project, at the northern end of the overall Project site. The new 315 foot x 315 foot electrical substation will require at least one 1-25 mega volt ampere (MVA) 92/13.2 kilovolt (kV) transformer bank in order to provide adequate power for the proposed Project. The project would be located on northwest corner of SR 86 and Airport Blvd (APNs 763-330-013, -018, -029). 11-2 Cont.

This request is made pursuant to the **California Public Records Act** (Government Code §§ 7920.000, *et seq.*). This request is also made pursuant to Article I, section 3(b) of the California Constitution, which provides a Constitutional right of access to information concerning the conduct of government. Article I, section 3(b) provides that any statutory right to information shall be broadly construed to provide the greatest access to government information and further requires that any statute that limits the right of access to information shall be narrowly construed.

We request *immediate access* to review the above documents pursuant to section 7922.525 of the Public Records Act, which requires public records to be "open to inspection at all times during the office hours of a state or local agency" and provides that "every person has a right to inspect any public record."[1] Therefore, the 10-day response period applicable to a "request for a copy of records" under Section 7922.535(a) does not apply to this request. 11-3

We request access to the above records in their original form, as maintained by the agency.[2] Pursuant to Government Code Section 7922.570, if the requested documents are in electronic format, please upload them to a file hosting program such as Dropbox, NextRequest or a similar program. Alternatively, if the electronic documents are 10 MB or less (or can be easily broken into sections of 10 MB or less), they may be emailed to me as attachments.

[1] Gov. Code §7922.525(a).
[2] Gov. Code § 7922.570; *Sierra Club v. Super. Ct.* (2013) 57 Cal. 4th 157, 161-62.
7982-002j

Comment Letter 11 (page 3 of 3)

We will pay for any direct costs of duplication associated with filling this request up to $200.[3] However, please contact me at (650) 589-1660 with a cost estimate before copying/scanning the materials.

Please use the following contact information for all correspondence:

U.S. Mail
Sheila M. Sannadan
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080-7037

Email
ssannadan@adamsbroadwell.com

11-4

If you have any questions, please call me at (650) 589-1660 or email me at ssannadan@adamsbroadwell.com. Thank you for your assistance with this matter.

Sincerely,

Sheila M. Sannadan
Legal Assistant

SMS:ljl

[3] Gov. Code §§ 7922.530, 7922.575; *North County Parents v. Dept. of Education* (1994) 23 Cal.App.4th 144; *County of Los Angeles v. Super. Ct.* (2000) 82 Cal.App.4th 819, 826.

7982-002j

Comment Letter 11 (page 1 of 3)

Comment Letter No. 11

ADAMS BROADWELL JOSEPH & CARDOZO
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037
TEL: (650) 589-1660
FAX: (650) 589-5062
scamacdan@adamsbroadwell.com

SACRAMENTO OFFICE
520 CAPITOL MALL, SUITE 350
SACRAMENTO, CA 95814-4721
TEL: (916) 444-6201
FAX: (916) 444-6209

KEVIN T. CARMICHAEL
CHRISTINA M. CARO
THOMAS A. ENSLOW
KELILAH D. FEDERMAN
RICHARD M. FRANCO
ANDREW J. GRAF
TANYA A. GULESSERIAN
DARION N. JOHNSTON
RACHAEL E. KOSS
AIDAN P. MARSHALL
ALAURA R. McGUIRE
ISABEL TAHIR

Of Counsel
MARC D. JOSEPH
DANIEL L. CARDOZO

August 6, 2025

Via U.S. Mail and Email

Luis Lopez, Development Services Director
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: llopez@coachella.org

Angela M. Zepeda, City Clerk
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: cityclerk@coachella.org

Via Email Only
Kendra Reif, Principal Planner
Email: kreif@coachella.org

Via Online Submission:
https://coachella.seamlessdocs.com/f/PUBLICREQUESTFORM

Re: Public Records Act Request – Coachella Airport Business Park Project (SCH No. 2023040106)

Dear Mr. Lopez, Ms. Zepeda, and Ms. Reif:

We are writing on behalf of Californians Allied for a Responsible Economy ("CARE CA") to request *immediate access to* any and all public records referring or related to the Coachella Airport Business Park Project (SCH No. 2023040106) ("Project") proposed by Haagen Co., LLC (dba Empire Airport Co., LLC) ("Applicant"). This request includes, but is not limited to, any and all file materials, applications, correspondence, resolutions, memos, notes, analysis, email messages, files, maps, charts, and any other documents related to the Project. *This request does not include the Draft Environmental Impact Report ("DEIR") or documents referenced or relied upon in the DEIR, which we have requested in a separate letter pursuant to the California Environmental Quality Act.* 11-1

The proposed Project site would be developed for industrial uses comprised of the following uses: large and small warehouse; personal vehicle storage and self-storage units; small business use spaces; a small retail and restaurant development; 11-2

7982-002j

printed on recycled paper

Response to Comment Letter 11

Sheila M. Sannadan, Legal Assistant
Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law
August 6, 2025

11-1 This comment consists of a Public Records Act (PRA) request for any and all Project-related public records including but not limited to file materials, applications, correspondence, resolutions, memos, notes, analysis, email messages, files, maps, charts, and any other files related to the Project. The City Clerk responded to the commenter, and provided all responsive records. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

11-2 This comment summarizes the project description. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

11-3 This comment cites provisions relative to the California PRA, under which this request has been made. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

11-4 This comment states that direct duplication costs will be paid by the commenter upon request and provides contact information. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

Comment Letter 12 (page 1 of 1)

Comment Letter No. 12

LOZEAU DRURY LLP
T 510.836.4200
F 510.836.4205
1939 Harrison Street, Ste. 150
Oakland, CA 94612
www.lozeaudrury.com
brian@lozeaudrury.com

Via Email

August 6, 2025

Kendra Reif, Community Development Director
Development Services Department
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Kreif@coachella.org

Nicole Sauviat Criste, Consulting Planner
Terra Nova Planning & Research, Inc.
42635 Melanie Place, Ste 101
ncriste@terranovaplanning.com

Re: Comment on Draft Environmental Impact Report, Coachella Airport Business Park (SCH No. 2023040106)

Dear Ms. Reif and Ms. Criste:

This comment is submitted on behalf of Supporters Alliance for Environmental Responsibility ("SAFER") regarding the Draft Environmental Impact Report ("DEIR") prepared for the Coachella Airport Business Park Project (SCH No. 2023040106), which proposes the development of a mixed-use business park with 624,500 square feet for industrial uses located at the northwest corner of the intersection of State Route 86 and Airport Boulevard (APNs 763-330-013, -018, and -029) in the City of Coachella ("Project"). 12-1

SAFER is concerned that the DEIR fails as an informational document and fails to impose all feasible mitigation measures to reduce the Project's impacts. SAFER requests that the Development Services Department address these shortcomings in a revised draft environmental impact report ("RDEIR") and recirculate the RDEIR prior to considering approvals for the Project. 12-2

SAFER reserves the right to supplement these comments during the administrative process. *Galante Vineyards v. Monterey Peninsula Water Management Dist.*, 60 Cal. App. 4th 1109, 1121 (1997). 12-3

Sincerely,

Brian Flynn
Lozeau Drury LLP

Response to Comment Letter 12

Brian Flynn
Supporters Alliance for Environmental Responsibility via Lozeau Drury, LLP
August 6, 2025

12-1 This comment provides a general introduction and includes a general summary of the proposed Project. Responses to specific comments are provided below.

12-2 The commenter expresses concern that the DEIR fails as an informational document and fails to impose all feasible mitigation measures to reduce the Project's impacts. The commenter requests that the City recirculate the Draft EIR. The comment does not provide substantial evidence of a significant environmental impact or the need to recirculate the Draft EIR. As discussed in *Browning-Ferris Indus. v. City Council* (1986) 181 Cal.App.3d 852, 862, a general response to a general comment is sufficient.

The Draft EIR provides an accurate and thorough analysis of all of the project's potential environmental impacts pursuant to CEQA. As discussed throughout the Draft EIR, mitigation measures would be required for impacts related to Aesthetics, Biology, Cultural Resources, Geology, Greenhouse Gases, and Soils, Hazards and Hazardous Materials, Noise, and Transportation as these impact areas are potentially significant after the imposition of existing regulations and standard conditions. For other impact areas, the Draft EIR details that there is no nexus requiring mitigation pursuant to State CEQA Guidelines section 15126.4, subd. (a)(4)(A)-(B), as impacts would be less than significant. No conditions exist that would require recirculation of the Draft EIR pursuant to State CEQA Guidelines section 15088.5 and the Draft EIR is not fundamentally inadequate or conclusory in nature.

.

12-3 The commenter concludes that they reserve the right to supplement these comments. Comment noted.

Comment Letter 13 (page 1 of 9)

Comment Letter No. 13

September 3, 2025

Advocates for the Environment

A non-profit public-interest law firm
and environmental advocacy organization



Nicole Sauviat Criste
Consulting Planner
Terra Nova Planning & Research, Inc.
42635 Melanie Place, Suite 101
Palm Desert, CA 92211

Via U.S. Mail and email to ncriste@terranovaplanning.com and Kreif@coachella.org

Re: Comments on Draft Environmental Impact Report for the Coachella Airport Business Park Project, SCH No. 2023040106

Dear Ms. Criste:

Advocates for the Environment submits the comments in this letter regarding the Draft Environmental Impact Report (**DEIR**) for the Coachella Airport Business Park Project (**Project**). The Project Site is 47.96 acres located on the northwest corner of State Route 86 (**SR 86**) and Airport Boulevard in the City of Coachella (**City**), County of Riverside, California. The Project proposes to develop an industrial business park totaling 624,500 square feet, including 233,100 square feet of large warehouse structures, 96,000 square feet of small warehouse structures, 81,000 square feet of small business buildings, 19,200 square feet of personal vehicle storage structures, 128,600 square feet of self-storage buildings, and a 4,000 square-foot fuel station with convenience store, among other developments on the site. We have reviewed the DEIR and submit comments regarding the sufficiency of the DEIR's Greenhouse-Gas (**GHG**) analysis under the California Environmental Quality Act (**CEQA**). 13-1

The City should require the Project to be net-zero

Given the current regulatory context and technological advancements, a net-zero significance threshold is feasible and extensively supportable. GHG emissions from buildings, including indirect emissions from offsite generation of electricity, direct emissions produced onsite, and from construction with cement and steel, amounted to 21% of global GHG emissions in 2019. (IPCC Sixth Assessment Report, Climate Change 2022, WGIII, Mitigation of Climate Change, p. 9-4.) This is a considerable portion of global GHG emissions. It is much more affordable to construct new building projects to be net-zero than to obtain the same level of GHG reductions by expensively retrofitting older buildings to comply with climate change regulations. Climate damages will keep increasing until we reach net zero GHG emissions, and there is a California state policy requiring the state to be net-zero by 2045. It therefore is economically unsound to construct new buildings that are not net-zero. 13-2

Environmental groups have achieved incredible outcomes by litigation under CEQA. Two of the largest mixed-use development projects in the history of California, Newhall Ranch

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650-0030 X101 dw@aenv.org

Comment Letter 13 (page 2 of 9)

(now FivePoint Valencia), and Centennial (part of Tejon Ranch) decided to move forward as net-zero communities after losing CEQA lawsuits to environmental groups. The ability for these large projects to become net-zero indicates that it is achievable, even for large-scale developments. The Applicant for this Project should do the same.

We urge the City to adopt net-zero as the GHG significance threshold for this project. This threshold is well-supported by plans for the reduction of GHG emissions in California, and particularly the CARB Climate Change Scoping Plans. The CARB 2017 Scoping Plan states that "achieving no net additional increase in GHG emissions, resulting in no contribution to GHG impacts, is an appropriate overall objective for new development." (CARB 2017 Scoping Plan, p. 101.)

13-2 Cont.

Additionally, the CARB 2022 Scoping Plan reaffirms the necessity of a net zero target by expressing: "it is clear that California must transition away from fossil fuels to zero-emission technologies with all possible speed ... in order to meet our GHG and air quality targets." (CARB 2022 Scoping Plan, p. 184.) CARB further encourages a net-zero threshold in its strategies for local actions in Appendix D to the 2022 Scoping Plan. (CARB 2022 Scoping Plan, Appendix D p. 24-26.) Moving this Project forward as a net-zero project would not only be the right thing for the City to do, but also would help protect the City and the Applicant from CEQA GHG litigation.

GHG Analysis

The City adopted two GHG significance thresholds based on CEQA Guidelines, Appendix G: (1) whether the project would "[g]enerate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or (2) whether the project would "[c]onflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases." (DEIR, p. 4.8-9.) The DEIR states that the Project's GHG emissions would be less than significant after mitigation because the Project would comply with the City of Coachella Climate Action Plan (**CAP**)[1] by implementing "all applicable development standards presented in the CAP Development Review Checklist." (DEIR, p. 4.8-9.)

13-3

However, the DEIR ignored the fact that the Project before mitigation would conflict with the CAP on the whole and failed to clearly determine and analyze the potential significance of the Project's GHG impact before mitigation, as required by CEQA. The DEIR did not reference the CAP's reduction target of 49% below 2010 GHG emissions levels per service population by 2035 or demonstrate how the Project would be consistent with this goal. While

[1] City of Coachella, Climate Action Plan, Public Draft, April 2015, available at: https://cityofcoachellageneralplanupdate.weebly.com/uploads/1/2/1/2/12129446/climate_action_plan.pdf

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650 0030 X101 dw@aenv.org

Comment Letter 13 (page 3 of 9)

the DEIR identifies certain measures and project features intended to reduce emissions, it does not explain how these measures will be achieved, enforced, or measured to reach the CAP target reduction. There is no project-specific evidence or quantitative analysis to demonstrate the Project's GHG emissions will be reduced to a less-than-significant level. Thus, the mitigation is vague and deferred.

13-3 Cont.

Moreover, the DEIR concludes that the Project's cumulative GHG impact would be less than significant after mitigation because of its purported consistency with the CAP. (DEIR, p. 4.8-21.) However, it did not demonstrate that the mitigation measure requiring such consistency, MM GHG-1, would achieve compliance with the CAP. The City did not provide substantial evidence that adherence to the Coachella CAP would be sufficient to reduce the Project's cumulative impact to the less-than-significant level, and even if the Project were to adhere to the CAP, it would still conflict with California's GHG reduction goals.

The CAP is not a qualified streamlining instrument under CEQA Guidelines 15183.5(b)(1)

The CAP was designed to help the City to conduct a streamlined review of project-level GHG emissions under CEQA. The DEIR asserts that the CAP qualifies as a "Plan for the Reduction of Greenhouse Gas Emissions" under CEQA Guidelines § 15183.5(b). But, as described in the following paragraphs, the CAP does not meet the requirements of § 15183.5(b).

Section 15183.5(b)(1)(A) requires that a qualifying plan must "quantify greenhouse gas emissions, both existing and projected over a specified time period, resulting from activities within a defined geographic area." The CAP was adopted in April 2015. The Guidelines' requirement requires that a qualifying plan must quantify the existing GHG emissions in the area. But the CAP relies exclusively on a 2010 GHG inventory. (CAP, pp. 22-23.) This inventory was already five years outdated upon adoption of the CAP, and 15 years outdated when being relied upon for decision-making for this project. The City made no showing that the CAP complies with this requirement to quantify existing and projected emissions.

13-4

Section 15183.5(b)(1)(B) requires that a qualifying plan must "establish a level, below which the contribution to greenhouse gas emissions from activities covered by the plan would not be cumulatively considerable." The CAP sets city-wide emissions reductions targets for 2020 and 2035 (CAP, p. 28), but does not connect them to any established GHG level for when a project's impacts become cumulatively considerable, or a level at which covered activities would be less than cumulatively considerable. Further, these targets are not compliant with SB 32 or aligned with any of the more recent climate goals.

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650-0030 X101 dw@aenv.org

Comment Letter 13 (page 4 of 9)

Section 15183.5(b)(1)(D) requires that a qualifying plan must "specify measures or a group of measures, including performance standards, that substantial evidence demonstrates, if implemented on a project-by-project basis, would collectively achieve the specified emissions level." The CAP contains measures for reducing emissions (CAP, pp. 31-35), but contains no analysis or substantial evidence showing that adoption of these measures will reduce the City's GHG emissions to a particular level on a city-wide or project level basis. 13-4 Cont.

The Coachella CAP does not meet the criteria in the CEQA Guidelines to be a document from which the City can streamline a project's analysis. It is erroneous to streamline under CEQA Guidelines § 15183.5(b) because the CAP is not a qualified reductions plan under the CEQA Guidelines.

The Project would have a significant cumulative impact that would not be resolved by CAP compliance

The City did not demonstrate that adherence to the CAP would ensure a less-than-significant GHG impact. The DEIR concludes that the Project would have a less-than-significant cumulative GHG impact, relying on its analysis of consistency with the CAP through several design measures included in MM GHG-1. (DEIR, p. 4.8-21.) The City's determination that MM GHG-1 would reduce the Project's GHG impact to a less-than-significant level was erroneous and not supported by substantial evidence. 13-5

Use of the CAP as a significance threshold is not supported by substantial evidence

Because the CAP is not a qualified streamlining document under CEQA Guidelines 15183.5(b)(1), the City should have provided substantial evidence to support its use of the CAP as its sole determinant of the Project's GHG significance. Consistency with the CAP is not a valid GHG significance threshold because the City did not demonstrate, with substantial evidence, that consistency with the CAP would conform to California's GHG reduction goals. 13-6

In particular, the City does not provide analysis to connect the citywide 2035 goal of 4.2 MTCO2e per service population to the 2017 Scoping Plan target of 2 MTCO2e/capita by 2050, or any other relevant state climate goals.

The City did not demonstrate that the mitigation would achieve CAP Compliance

The DEIR's analysis is based on the premise that MM GHG-1 would bring the Project into conformance with the CAP. Yet, the City did not provide substantial evidence for this determination. The Project's annual per-service population GHG emissions would be 10.84 13-7

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650-0030 X101 dw@aenv.org

Comment Letter 13 (page 5 of 9)

MTCO2e.[2] The CAP aims to reduce GHG emissions per service population (**sp**) to 7 MTCO2e /sp by 2020 and 4.2 MTCO2e/sp by 2035. The Project would exceed both targets, and the DEIR makes no showing that the per- service-population metric would be reduced through the implementation of MM GHG-1. Thus, the mitigation would be insufficient for the Project to achieve CAP compliance and does not demonstrate that the Project would have a less-than-significant impact after mitigation. 13-7 Cont.

The DEIR asserts that MM GHG-1 would allow the Project to achieve a 10 percent reduction in construction GHG emissions. However, this claim is not supported by substantial evidence and rely on unsubstantiated assumptions. The DEIR states, without explanation, that the off-road equipment, required by MM GHG-1 to be powered by alternative fuels, would result in an 8.4% reduction in construction GHG emissions because it would amount to an 8.4% reduction in fuel usage. (DEIR, p. 4.8-13.) 13-8

Requiring alternative fuels is not the same as requiring zero emission equipment, so the reduction in fuel use is likely to be below 8.4%. Further, the City provided no connecting evidence to support its assumption that fuel usage is equivalent to construction GHG emissions reductions. There are other factors such as waste generation that influence the breakdown of GHG construction impact, which the City did not consider when it treated these two metrics as interchangeable.

Similarly, the 1.6% reduction through a traffic demand plan (**TDM**) lacks detailed analysis or enforcements mechanisms to ensure the TDM is effective. (See CEQA Guidelines Section 15126.4(a)(1)(B).) Overall, the DEIR did not provide sufficient information to demonstrate that the Project, even with MM GHG-1, would achieve the CAP's goals. 13-9

Consistency with Applicable Plans

The DEIR discusses the 2022 Scoping Plan, Southern California Association of Governments Connect SoCal, and the City of Coachella CAP to indicate that the Project would not conflict with the second significance threshold, consistency with an applicable plan, policy, or regulation for GHG emissions reductions. However, this significance analysis violates CEQA because it ignores the Project's conflicts with the 2022 Scoping Plan and ignores other applicable plans, including the 2017 Scoping Plan and EO B-55-18. 13-10

The Project is inconsistent with the 2022 CARB Scoping Plan's key targets for electrification and decarbonization, yet the DEIR fails to address the inconsistencies. First, the 2022 Scoping Plan sets a goal for 50% of all industrial energy demand to be electrified by 2045 (2022 CARB Scoping Plan, p. 77).[3] The DEIR does not show that the Project is consistent

[2] 8,030 MTCO2e per year ÷ 741 employees = 10.84 MTCO2e per capita
[3] 2022 Scoping Plan located at: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf

Comment Letter 13 (page 6 of 9)

with this goal. The 2022 CARB Scoping Plan also places particular emphasis on decarbonizing industrial facilities by "displacing fossil fuel use with a mix of electrification, solar thermal heat, biomethane, low- or zero-carbon hydrogen, and other low-carbon fuels to provide energy for heat and reduce combustion emissions." (2022 CARB Scoping Plan, p. 208). The Project does not appear to be consistent with this goal, and there was insufficient analysis provided in the DEIR to demonstrate otherwise. 13-10 Cont.

Next, the Project claims it is in compliance with transportation sector policies when it is actually relying on vehicle manufacturer compliance to indirectly satisfy the 2022 Scoping Plan requirements, rather than applying project-specific measures. (DEIR, p. 4.8-20.) The finding of less-than-significant impacts after mitigation improperly relies on the assumption that the State will update and enforce applicable mitigation measures, and it is these assumptions that make the Project less-than-significant. This shifts responsibility away from the Project itself, and the measures identified are neither project-specific nor sufficiently detailed, effectively deferring mitigation in violation of CEQA. 13-11

Additionally, the Project is likely to rely on diesel fuel in its operations, potentially conflicting with the 2022 Scoping Plan's objectives. Although the DEIR mentions several measures and regulations aimed at reducing GHG emissions from mobile sources, such as the Advanced Clean Truck Regulation and Clean Off-Road Fleet Recognition Program, it does not specifically address how the Project will contribute to or comply with the goal of electrifying 50% of industrial energy demand by 2045. Therefore, the Project conflicts with the goals of the 2022 Scoping Plan by not adequately reducing its reliance on fossil fuels and failing to incorporate sufficient low- or zero-carbon energy sources. 13-12

The EIR should have analyzed all applicable plans

The DEIR's second threshold for GHG emissions is whether the Project would "conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases." (DEIR, p. 4.8-20.) For the Project's emissions to be considered insignificant under this threshold, the Project must be consistent with all applicable plans, but it is not. 13-13

The DEIR fails to analyze the 2017 Scoping Plan, which is still relevant. It established the foundational framework and strategies for achieving the 2030 GHG target, which has yet to be accomplished. While the 2022 Scoping Plan builds upon previous plans, it does not supersede or replace the 2017 initiatives. Relevant portions of the 2017 Scoping Plan should have been analyzed because it is still an "applicable plan" that was adopted by the State to reduce GHG emissions.

Comment Letter 13 (page 7 of 9)

The CARB 2017 Scoping Plan sets out statewide goals for total GHG emissions targets of 6 MTCO2e/capita by 2030, and 2 MTCO2e/capita by 2050 (2017 CARB Scoping Plan, p. 99). The Project's GHG emissions would be 8,030 MTCO2e per year with 741 employees. (DEIR, p. 2.0-6.) The Project's annual per-capita GHG emissions will therefore be 10.84 MTCO2e[4]. The Project will exceed both the 2030 and 2050 targets. This metric is also inconsistent with the CAP, which aims to reduce GHG emissions per service population (**sp**) to 7 MTCO2e /sp by 2020 and 4.2 MTCO2e/sp by 2035. The Project far exceeds both targets, thus, the Project's GHG emissions will be significant by conflicting with applicable plans for the reduction of GHG emissions under the second threshold. The DEIR's conclusion to the contrary violates CEQA.

13-13 Cont.

Additionally, the Project neither discusses, nor demonstrates consistency with, Executive Order B-55-18, which establishes the statewide goal of achieving carbon-neutrality by 2045.[5] As discussed above, the Project conflicts with the 2022 Scoping Plan, which serves as the roadmap to reach carbon neutrality by 2045. The Project's failure to adhere to the Scoping Plan and implement all mitigation strategies indicates that the Project will conflict with EO B-55-18 and undermine the State's climate goals. The DEIR's insufficient discussion and exclusion of the 2017 Scoping Plan and EO B-55-18 demonstrate that the Project cannot be considered consistent with applicable plans, policies, or regulations, as required by CEQA.

13-14

Inappropriate Deferral of Significance Conclusion

An EIR must determine significance on the project and its inherent design features alone before incorporating mitigation measures, and it is not permissible to "compress[] the analysis of impacts and mitigation measures into a single issue" (*Lotus v. Dep't of Transportation* (2014) 223 Cal.App.4th 645, 656.) Here, the DEIR impermissibly incorporated mitigation before determining significance to conclude that the Project would not have significant GHG impact. The DEIR stated that GHG-1 would be incorporated "in order to comply with the CAP," but this is not the same as a clear finding of significant impact before mitigation.

13-15

Without the extra measures provided in MM GHG-1, the Project would exceed the significance threshold of consistency with the CAP. Thus, the DEIR should have concluded that the Project's GHG impact would be significant before analyzing impact with mitigation included.

[4] 8,030 MTCO2e per year ÷ 741 Employees = 10.84 MTCO2e per capita
[5] Exec. Order No. B-55-18, Cal. Gov't located at: https://archive.gov.ca.gov/archive/gov39/wp-content/uploads/2018/09/9.10.18-Executive-Order.pdf

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650 0030 X101 dw@aenv.org

Comment Letter 13 (page 8 of 9)

More mitigation would be required to sufficiently reduce the Project's potentially significant impact

Due to the conflict with the CAP and other evidence demonstrating significant impact, the City should have found that the Project would have a potentially significant GHG impact before mitigation, requiring a thorough discussion of mitigation measures. However, the DEIR only included one GHG mitigation measure and did not consider any other mitigation to reduce the Project's potentially significant impact, based on the erroneous determination that MM GHG-1 would be sufficient to reduce the Project's significant GHG impact.

By stating that GHG-1 would be necessary to comply with the CAP, the chosen significance threshold, the City implies that the Project's GHG impact would be significant before mitigation. (DEIR, p. 4.8-9.) GHG impacts are inherently cumulative because climate change results from contributions from all past present and future projects that emit GHGs. Once a lead agency finds a potentially significant cumulative impact, CEQA requires that the Project incorporate fair-share mitigation. *Napa Citizens for Honest Gov't v. Napa County Board of Supervisors* (2001) 91 Cal.App.4th 342, 364.) Here, this means reducing the full extent of the Project's contribution to the cumulatively significant GHG impact. 13-16

However, complying with the CAP does not demonstrate GHG emission reductions would be reduced to a fair-share level because the Coachella CAP does not require the Project to fully reduce its emissions. MM GHG-1 only requires the Project to implement the minimum changes necessary to comply with the CAP, rather than committing to the maximum feasible mitigation required.

Without mitigation, the Project will likely contribute to well over 200,000 MTCO2e over its projected 30-year lifespan.[5] This is a good starting point from which to subtract the effect of additional non-offset mitigation measures before implementing offset purchases. After requiring operational emission reductions to the maximum feasible extent through energy reducing measures, solar electricity generation, and electric vehicle charging stations and fleets, the City could require the Applicant to purchase offsets for the Project's remaining GHG emissions. Ultimately, there are many GHG mitigation measures that the City failed to consider because it erroneously determined that a single measure MM GHG-1 would be sufficient to reduce the Project's GHG impact. 13-17

Conclusion

Although the City identified the Project's GHG impact as less-than-significant after mitigation, the chosen threshold was not supported by substantial evidence and the proposed 13-18

[5] 8,030 MTCO2e per year × 30 years = 240,900 MTCO2e

Comment Letter 13 (page 9 of 9)

mitigation would not be sufficient to reduce the Project's impact to a less-than-significant level. The City's failure to analyze significance before mitigation and potential mitigation measures amounted to prejudicial error that hinders the public and decision-makers from understanding the potential GHG impact of this Project.

13-18 Cont.

Please put me on the interest list to receive updates about the progress of this Project. We make this request under Public Resources Code, § 21092.2.

Sincerely,



Dean Wallraff, Attorney at Law
Executive Director, Advocates for the Environment

10211 Sunland Blvd., Shadow Hills, CA 91040 (818) 650-0030 X101 dw@aenv.org

Response to Comment Letter 13

Dean Wallraff, Attorney at Law
Executive Director
Advocates for the Environment
September 3, 2025

13-1 This comment provides a general introduction and includes a general summary of the proposed Project. Responses to specific comments are provided below.

13-2 The commenter opines that the City should require the Project to be net zero. The commenter's opinion is noted. This comment does not raise a significant environmental concern regarding the DEIR's analysis of GHG impacts; instead, it suggests that the City should adopt a different GHG significance threshold for the Project.

CEQA allows the lead agency to use its informed judgment in determining the standards of significance on which to rely. (*See East Oakland Stadium Alliance v City of Oakland* (2023) 89 Cal.App.5th 1226, 1258). Section 4.8 of the DEIR addresses GHG emissions in accordance with CEQA requirements (*see* 14 CCR 15064.4). CEQA does not require the City to adopt net-zero as a significance threshold for GHG emissions. Instead, a lead agency may determine that a project has a less than significant cumulative impact related to GHG emissions if the project complies with the requirements of a previously approved plan for the reduction of GHG emissions. (14 CCR 15064(h)(3)). The applicable emissions reduction plan for the Project is the Coachella Climate Action Plan ("CAP") that was developed to be utilized as a tiering document for the streamlined review of project-level GHG emissions under CEQA for development projects in the City. As noted on page ES-14 of the DEIR it is determined, by a showing of substantial evidence, that the Project is consistent with the CAP with Mitigation Measure GHG-1 incorporated. The City included the CAP in the Coachella General Plan Update 2035 Project. The City Council approved the General Plan Update 2035 document along with the Program EIR and the CAP on April 22, 2015. The CAP builds on the 2013 General Plan Update by quantifying emissions from buildout of the City of Coachella General Plan and includes additional policies and implementation actions to help the City further reduce emissions. The CAP establishes emissions reduction targets to meet the statewide emissions targets provided in Executive Order S-03-5 that require GHG emissions to be reduced to 1990 levels by 2020 and reduced to 80 percent below 1990 levels by 2050. The CAP was developed to be utilized as a tiering document for the streamlined review of project-level GHG emissions under CEQA for development projects within the City. The CAP meets CEQA requirements for qualified GHG emissions reduction plans under 14 CCR 15183.5(b).[2]

The 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan), adopted by the California Air Resources Board on November 16, 2022, does not require local agencies to adopt net-zero GHG significance thresholds. Instead, the 2022 Scoping Plan identifies a technologically feasible and cost-effective path to achieve carbon neutrality by 2045. (2022 Scoping Plan, p. 1). The Scoping Plan encourages local jurisdictions to develop a CAP to plan

[2] City of Coachella - Planning Division, Climate Action Plan § (2015), pages 68-70. https://cityofcoachellageneralplanupdate.weebly.com/uploads/1/2/1/2/12129446/climate_action_plan.pdf.

for the reduction of GHG emissions and allow individual projects to streamline project-specific GHG analysis. (2022 Scoping Plan p. 268).

The commenter quotes language from the Transportation Sustainability section of the 2022 Scoping Plan to suggest that the 2022 Scoping Plan reaffirms a necessity for a local agency to adopt a net-zero GHG significance threshold. However, the quoted language actually refers to the transition from fossil fuels to zero-emission vehicle technologies within the transportation sector: "While CARB's programs, along with local action, have made substantial progress over the past few decades, it is clear that California must transition away from fossil fuels to zero-emission technologies with all possible speed and pursue policies that result in less driving, in order to meet our GHG and air quality targets . . . Technology refers to the vehicles themselves, as well as the associated refueling infrastructure for those vehicles." (2022 Scoping Plan, p. 184). Of note, the DEIR addresses the transition away from fossil fuel vehicle technologies in Mitigation Measure GHG-1: "To the maximum extent feasible, all off-road equipment (non-street legal), such as forklifts and street sweepers, used onsite for warehouse operations shall be powered by alternative fuels, electrical batteries or other alternative/non-diesel fuels (e.g., propane or compressed natural gas (CNG)) that do not emit diesel particulate matter, and that are low or zero emissions." (DEIR p. 4.8-20).

Finally, the commenter states that Appendix D to the 2022 Scoping Plan further encourages a net-zero threshold. Appendix D is not a regulatory requirement; instead, it provides recommendations intended to help local governments develop local GHG reduction strategies through the development of CAPs. (2022 Scoping Plan, Appendix D, p. 4). Regarding the adoption of a net-zero threshold of significance, Appendix D states: "Absent consistency with an adequate, geographically specific GHG reduction plan . . . lead agencies can make a significance determination . . . based on whether the project would result in net-zero GHG emissions. (Note that lead agencies can also use other valid significance thresholds, as described in subsection 3.2.3 below.) Although achieving net-zero GHG emissions may be an appropriate overall objective, it should be noted this approach may not be feasible or appropriate for every project." (2022 Scoping Plan, Appendix D, p. 24).

In addition, as noted in the DEIR Project description (Section 2, pages 2.0-3 through 2.0-5) and in Attachment B2 (AQ/GHG/HRA Responses to Comments Technical Memorandum) of this FEIR, the proposed Project consists of a business park with a mixture of commercial and industrial uses. The commenter references net zero communities that are primarily residential communities, where Title 24 regulations require that new homes built in California are net zero through the installation of solar systems on each home. When developing the Title 24 regulations, the State recognized the importance of commercial and industrial projects to the State economy, as well as the ability of commercial uses to provide local services to the community, and Title 24 provides different standards for non-residential buildings, which allow for these buildings to consume more energy, which cannot currently be met with onsite solar PV systems. However, it should be noted that the Project Applicant has committed to implementing Mitigation Measure GHG-1, which requires a minimum of 50% of the total Project electrical consumption to be provided from onsite renewable sources. As such, no changes in regard to this comment have been made to the DEIR.

13-3 This comment relates to the sufficiency of the GHG analysis conducted for the proposed Project, stating that the DEIR ignored the fact that the Project before mitigation would conflict with the CAP on the whole and failed to clearly determine and analyze the potential significance of the Project's GHG impact before mitigation. The commenter explains that the DEIR did not reference the CAP's reduction target of 49% below 2010 GHG emissions levels per service population by 2035 or demonstrate how the Project would be consistent with this goal. While the DEIR identifies certain measures and project features intended to reduce emissions, the commenter asserts that it does not explain how these measures will be achieved, enforced, or measured to reach the CAP target reduction and that it did not demonstrate that the mitigation measure requiring such consistency, MM GHG-1, would achieve compliance with the CAP.

CEQA allows a lead agency to streamline GHG analysis for projects that are consistent with a qualified GHG emissions reduction plan. (14 CCR 15183.5(a)). The City's CAP, adopted on April 22, 2015, meets CEQA requirements for qualified GHG emissions reduction plans under 14 CCR 15183.5(b).[3] A lead agency may determine that a project has a less than significant cumulative impact related to GHG emissions if the project complies with the requirements of a previously approved plan for the reduction of GHG emissions. (14 CCR 15064(h)(3)). According to CEQA, an environmental document that relies on a greenhouse gas reduction plan for a cumulative impacts analysis must identify the requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project. (14 CCR 15183.5(b)(2)). Under the streamlined analysis approach, the relevant question is not whether a project's unmitigated GHG emissions would be significant, but whether the project is consistent with the CAP's GHG reduction strategy after applying CAP requirements. In other words, the CAP itself is the analytical basis for determining significance. The DEIR correctly identifies the CAP requirements applicable to the Project and evaluates the Project's GHG impacts by determining its consistency with those CAP requirements in DEIR Table 4.8-4.

Regarding CAP emission reduction targets, the DEIR references the CAP's emissions reduction target on p. 4.8-8, stating: "The CAP establishes emissions reduction targets in order to meet the statewide emissions targets provided in Executive Order S-03-5 that require GHG emissions to be reduced to 1990 levels by 2020 and reduced to 80 percent below 1990 levels by 2050." The CAP states that the 2035 emissions target is "Extrapolated based on a linear projection from 2020 target (15% below 2010 levels) to 2050 target (80% below 1990 levels)." (Coachella CAP, footnote 44). Therefore, the DEIR's acknowledgement of the 2050 target accounts for the interim 2035 GHG emissions target.

Regarding consistency with CAP emission reduction goals, a project is consistent with a plan's GHG emissions reduction targets if the project complies with all requirements specified in the plan that apply to the project. (14 CCR 15183.5(b)). DEIR Table 4.8-4, *Project Consistency with the City of Coachella CAP Development Review Checklist*, identifies the CAP requirements applicable to the Project and demonstrates how the Project will be consistent with each

[3]City of Coachella - Planning Division, Climate Action Plan § (2015), pages 68-70. https://cityofcoachellageneralplanupdate.weebly.com/uploads/1/2/1/2/12129446/climate_action_plan.pdf.

identified requirement. Therefore, because the DEIR demonstrates compliance with applicable CAP requirements, the lead agency has determined that the Project is consistent with the CAP's GHG emissions reduction targets.

In regard to the commenter's concerns related to the GHG Mitigation Measures, CEQA specifies that formulation of mitigation measures shall not be deferred until some future time. (14 CCR 15126.4(a)(1)(B)). The DEIR specifies that the Project will adopt Mitigation Measure GHG-1 to ensure compliance with the CAP's Construction Emissions Reduction requirements. Mitigation Measure GHG-1 identifies that the Project would, to the maximum extent feasible, utilize alternative fuels, electric batteries, or other alternatives / non-diesel fuels (e.g., propane or compressed natural gas (CNG)) that do not emit diesel particulate matter; the Mitigation Measure also requires that a maximum of 50 percent of the total Project electrical consumption be provided by onsite solar photovoltaic (PV) panels or other onsite renewable sources. Through adoption of Mitigation Measure GHG-1, the City is ensuring compliance with the City's CAP and current best practices in construction operations that will realize a 10 percent reduction in GHG emissions. (DEIR p. 4.8-13). Mitigation Measure GHG-1 specifies detailed measures the Project will implement to achieve compliance with the CAP GHG emissions reduction requirements. Mitigation Measure GHG-1 addresses enforceability by stating that the Applicant shall demonstrate compliance with the mitigation measures prior to the issuance of Building Permits. (DEIR p. 4.8-20). Therefore, mitigation is not vague, deferred, or unenforceable.

As to the commenter's assertion that the DEIR provides no project-specific evidence of quantitative analysis to demonstrate how Project GHG emissions will be less than significant, the CEQA guidelines specify that a lead agency shall have the discretion to determine, in the context of a particular project, whether to quantify GHG emissions or rely on a qualitative analysis, such as a plan for the reduction of GHG emissions. (14 CCR 15064.4(a)). CEQA also specifies that a lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project complies with a qualified plan or mitigation program. (14 CCR 15183.5(b)). Section 4.8 of the DEIR provides substantial quantitative evidence of the Project's compliance with applicable CAP requirements. (DEIR p. 4.8-11). Specifically, Table 4.8-3 addresses Project-related GHG annual emissions and Table 4.8-4 details the measures that the Project will implement to demonstrate consistency with CAP GHG emissions reduction requirements. (DEIR p. 4.8-12 – 4.8-13).

In relation to the commenter's assertion that the DEIR does not demonstrate compliance with the CAP, the DEIR establishes mitigation measures that demonstrate compliance with CAP GHG emission reduction requirements. Regarding construction emissions, the CAP requires the Applicant to "prepare a construction emissions reduction plan that demonstrates the utilization of current best practices in construction operations that will realize a 10 percent reduction in GHG emissions." (CAP p. A-11). To satisfy this requirement, the DEIR implements Mitigation Measure GHG-1, which includes many of the best practices recommended in the CAP, including alternative fuel and electric power requirements for construction equipment and transportation management strategies for construction workers. (DEIR p. 4.8-20). The DEIR concludes that the mitigation measures implemented would reduce fossil fuel

consumption requirements, leading to a corresponding reduction in GHG emissions of at least 10%. (DEIR p. 4.8-13).

In addition, as discussed in the Attachment B2 of the FEIR and the GHG analysis in Section 10.8 of Appendix B1, *Air Quality, Energy, Greenhouse Gas Emissions and Health Risk Assessment*, the Draft EIR was prepared pursuant to the City's CAP and clearly states that the proposed Project's GHG emissions were quantified for informational purposes only and determination of significance has been based on a determination of whether the Project has implemented all applicable development standards presented in the CAP Development Review Checklist. It should be noted that the CAP provides four compliance paths that either include implementation of all applicable development standards provided in the CAP Development Review Checklist or meet the City's performance targets. Therefore, meeting the City's performance targets that are set for new residential projects, is not applicable to the proposed Project. As such, no changes regarding this comment have been made to the Project's AQ/GHG/HRA Report or the DEIR.

13-4 The commenter opines that the CAP is not a qualified streamlining instrument under CEQA Guidelines 15183.5(b)(1). The commenter cites and summarizes Section 15183.5(b)(1)(A), Section 15183.5(b)(1)(B), and Section 15183.5(b)(1)(D) and states that, since in their opinion the Coachella CAP does not meet the criteria in the CEQA Guidelines requirement to allow it to be a document from which the City can streamline a project's analysis, that it is erroneous to streamline under CEQA Guidelines § 15183.5(b) because the CAP is not a qualified reduction plan under the CEQA Guidelines.

The commenter's assertion that the CAP is not a qualified plan for the reduction of GHG emissions is not supported by substantial evidence or legal authorities. As the City specifically developed the CAP to be consistent with the criteria set forth in 14 CCR 15183.5(b)(1). The commenter states that CEQA Guidelines § 15183.5(b) "requires" that a qualifying plan "must" meet the criteria listed in 14 CCR 15183.5(b)(1). This is not accurate, as the CEQA Guidelines state that a plan for the reduction of greenhouse gas emissions "should" meet the listed criteria. (14 CCR 15183.5(b)(1)). Therefore, CEQA allows some flexibility regarding the extent to which public agencies implement plan requirements.

The commenter's first assertion, that the CAP is not a qualifying plan because the CAP relies on a 2010 GHG inventory and thus does not adequately quantify GHG emissions as stated in 14 CCR 15183.5(b)(1)(A), is not supported by substantial evidence. The CAP states that 2010 was utilized as the baseline year because it was the year of the most reasonably complete data set available for the analysis. (CAP p. 21, footnote 37). The CAP also states that the City experienced very little growth between 2010 and 2013 and the inventory data utilized in the CAP is a proximate estimate of 2013 activity data. (*Id.*). Therefore, the CAP utilizes a GHG inventory estimated to be accurate as of the year before the CAP was drafted. As to the commenter's note that the inventory was 15 years outdated when being relied upon for decision making for the Project, 14 CCR 15183.5(b)(1) does not require that a CAP be approved or updated within a certain period of time prior to project review. Section 3 of the CAP quantifies GHG emissions, both existing and projected over a specified time period, resulting from activities within a defined geographic area, in accordance with 14 CCR 15183.5(b)(1)(A).

(*see* CAP p. 27: the CAP quantifies community GHG emissions for 2005, 2010, 2020, and 2035). Therefore, the CAP satisfies the criteria in 14 CCR 15183.5(b)(1)(A).

The commenter's second assertion that CAP is insufficient under 14 CCR 15183.5(b)(1)(B) because the CAP does not connect emissions reduction targets to an established GHG level for when a project's impacts become cumulatively considerable, is not supported by substantial evidence or legal authorities. CEQA does not require an EIR evaluation under 14 CCR 15183.5(b) streamlining provisions to connect project-specific GHG emissions to CAP emissions reduction targets. 14 CCR 15183.5(b)(1)(B) specifies that the emission reduction plan should establish a level, based on substantial evidence, below which the contribution to greenhouse gas emissions from activities covered by the plan would not be cumulatively considerable. The commenter correctly notes that the CAP sets GHG emission reductions targets for 2020 and 2035. (CAP p. 28-29). In accordance with 14 CCR 15183.5(b)(1)(B), these are the levels below which the contribution to GHG emissions from activities covered by the CAP would not be cumulatively considerable. CEQA does not require projects evaluated under 14 CCR 15183.5(b) to "connect" project-specific GHG emissions to CAP targets. Instead, a determination that a project is compliant with the applicable CAP requirements, as specified in the Climate Ready Development Review Checklist, is sufficient to satisfy the project's cumulative impact analysis. (*See* 14 CCR 15183.5(b) and CAP p. 70). The California Supreme Court has supported this methodology: "evaluating the significance of a residential or mixed-use project's greenhouse gas emissions by their effect on the state's efforts to meet it long-term goals makes at least as much sense as measuring them against an absolute numerical threshold." (*Center for Biological Diversity v. Department of Fish and Wildlife* (2016) 62 Cal.4th 204, 220-221).

The commenter's assertion that the CAP does not meet the criteria specified in 14 CCR 15183.5(b)(1)(B) because the CAP's GHG emissions reduction targets "are not compliant with SB 32 or aligned with any of the more recent climate goals," is not supported by substantial evidence. CEQA does not automatically invalidate a previously adopted GHG reduction plan any time a subsequent state climate goal is established. Instead, CEQA requires that an agency's analysis must reasonably reflect evolving scientific knowledge and state regulatory schemes. (14 CCR 15064.4(b)). To that end, in determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable. (14 CCR 15064.4(b)(3)). SB 32, which was signed into law on September 8, 2016, requires CARB to ensure that statewide GHG emissions are reduced to 40% below the 1990 level by 2030. The CAP sets an aggressive emissions reduction target of 49% below 2010 per service population emissions by 2035, which was established to meet a target of 80% below 1990 levels by 2050. (CAP p. 28-29). The commenter presents no evidence to suggest why the CAP target, which aligns with a reduction of 80% below 1990 levels by 2050, is not consistent with the SB 32 goal of 40% below 1990 levels by 2030 or, more broadly, with a strategy to address incremental contribution to climate change. To the contrary, the reductions analyzed in the DEIR substantially exceed the SB 32 goal. Furthermore, the CEQA guidelines state that, when determining the significance of impacts from GHG emissions, a lead agency should consider

the "extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions (see, e.g., section 15183.5(b))." (14 CCR 15064.4(b)(3)). SB 32 and other "more recent climate goals" are not regulations or requirements adopted to implement a plan. Instead, such goals are statements of policies and objectives. (*See Center for Biological Diversity v. Department of Fish and Wildlife* (2016) 62 Cal.4th 204, 222-223). Neither SB 32 nor the 2022 Scoping Plan establish regulations implementing the Legislature's statewide goals for reducing GHG emissions for specific projects within the meaning of 14 CCR 15064.4(b)(3). (*Id*.). Therefore, the CAP is not invalid for streamlining purposes simply because it predates the existence of certain non-regulatory policies or goals.

Finally, the commenter's assertion that the CAP is not a qualified plan for the reduction of GHG emissions and streamlining *and* should therefore not be used because the CAP contains no analysis or substantial evidence showing that the adoption of specified measures will reduce the City's GHG emissions to a particular level on a city-wide or project level basis, is not supported by the substantial evidence contained in the EIR. The CEQA guidelines allow a lead agency the discretion to determine, in the context of a particular project, whether to rely on a project-specific quantitative analysis of GHG emissions or to rely on emissions reduction plan-based standards. (14 CCR 15064.4(a)). Although the CEQA Guidelines state that a lead agency should consider the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting, section 15064.4 does not mandate the use of any specific method or numerical threshold to measure the significance of GHG emissions. (*See Center for Biological Diversity v. Department of Fish and Wildlife* (2016) 62 Cal.4th 204, 221). Here, the CAP adopts specific Climate-Ready Development Standards that were chosen because they directly implement the policies of the City's GHG reduction plan. (CAP p. 70). As referenced in Appendix B of the DEIR and the City's CAP, the Climate-Ready Development Standards describe project design features and intent as well as the development standard required to meet that intent.[4] Chapter 4 of the CAP discusses emission reduction strategies and provides extensive analysis and substantial evidence to support the GHG emissions reduction benefits of the specified Climate-Ready Development Standards. (CAP p. 31-56). Therefore, the CAP is consistent with the criteria set forth in 14 CCR 15183.5(b)(1)(D).

In addition as discussed in Attachment B2 of this FEIR, the City's CAP meets the requirements of Section 15183.5(b), since the CAP has (A) quantified GHG emissions for both existing and projected targets for years 2020 and 2035; (B) established a level, based on substantial evidence, below which the contribution to GHG would not be cumulatively considerable; (C) identified and analyzed the GHG emissions, segmented by Sector and Source within the City; (D) specifies a group of measures in the CAP Development Review Checklist that is to be implemented on a project basis that would collectively achieve the specified emissions levels; (E) establishes mechanisms to monitor the Plan's progress toward achieving the levels; (F) the CAP was adopted by the City Council in June 2014, after a public review process.

[4] Planning Division, and Vista Environmental, Coachella Airport Business Park Project Air Quality, Energy, Greenhouse Gas Emissions, and Health Risk Assessment Impact Analysis § (n.d.); Planning Division, Climate Action Plan § (2015), pages 68-70. https://cityofcoachellageneralplanupdate.weebly.com/uploads/1/2/1/2/12129446/climate_action_plan.pdf.

Although the CAP was prepared before the 2017 and 2022 Scoping Plans, both of these Plans and the CAP were prepared based on the ultimate goals provided in AB 32 of an 80% reduction in GHG emissions below 1990 levels by 2050. Furthermore, the Service Population targets are for residential developments and are not applicable to a business park. The DEIR includes adoption of Mitigation Measure GHG-1, which would result in a 10 percent reduction in GHG emissions. Furthermore, as cited in DEIR Section 4.8, pages 4.8-82 through 4.8.92, the Project would be consistent with the City's CAP, which includes several quantifiable reductions in GHG emissions through incorporating elements such as Passive Solar Design, the use of Alternative Fuels for construction equipment, and implementation of a traffic demand program for construction contractors with 20 or more employees, resulting in a 1.6 percent reduction in GHG emissions. As such, no changes in regard to this comment have been made to the DEIR.

13-5 The commenter states that the Project would have a significant cumulative impact that would not be resolved by CAP compliance, and that the City's determination that MM GHG-1 would reduce the Project's GHG impact to a less-than-significant level was erroneous and not supported by substantial evidence. Refer to Responses 13-3 and 13-4, above.

13-6 The commenter repeats their assertion that the CAP is not a qualified streamlining instrument under CEQA Guidelines 15183.5(b)(1). Refer to Response 13-4, above.

13-7 The commenter repeats similar comments made above regarding MM GHG-1. The commenter states that the Project's annual per-service population GHG emissions would be 10.84, and that the CAP aims to reduce GHG emissions per service population (sp) to 7 MTCO2e /sp by 2020 and 4.2 MTCO2e/sp by 2035. The commenter asserts that the Project would exceed both targets, and the DEIR makes no showing that the per- service-population metric would be reduced through the implementation of MM GHG-1.

As detailed above in Responses 13-3 and 13-4, the CAP provides four compliance paths and the DEIR is based on implementation of all applicable development standards provided in the CAP Development Review Checklist. As such, the Service Population metric is not applicable to the proposed Project.

13-8 The commenter opines that the DEIR's claim that MM GHG-1 would allow the Project to achieve a 10% reduction in construction GHG emissions, is not supported by substantial evidence and relies on unsubstantiated assumptions, and that the off-road equipment required by MM GHG-1 would not result in an 8.4% reduction in construction GHG emissions because alternative fuels is not the same as requiring zero emission equipment.

The commenter misinterprets the DEIR's consistency analysis for MM GHG-1. MM GHG-1 requires more than the use of alternative fuels for construction equipment. As the DEIR states, MM GHG-1 requires the Project Applicant to prepare a Construction Emissions Reduction plan that demonstrates the use of multiple best practices to realize a 10% reduction in GHG emissions from construction equipment and transportation demand management strategies. (DEIR p. 4.8-13). In addition to the use of alternative fuels for construction equipment, these best practices include the use of electric or hybrid construction equipment and construction equipment idling limits. (DEIR p. 4.8-13). The DEIR states that the Project shall install

temporary power poles to enable the restriction of gas-powered construction equipment and other construction best practices to reduce GHG emissions. (DEIR p. 4.8-13). The consistency analysis for MM GHG-1 states that the combination of these measures, and not the use of alternative fuels alone, will result in a reduction in construction related GHG emissions of 10% (DEIR p. 4.8-13).

As discussed in Attachment B2 of the FEIR, and as shown in the Energy Use Calculations in Table L of Appendix B1 of the DEIR – the fuel used by the generators, welders, and air compressors, all of which are stationary equipment that would be required to be electrified and run off of the temporary power poles, represent 8.4% of the total off-road equipment fuel used during construction of the proposed Project. The remaining 1.6% reduction would be achieved through implementation of the Transportation Demand Management Program. Although, the commenter is correct that there are several other sources of GHG emissions during construction, they are negligible when compared to GHG emissions from petroleum fuel use and the Development Standards for this measure are limited to use of alternative powered equipment as well as implementation of TDM plan for construction workers. As such, the Project construction activities were correctly determined to be consistent with the City's CAP and no changes in regard to this comment have been made to the DEIR.

13-9 The commenter states that the 1.6% reduction through a traffic demand plan (TDM) lacks detailed analysis or enforcement mechanisms to ensure the TDM is effective and that, overall, the DEIR did not provide sufficient information to demonstrate that the Project, even with MM GHG-1, would achieve the CAP's goals.

DEIR Table 4.8-4 outlines the Project's consistency with the CAP Development Review Checklist, including Transportation Demand Management (TDM) strategies, which are addressed on p. 4.8-13 and p. 4.8-17. The stated 1.6% reduction in emissions is derived from the Project's adoption of TDM program elements related to the use of public or employer-provided transit, vanpools, or other similar demand management programs, which will reduce emissions associated with automobile trip generation related to employment. Reductions in Project-related operational emissions were calculated by the VMT Project Analysis on page 57 of the Coachella Airport Business Park Final TIA and VMT Analysis (Appendix I of the DEIR) and Section 4.1.2 (on page 46) of the Coachella Airport Business Park Detailed CalEEMod report (Appendix B of the DEIR). As stated in Response 13-3, Mitigation Measure GHG-1 addresses enforceability by stating that the Applicant shall demonstrate compliance with the mitigation measures, including TDM programs, prior to the issuance of Building Permits. (DEIR p. 4.8-20). Regarding the commenter's assertion that the DEIR did not provide sufficient information to demonstrate that the Project would achieve the CAP's goals, refer to Response 13-3.

The CAP has provided substantial evidence that shows implementation of TDM deployment Citywide would reduce GHG emissions by approximately 5%.[5] The DEIR includes a Project-specific analysis that analyzes the operational emissions based upon a very conservative

[5] Planning Division, Climate Action Plan § (2015). Page 55.
https://cityofcoachellageneralplanupdate.weebly.com/uploads/1/2/1/2/12129446/climate_action_plan.pdf.

analysis, which includes a VMT analysis based upon the ITE category for a Business Park land use. In addition, the DEIR incorporates information showing the Project will result in a lesser reduction in operational emissions than previously described in the City's General Plan Programmatic EIR and CAP. This analysis is consistent with Public Resources Code §21083.3, resulting in a more conservative reduction of 1.6% for implementing a TDM plan. As such, no changes regarding this comment have been made to the DEIR.

13-10 The commenter states that the DEIR's analysis of consistency with applicable GHG reduction plans ignores the Project's conflicts with the 2022 Scoping Plan and other applicable plans. The commenter states the Project is inconsistent with the 2022 CARB Scoping Plan's key targets for electrification and decarbonization.

The DEIR addresses the 2022 Scoping Plan in detail on p. 4.8-6. In that discussion, the DEIR addresses the State's goals of decarbonization and reducing fossil fuel dependency by focusing on clean energy options, both of which necessarily involve electrification. For example, the DEIR states the following:

> "CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality on November 16, 2022. The 2022 Scoping Plan lays out the sector-by-sector roadmap for California, the world's fifth largest economy, to achieve carbon neutrality by 2045 or earlier, outlining a technologically feasible, cost-effective, and equity-focused path to achieve the state's climate target. The Plan addresses recent legislation and direction from Governor Newsom and extends and expands upon earlier plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The Plan also takes the unprecedented step of adding carbon neutrality as a science-based guide and touchstone for California's climate work. Specifically, this plan:
>
> - Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
> - Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 and a reduction in anthropogenic emissions by 85 percent below 1990 levels.
> - Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
> - Integrates equity and protecting California's most impacted communities as driving principles throughout the document.
> - Incorporates the contribution of natural and working lands (NWL) to the state's GHG emissions, as well as their role in achieving carbon neutrality.
> - Relies on the most up-to-date science, including the need to deploy all viable tools to address the existential threat that climate change presents, including carbon capture and sequestration, as well as direct air capture.
> - Evaluates the substantial health and economic benefits of taking action.
> - Identifies key implementation actions to ensure success."

The DEIR adopts mitigation measure MM GHG-1, which specifies requirements to electrify and decarbonize construction equipment operation and reduce diesel fuel usage as discussed in Response 13-8. Of note, the 2022 Scoping Plan provides a statewide roadmap for California to achieve carbon neutrality by 2045 or earlier, but it does not create any new project-level laws or regulations with which the Project might conflict. (See 2022 Scoping Plan p. 1). Although new regulations may be forthcoming, CARB has not yet adopted any statewide regulations to implement the 2022 Scoping Plan's electrifying industrial manufacturing energy demand goal of 50% by 2045.

As regards Executive Order B-55-18, the applicable significance threshold is whether the Project would conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases. EO B-55-18 is not a plan, policy, or regulation with which the Project must comply; instead, it is an order to establish a statewide goal to achieve carbon neutrality no later than 2045. (*see Center for Biological Diversity v. Department of Fish and Wildlife* (2016) 62 Cal.4th 204, 222). The 2022 Scoping Plan is a plan for reducing GHG emissions that adopts a roadmap for California to achieve EO B-55-18's carbon neutrality goal. The DEIR addresses the 2022 Scoping Plan on p. 4.8-6. However, as discussed above, the 2022 Scoping Plan has not yet created any new project-level laws or regulations with which the Project would conflict. Regarding commenter's assertion that the DEIR ignores the 2017 Scoping Plan, refer to Response 13-3.

The 2017 and 2022 Scoping Plans are discussed in several places throughout the AQ/GHG/HRA Report, including Sections 3.2, 6.3, and 6.4. Also, as detailed above in Response 13-4, the CAP was prepared to meet the overall GHG reduction goals provided in the 2017 and 2022 Scoping Plans. As such, no changes in regard to this comment have been made to the DEIR.

13-11 The commenter asserts that the Project claims it is in compliance with transportation sector policies when it is actually relying on vehicle manufacturer compliance to indirectly satisfy the 2022 Scoping Plan requirements. The commenter further asserts that the finding of less-than-significant impacts after mitigation improperly relies on the State.

The DEIR states that the proposed Project would be required to comply with applicable current and future transportation sector policies through vehicle manufacturer compliance, including Advanced Clean Cars II, Advanced Clean Trucks, Advanced Clean Fleets, and other regulations. (DEIR p. 4.8-20). Many of these regulations, such as Advanced Clean Cars II and Advanced Clean Trucks, are vehicle manufacturer-specific regulations with no applicable project-level requirements. Others, such as Advanced Clean Fleets, have requirements applicable to both vehicle manufacturers and private fleets. However, CARB is currently in the process of repealing the parts of the Advanced Clean Fleets regulation that apply to private fleets.[6] To the extent CARB adopts and enforces transportation sector policies that specify project-level requirements, the Project will comply with all applicable requirements. Finally,

[6] California Air Resources Board (CARB) – Rulemaking Division. The Proposed Amendments to the Advanced Clean Fleets and Low Carbon Fuel Standards Regulation § (2025). https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2025/acf_lcfs/atta1.pdf.

the CEQA guidelines define mitigation as avoiding, minimizing, rectifying, reducing or eliminating impacts, or compensating for impacts. (14 CCR 15370). Consistency with applicable transportation sector policies does not constitute mitigation or deferred mitigation.

In addition, as discussed in Attachment B2 of this FEIR, CEQA allows for taking credit for emissions reductions provided by State Regulations. As such, no changes in regard to this comment have been made to the DEIR.

13-12 The commenter notes that the Project is likely to rely on diesel fuel in its operations, and therefore potentially conflicts with the 2022 Scoping Plan's objectives. The commenter restates that the DEIR does not specifically address how the Project will comply with the goal of electrifying 50% of industrial energy demand by 2045.

Refer to Response 13-10. In addition, as discussed on page 4.6-3 of the DEIR and in Attachment B2 of the FEIR, the proposed Project will be required to meet the current Title 24 requirements, for each phase of construction, which will likely require any buildings constructed around the year 2045 to be net zero energy. More specifically, the Project, to the maximum extent feasible, shall utilize alternative or non-diesel fuels (e.g., propane or compressed natural gas (CNG), or electrical batteries for all off-road equipment (i.e., non-street legal), such as forklifts and street sweepers used onsite for warehouse operations. The CARB 2022 Scoping Plan, Table 2-1: Actions for the Scoping Plan Scenario: AB 32 GHG Inventory sectors refers to "Other Industrial Manufacturing" without providing additional specifics as to the type and scale of these uses. As the Project would develop a Business Park on the Project Site, the end user tenants have not been identified and assuming the entire Project would include manufacturing uses is not consistent with the Project Goals and Objectives. As such, the Project would utilize these design measures to reduce the level of emissions for the end-user tenants. Therefore, no changes in regard to this comment have been made to the DEIR.

13-13 The commenter repeats their assertion that the DEIR's significance analysis lacks discussion of applicable GHG reduction plans, including the 2017 Scoping Plan. The commenter reiterates that the Project will exceed both the 2030 and 2050 targets.

The 2017 Scoping Plan provides goals and guidance applicable at the statewide level. Regarding the 2017 Scoping Plan's statewide goals for total GHG emissions of 6 MTCO2e/capita by 2030 and 2 MTCO2e/capita by 2050, as cited in the comment, the 2017 Scoping Plan specifically states: "These goals are appropriate for the plan level (city, county, subregional, or regional level, as appropriate), but not for specific individual projects because they include all emissions sectors in the State." (2017 Scoping Plan, p. 99, footnote 241). As stated in the responses above, the DEIR relies on compliance with the CAP to establish consistency with CEQA requirements related to GHG emissions analysis and provides a discussion of quantified GHG emissions for informational purposes only. (DEIR p. 4.8-11).

Please refer to response 13-2. Furthermore, as detailed in Response 13-4 above, the Service Population targets are for residential developments and are not applicable to the proposed Project. As such, no changes in regard to this comment have been made to the DEIR.

13-14 The commenter repeats that the Project neither discusses, nor demonstrates consistency with, Executive Order B-55-18. Executive Order B-55-18 is discussed in Section 6.3 of Appendix B1 of the DEIR. Refer to Response 13-10, above.

13-15 The commenter states that the DEIR impermissibly incorporated mitigation before determining significance. The commenter further states that the DEIR should have concluded that the Project's GHG impact would be significant before analyzing impact with mitigation included.

As detailed above in Response 13-3, the quantification of GHG emissions was provided but not used for determination of significance. Furthermore, Mitigation Measure GHG-1 was prepared to show compliance with the CAP. This is not compression of the analysis, since the unmitigated condition is self-evident, as it consists of not implementing Mitigation Measure GHG-1, which would result in non-compliance with the CAP.

13-16 The commenter asserts that more mitigation would be required to sufficiently reduce the Project's potentially significant impact, requiring a thorough discussion of mitigation measures. The DEIR did not consider any other mitigation to reduce the Project's potentially significant impact, based on the erroneous determination that MM GHG-1 would be sufficient to reduce the Project's significant GHG impact.

The CEQA guidelines specify that a lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project complies with the requirements of a previously adopted plan in accordance with the criteria specified in 14 CCR 15183.5(b)(1). As discussed in Response 13-4, the CAP is such a plan. The CEQA guidelines specify that an environmental document that relies on a greenhouse gas reduction plan for a cumulative impacts analysis must identify those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project. (14 CCR 15183.5(b)(2)). No additional mitigation is required. The CAP confirms this, stating that compliance with the CAP shall be determined based on compliance with the applicable development standards presented in Climate-Ready Development Review Checklist: "A "No" response to an applicable Project Design Feature will require a project be adjusted to comply . . ." (CAP p. A-10). Here, the City has determined that the Project will be compliant with the CAP with the implementation of mitigation measure MM GHG-1.

In addition, as discussed in the DEIR (page 4.8-20 and in Attachment B2 of the FEIR, Mitigation Measure GHG-1 was prepared per the direction of the CAP and utilized the Development Standards provided in the CAP Development Review Checklist to develop the measures included in Mitigation Measure GHG-1. As such, no changes in regard to this comment have been made to the DEIR.

13-17 The commenter repeats previous comments regarding the sufficiency of the Project's proposed mitigation, stating that after requiring operational emission reductions to the maximum feasible extent, the City could require the Applicant to purchase offsets for the

Project's remaining GHG emissions. The commenter continues that there are many GHG mitigation measures that the City failed to consider.

CEQA does not require maximum feasible mitigation, even for a finding of significant cumulative impacts, where the lead agency determines that the adopted mitigation is effective to reduce the impact to a less-than-significant level. As a general rule, CEQA does not specify the types of mitigation that should be adopted for a project, leaving that decision to the lead agency. (See *Goleta Union Sch. Dist. v Regents of Univ. of Cal.* (1995) 37 Cal.App.4th 1025, 1030).

In addition, as discussed in Attachment B2 of this FEIR, the commenter is not correct as the DEIR found a significant GHG impact and provided Mitigation Measure GHG-1 to reduce the GHG impact to less than significant levels. As detailed above in Response 13-16, the reduction measures included in Mitigation Measure GHG-1 were developed from the CAP Checklist. As such, no changes in regard to this comment have been made to the DEIR.

13-18 The commenter concludes by restating the assertions discussed above and requesting to be put on the interest list to receive updates about the progress of this Project. Comment noted.

Comment Letter 14 (page 1 of 30)

Comment Letter No. 14

State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director

September 4, 2025
Sent via email

Kendra Reif
Community Development Director
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
kreif@coachella.org

Coachella Airport Business Park (PROJECT)
Draft Environmental Impact Report (DEIR)
SCH# 2023040106

Dear Kendra Reif:

The California Department of Fish and Wildlife (CDFW) received a Notice of Availability of a DEIR from the City of Coachella (City) for the Project pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.[1] 14-1

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the State. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on Projects and related activities that have the potential to adversely affect fish and wildlife resources. 14-2

[1]CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Conserving California's Wildlife Since 1870

Comment Letter 14 (page 2 of 30)

CDFW is also submitting comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code. 14-2 Cont.

PROJECT DESCRIPTION SUMMARY

Proponent: Empire Airport Co. LLC

Objective: The Project proposes the development of a 48-acre business park and a substation (electricity transmission). The business park includes large and small warehouses, small businesses, restaurants, self-storage buildings, among other commercial and retail uses. The Project proposes commercial cannabis operations, including cannabis cultivation and processing, within large warehouses with cooling towers. The Project would include the development of associated driveways, landscaping, access roads, and four retention basins aligned adjacent to the Whitewater River. 14-3

Landscaping would include the use of native plants and other drought-tolerant plants. The Project proposes new artificial nighttime lighting for security, walkways and streets, signage, and a freeway-oriented electronic billboard.

Location: The Project site is located on the northwest corner of State Highway 86 and Airport Boulevard and east of the Whitewater River in the City of Coachella, in the County of Riverside. The Project site includes two separate development areas, including the Coachella Airport Business Park development area in the southern portion and a substation development area in the northern portion of the Project site. The Project Area is within Assessor's Parcel Numbers 763-330-013, 763-330-018, and 763-330-029. The Project area is within the boundaries of the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP) area, outside of a CVMSHCP Conservation Area.

Timeframe: Project anticipates starting construction of the Project in 2025.

COMMENTS AND RECOMMENDATIONS

CDFW has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (i.e., biological resources). CDFW offers the comments and recommendations below to assist the City in adequately identifying and/or mitigating the 14-4

Comment Letter 14 (page 3 of 30)

Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. The DEIR has not adequately identified and disclosed the Project's impacts (i.e., direct, indirect, and cumulative) on biological resources and whether those impacts are reduced to less than significant.

CDFW's comments and recommendations on the DEIR are explained in greater detail below and summarized here. CDFW is concerned that the DEIR does not adequately identify or mitigate the Project's significant, or potentially significant, impacts to biological resources. CDFW also concludes that the DEIR lacks sufficient information to facilitate a meaningful review by CDFW, including a complete and accurate assessment of biological resources on the Project site. CDFW requests that additional information and analyses be added to a revised DEIR, along with avoidance, minimization, and mitigation measures that avoid or reduce impacts to less than significant. 14-4 Cont.

Existing Environmental Setting

Compliance with CEQA is predicated on a complete and accurate description of the environmental setting that may be affected by the proposed Project. CDFW is concerned that the assessment of the existing environmental setting has not been adequately analyzed in the DEIR. CDFW is concerned that without a complete and accurate description of the existing environmental setting, the DEIR may provide an incomplete analysis of Project-related environmental impacts. 14-5

The DEIR lacks a complete assessment of biological resources associated with nesting birds, burrowing owls, and bats within the Project site and surrounding area. A complete and accurate assessment of the environmental setting and Project-related impacts to biological resources is needed to both identify appropriate avoidance, minimization, and mitigation measures and demonstrate that these measures reduce Project impacts to less than significant.

Mitigation Measures

CEQA requires that a DEIR include mitigation measures to avoid or reduce significant impacts. CDFW is concerned that the mitigation measures proposed in the DEIR are not adequate to avoid or reduce impacts to biological resources to below a level of significance. To support the City in ensuring that Project impacts to biological resources are reduced to less than significant, CDFW recommends adding mitigation measures for an assessment of biological resources, artificial nighttime lighting, construction noise, and pesticides associated with cannabis cultivation, as well as revising the mitigation measures for nesting birds, burrowing owl, and bats. 14-6

1) Biological Resources

Section 15125(c) of the CEQA Guidelines states that knowledge of the regional setting of a project is critical to the assessment of environmental impacts, that special 14-7

Comment Letter 14 (page 4 of 30)

emphasis should be placed on environmental resources that are rare or unique to the region, and that significant environmental impacts of the proposed project are adequately investigated and discussed.

The DEIR and its supporting documents lack an adequate assessment of biological resources that may occupy the adjacent Whitewater River and the Airport Boulevard bridge. While the Project's Biological Resources Assessment (Biological Assessment), dated February 2024, describes some of the vegetation and land cover types supported within the Whitewater River (pages 17 and 18) and its ability to support local wildlife movement (pages 24 and 29), the DEIR and it supporting documents lack an analysis of the potential for the Airport Boulevard bridge to support nesting birds (see Nesting Birds section) and bats (see Bats section). The DEIR and its supporting documents also lack the results of focused surveys for burrowing owl within the Project site and adjacent Whitewater River (see Burrowing Owl section). Further, the DEIR lacks adequate analyses of the potential direct and indirect impacts of the Project associated with lighting (see Artificial Nighttime Lighting section) and noise (see Construction Noise section) on wildlife using the Whitewater River, including the Airport Boulevard bridge, and the vacant, vegetated parcel to the north. Compliance with CEQA is predicated on a complete and accurate description of the environmental setting that may be affected by the proposed Project. CDFW is concerned that without a complete and accurate description of the existing environmental setting, the DEIR likely provides an incomplete or inaccurate analysis of Project-related environmental impacts and whether those impacts have been mitigated to a level that is less than significant. Also, the single reconnaissance-level field survey on which much of the Biological Assessment was based was conducted on July 7, 2023. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period. 14-7 Cont.

CDFW recommends that the DEIR is revised to include the findings of a complete, *recent* inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511). To be complete, the biological inventory needs to include a buffer area surrounding the Project site including the Whitewater River including the Airport Boulevard bridge. Based on findings from a recent biological inventory, CDFW recommends that the DEIR is revised to include an analysis of direct, indirect, and cumulative impacts to biological resources, including, but not limited to lighting and noise, and identification of appropriate avoidance, minimization, and mitigation measures. Recent and complete information on biological resources and analysis of a Project's direct, indirect, and cumulative impacts support the Lead Agency in developing appropriate avoidance, minimization, and mitigation measures to demonstrate that Project impacts to biological resources are avoided or reduced to below a level of significance.

CDFW recommends that the City of Coachella include in a revised DEIR the following mitigation measure: 14-8

Comment Letter 14 (page 5 of 30)

Mitigation Measure BIO-[A]: Assessment of Biological Resources

Prior to Project construction activities, a complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas, including the Whitewater River, Airport Boulevard bridge, and the vacant, vegetated area to the north, with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511), will be completed. Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. Focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable are required. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to three years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, or if surveys are completed during periods of drought.

14-8 Cont.

Pursuant to the CEQA Guidelines, section 15097(f), CDFW has prepared a draft mitigation monitoring and reporting program (MMRP) in Attachment 1 for revised MM BIO-1, MM BIO-2, and MM BIO-3, as well as CDFW-recommended MM BIO-[A], MM BIO-[B], MM BIO-[C], and MM BIO-[D].

2) Nesting Birds

It is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Fish and Game Code sections 3503, 3503.5, and 3513 afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by Fish and Game Code or any regulation made pursuant thereto. Fish and Game Code section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by Fish and Game Code or any regulation adopted pursuant thereto. Fish and Game Code section 3513 makes it unlawful to take or possess any migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act of 1918, as amended (16 U.S.C. § 703 et seq.).

14-9

With regard to the CVMSHCP, per its associated Implementing Agreement (IA) and Permits from CDFW and the U.S. Fish and Wildlife Service (the Wildlife Agencies),

Comment Letter 14 (page 6 of 30)

Take associated with Covered Activities will not be in violation of the Migratory Bird Treaty Act and will be consistent with Fish and Game Code sections 3503 and 3503.5; therefore, all Covered Activities within and outside Conservation Areas must undertake measures to avoid the take of individuals, nests, and eggs of nesting birds. The CVMSHCP includes a general conservation measure that applies to all bird species to avoid impacts to habitat for nesting birds during the nesting season (CVMSHCP Section 9.7). Per IA Section 13.2, the City is obligated to ensure the projects to which it confers Take Authorization under the CVMSHCP comply with all terms and requirements of the CVMSHCP, the Wildlife Agencies' Permits that create the CVMSHCP, and the IA, including compliance with laws that protect nesting birds.

Page 4.4.24 of the DEIR indicates that "nesting birds and raptors have the potential to nest in shrubs and trees and/or burrow on bare ground throughout and near the Study Area." CDFW concurs that the Project site and surrounding areas, including the Whitewater River, contain suitable habitat for birds that nest on the ground and in shrubs and trees. The DEIR includes a Mitigation Measure BIO-1 for nesting birds, indicating that "to avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within seven days prior to ground disturbance." CDFW considers the mitigation measure for nesting birds in the DEIR to be inadequate in scope and timing to reduce impacts to nesting birds to a level less than significant. In alignment with the CVMSHCP's general conservation measure for nesting birds (CVMSHCP Section 9.7), CDFW recommends Project construction activities are conducted outside of the peak nesting bird season. CDFW also recommends the completion of nesting bird surveys *regardless* of the time of year to ensure that impacts to nesting birds and their nests and eggs are avoided. The timing of the nesting season varies greatly depending on several factors, such as bird species, weather conditions in any given year, and long-term climate changes (e.g., drought, warming, etc.). In response to warming, birds have been reported to breed earlier, thereby reducing temperatures that nests are exposed to during breeding and tracking shifts in availability of resources (Socolar et al., 2017[2]). CDFW staff have observed that climate change conditions may result in the nesting bird season occurring earlier and later in the year than historical nesting season dates. CDFW recommends that disturbance of occupied nests of migratory birds and raptors within the Project site and surrounding area be avoided any time birds are nesting on-site. CDFW therefore recommends the completion of nesting bird surveys *regardless of*

14-9 Cont.

[2] Socolar JB, Epanchin PN, Beissinger SR and Tingley MW (2017). Phenological shifts conserve thermal niches. Proceedings of the National Academy of Sciences 114(49): 12976-12981.

Comment Letter 14 (page 7 of 30)

the time of year to ensure compliance with all applicable laws pertaining to nesting and migratory birds. 14-9 Cont.

Additionally, the DEIR lacks an adequate discussion of the Project's potential direct, indirect, and cumulative impacts to nesting birds located within the Project site and within the adjacent Whitewater River including the Airport Boulevard bridge, which may provide suitable habitat for cliff swallows (*Petrochelidon pyrrhonota*). Cliff swallows can build nests within a week, and eggs can be laid before nests are completely finished. To avoid or reduce impacts to a level less than significant, CDFW recommends the DEIR is revised to include an analysis of impacts to nesting birds in the Whitewater River, including the Airport Boulevard bridge, and appropriate avoidance, minimization, and mitigation measures. For example, the Project may result in direct and indirect impacts to nesting birds occupying the bed, bank, and channel of the Whitewater River and the Airport Boulevard bridge through the introduction of artificial nighttime lighting during Project construction and/or long-term operations (see Artificial Nighttime Lighting section below), as well as noise associated with Project construction (see Construction Noise section below). 14-10

CDFW recommends that disturbance of occupied nests of migratory birds and raptors within the Project site and surrounding area be avoided **any time birds are nesting on-site.** CDFW recommends the City include a revised Mitigation Measure BIO-1 in a revised DEIR as follows, with additions in **bold** and removals in ~~strikethrough~~:

Mitigation Measure BIO-1: Nesting Birds

To the greatest extent feasible, the Project will avoid construction activities during the peak nesting season (February 1 through September 15). Regardless of the time of year, nesting bird surveys shall be performed by a qualified avian biologist no more than 3 days prior to vegetation removal or ground-disturbing activities. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified avian biologist will make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If active nests are found during the pre-construction nesting bird surveys, a qualified biologist shall establish an appropriate nest buffer to be marked on the ground. Nest buffers are species specific and shall be at least 300 feet for passerines and 500 feet for raptors. A smaller or larger buffer may be determined by the qualified biologist familiar with the nesting phenology of the nesting species and based on nest and buffer monitoring results. Construction activities may not occur inside the established buffers, which shall remain on-site until a qualified biologist determines the young have fledged or the nest is no longer active. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. ~~Prior to issuance of the project's grading~~ 14-11

Comment Letter 14 (page 8 of 30)

~~permit, the following measures shall be implemented: To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a preconstruction nesting bird survey is conducted within seven days prior to ground disturbance. A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within seven days prior to ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to ensure that direct and indirect effects to nesting birds are avoided. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still contain potential nesting habitat. No parking, storage of materials, or construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds.~~

14-11 Cont.

3) Burrowing Owl

On October 10, 2024, the Fish and Game Commission determined that western burrowing owl warrants protection as a candidate species under the California Endangered Species Act (Fish & G. Code, § 2050 et seq.). During the candidacy period, western burrowing owl will be afforded the same protection as threatened and endangered species under CESA. If Project activities, including relocation, could result in take, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained prior to commencement of Project activities.

14-12

Take of individual burrowing owls and their nests or eggs is defined by Fish and Game Code section 86, and prohibited by sections 3503, 3503.5, and 3513. Take is defined in Fish and Game Code section 86 as "hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill." Fish and Game Code sections 3503, 3503.5, and 3513 afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by Fish and Game Code or any regulation made pursuant thereto. Fish and Game Code section 3503.5 makes it unlawful to take, possess, or destroy any birds in

Comment Letter 14 (page 9 of 30)

the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by Fish and Game Code or any regulation adopted pursuant thereto. Fish and Game Code section 3513 makes it unlawful to take or possess any migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act of 1918, as amended (16 U.S.C. § 703 et seq.).

With regard to the CVMSHCP, the CDFW Natural Community Conservation Plan (NCCP) Permit #2835-2008-001-06 does not provide Take Authorization for burrowing owl individuals, nests, or eggs. To the contrary, section 3.5.6 of the NCCP Permit states burrowing owl "pairs or individuals will not be Taken" and reiterates that the "HCP/NCCP does not authorize Take of [burrowing owl] nests [or] eggs[.]" Therefore, throughout the CVMSHCP area—both within and without Conservation Areas—Permittees must ensure that activities occurring within their jurisdictions do not result in the take, possession, or destruction of burrowing owl individuals, nests, or eggs. Any activity occurring within the CVMSHCP area that results in the take of burrowing owl individuals, nests, or eggs would be unlawful and would not be a Covered Activity under the CVMSHCP. Per IA Section 13.2, the City is obligated to ensure the projects to which it confers Take Authorization under the CVMSHCP comply with all terms and requirements of the CVMSHCP, the Wildlife Agencies' Permits that create the CVMSHCP, and the IA, including compliance with laws that protect burrowing owls.

14-12 Cont.

Page 21 of the Project's Biological Assessment indicates that "no burrows or sign of burrowing owl was observed during the site reconnaissance. The soils and berms in the Study Area are relatively compacted and there is frequent human activity along the berms via work vehicles, however this species is known to nest in disturbed habitats. If ground squirrels were to colonize and create potential burrows there is a high likelihood that burrowing owls could inhabit the site. Burrowing owls are common along agricultural canals and drains in the Imperial and Coachella valleys. Several observations are documented in the vicinity of the site in similar habitats. Thus, this species has a moderate potential to occur within the scrub habitat throughout the Study Area and particularly the berms along the river." CDFW concurs that the Project site and surrounding area including the Whitewater River contain suitable nesting and foraging habitat for burrowing owl. However, the DEIR and Biological Assessment lack information on the protocols used to conduct the single field survey for burrowing owl and lack survey reports, including, for example, the qualifications of the surveyors, survey methods, a map of suitable burrows or burrow surrogates, etc. The Project's Biological Assessment only indicates that a reconnaissance-level field survey was conducted on July 7, 2023. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period. Given the DEIR's lack of findings from recent focused surveys for burrowing owl following the guidelines in the

Comment Letter 14 (page 10 of 30)

Staff Report on Burrowing Owl Mitigation,[3] the number and locations of suitable and occupied burrows within the Project site and surrounding areas including the Whitewater River are unknown. Given the lack of results from focused surveys for burrowing owl following recommended protocols and the lack of survey reports, CDFW is limited in its ability to provide biological expertise to support the City in reducing impacts to burrowing owl to a level less than significant. CDFW recommends that the DEIR is revised to include the results of four focused surveys for burrowing owl within the Project site and surrounding area, including survey reports[4], following the guidelines outlined in Appendix D of the *Staff Report on Burrowing Owl Mitigation* and to incorporate appropriate avoidance, minimization, and mitigation measures for burrowing owl. Given the presence of suitable habitat for burrowing owl within the Project site and surrounding areas including the Whitewater River, recent, focused surveys are needed to inform appropriate avoidance, minimization, and mitigation measures and support the City in avoiding or reducing impacts to burrowing owl to a level less than significant.

14-12 Cont.

The DEIR includes Mitigation Measure BIO-2, which generally aligns with Required Avoidance, Minimization, and Mitigation measures for burrowing owl under the CVMSHCP (Section 4.4). However, these measures are outdated and do not ensure that impacts to burrowing owl individuals and their nests and eggs will be avoided. To support the City in avoiding or reducing impacts to burrowing owl to a level less than significant, CDFW recommends that Mitigation Measure BIO-2 is revised with the following additions in **bold** and removals in ~~strikethrough~~:

Mitigation Measure BIO-2: Burrowing Owl Focused and Pre-Construction Surveys

14-13

Suitable burrowing owl habitat has been confirmed on the site; therefore, focused burrowing owl surveys shall be conducted by a CVMSHCP-approved Acceptable Biologist in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version) prior to vegetation removal or ground-disturbing activities. If burrowing owls are detected during the focused surveys, the qualified biologist and Project proponent shall begin coordination with CDFW and USFWS immediately, and shall prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW for review and approval prior to commencing Project activities. The Burrowing Owl Plan shall describe proposed

---

[3] California Department of Fish and Game (CDFG). 2012. Staff report on burrowing owl mitigation. State of California, Natural Resources Agency. Available for download at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline

[4] Survey reports should include details on survey methods and results, including, but not limited to, the names and qualifications of surveyor(s); a description of survey methods; a description of the conditions of the project site and recent photos; map(s) showing the locations of all suitable burrows, occupied burrows, burrowing owls, and burrowing owl sign; descriptions of burrowing owl behavior observed; California Natural Diversity Database (CNDDB) field survey forms, etc. For more information, see Appendix D, Survey Reports, of the CDFW 2012 Staff Report on Burrowing Owl Mitigation.

Comment Letter 14 (page 11 of 30)

avoidance and monitoring actions, including measures necessary to avoid take of burrowing owl individuals, nests, and eggs. The Burrowing Owl Plan shall include the number and location of occupied burrow sites (occupied site means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site), acres of burrowing owl habitat that will be impacted, details of site monitoring, and details on proposed buffers and other avoidance measures. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained from CDFW prior to commencement of Project activities.

Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version). Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CVMSHCP-approved Acceptable Biologist following the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation.* If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted. The qualified biologist shall coordinate with CDFW and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW and USFWS for review and approval prior to commencing Project activities. ~~In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, a pre-construction survey will be conducted within 500 feet of the project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not prior to the start of project disturbance activities. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the project may proceed. If either a nesting or escape burrow is occupied, the burrowing owl shall be relocated pursuant to accepted CDFW protocols. A burrow is assumed occupied if records indicate that at least one burrowing owl has been observed occupying a burrow on site during the past three years. If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season (January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g. distance to nearest suitable habitat and presence of burrow) and in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January).~~

14-13 Cont.

Comment Letter 14 (page 12 of 30)

4) Bats

With regard to the suitability of the Project site and surrounding area to support bats, Page F-10 (Appendix F) of the Biological Assessment states that pallid bat (*Antrozous pallidus*), a California Species of Special Concern, "roosts in crevices of rock outcrops, caves, mine tunnels, buildings, *bridges*, and hollows of live and dead trees." Page F-10 of the Biological Assessment also indicates that Townsend's big-eared bat (*Corynorhinus townsendii*), a California Species of Special Concern, roosts in bridges, and "suitable roosting habitat associated [sic] occurs with the Airport Boulevard bridge in the southwest portion of the Study Area." CDFW concurs that the Airport Boulevard bridge may contain crevice habitat (e.g., expansion joints, cavities accessed via weep holes, etc.) that is suitable roosting habitat for these and other bridge-roosting bat species. CDFW also notes that bats have the potential to roost in cliff swallow nests that may be built on the Airport Boulevard bridge, as observed on other nearby bridges that cross the Whitewater River. Importantly, the DEIR and its supporting documents lack an assessment of potential roosting habitat for bats associated with the Airport Boulevard bridge, the findings of focused surveys associated with suitable bat roosting habitat, or an analysis and discussion of potential direct and indirect impacts of the Project, such lighting and noise, and appropriate avoidance, minimization, and mitigation measures. Without survey results and an impact analysis, CDFW is limited in its ability to provide biological expertise to support the City in avoiding or reducing impacts to special-status bats to a level less than significant. To support the City in reducing impacts to bats to a level less than significant, CDFW recommends the DEIR is revised to include the findings of a habitat assessment for suitable bat roosting habitat within the adjacent bridge, appropriate focused surveys (see recommended mitigation measure below), and an impact analysis, along with appropriate avoidance, minimization, and mitigation measures. 14-14

The DEIR and its supporting documents also lack the findings from focused surveys for western yellow bat (*Lasiurus xanthinus*), a California Species of Special Concern and CVMSHCP Covered Species, which have the potential to roost in the grove of fan palms (*Washingtonia* sp.) located just north of the proposed Project. Without findings from a habitat assessment and focused surveys, an impact assessment, and appropriate avoidance, minimization, and mitigation measures, the Project is at risk of impacting bats, such as the abandonment of roosting habitat or a maternity colony, which could result in the take of bats including special-status species.

In particular, CDFW recommends the DEIR is revised to include an analysis of Project impacts associated with artificial nighttime lighting on bats that may use the grove of fan palms and the Airport Boulevard bridge. Numerous studies have shown that direct lighting on roost structures can have profound negative effects on bats roosting in those structures. For example, the complete abandonment (or significant reduction of the bat population) at human-made structures used by roosting bats following the installation of 14-15

Comment Letter 14 (page 13 of 30)

bright artificial lighting has been documented on multiple occasions.[5,6] The intensity of the artificial light near the roost affected the bats' behavior during emergence more than the color of the light,[7] while the loss of bat colonies at structures that were newly illuminated was most apparent when light was applied in such a manner that there was no dark corridor for the bats to exit and return to the roost.[8]

Adverse effects from the illumination of a roost structure by artificial lights extend beyond simply having the potential to discourage further use of that structure by bats. Not only did bright artificial lighting at roosts delay the start of the emergence and/or prolong the duration of bats' emergence from that structure, but also juveniles at roost structures that were illuminated were significantly smaller than juveniles at roost structures that were not illuminated by bright artificial lights[9]. The smaller body masses of juveniles at illuminated sites may be attributed to the delayed emergences at those sites, which not only reduces the total foraging time available for lactating female bats (and later, juveniles learning to hunt) each night, but also causes those bats to miss the peak insect abundance that occurs at dusk, reducing their foraging efficiency. These findings suggest that even if a maternity colony chooses to remain at a newly illuminated roost site, juvenile survivorship is negatively affected, and therefore the reproductive success of those colonies could be severely compromised.

14-15 Cont.

Maintaining darkness at maternity roosts is particularly important because at these types of roosts, aggregations of bats are present consistently over a long period of time, individual bats emerge from predictable locations, and juvenile bats are learning how to

---

[5] Boldogh, S.D., D. Dobrosi, and P. Samu. 2007. The Effects of the Illumination of Buildings on House-Dwelling Bats and Its Conservation Consequences. *Acta Chiropterologica* 9:527–534. doi:10.3161/1733-5329 (2007)9[527:TEOTIO]2.0.C;2.

[6] Rydell, J., J. Eklöf, and S. Sánchez-Navarro. 2017. Age of Enlightenment: Long-Term Effects of Outdoor Aesthetic Lights on Bats in Churches. *Royal Society Open Science* 4(8):161077. http://dx.doi.org/10.1098/rsos.161077.

[7] Downs, N.C., et al. 2003. The Effects of Illuminating the Roost Entrance on the Emergence Behavior of *Pipistrellus pygmaeus*. *Biological Conservation* 111:247–252. doi:10.1016/S0006-3207(02)00298-7

[8] Rydell, J., J. Eklöf, and S. Sánchez-Navarro. 2017. Age of Enlightenment: Long-Term Effects of Outdoor Aesthetic Lights on Bats in Churches. *Royal Society Open Science* 4(8):161077. http://dx.doi.org/10.1098/rsos.161077.

[9] Boldogh, S.D., D. Dobrosi, and P. Samu. 2007. The Effects of the Illumination of Buildings on House-Dwelling Bats and Its Conservation Consequences. *Acta Chiropterologica* 9:527–534. doi:10.3161/1733-5329 (2007)9[527:TEOTIO]2.0.C;2.

Comment Letter 14 (page 14 of 30)

fly.[10,11] Illumination of a maternity roost renders the colony more vulnerable to opportunistic predators such as raptors and owls, and predator-avoidance behaviors such as delayed emergence times reduce their foraging opportunities, thereby lowering juvenile survivorship. Suitable maternity roost sites are a limited resource, and if an alternate roost site is not available, extirpation of the entire colony could occur as a result of artificial lighting. Because bright artificial lighting at roost structures has significant negative effects on bats, including the potential for the extirpation of an entire maternity colony, the addition of lighting near an established roost needs to be considered during the environmental impact review process. CDFW recommends all Project lighting is shielded to ensure no overspill into the Whitewater River and the Airport Boulevard bridge or into the vacant, vegetated area to the north of the Project site where the grove of fan palms is located.

14-15 Cont.

The DEIR includes Mitigation Measure BIO-3 for bats indicating that "a special-status bat species emergence survey shall be conducted if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31)." CDFW considers this measure to be inadequate in scope and timing to avoid or reduce impacts to bats to a level less than significant. For example, the mitigation measure does not address potential impacts to bats that may roost within the Airport Boulevard bridge. Further, multiple focused surveys are needed to determine if a potential roost site is occupied by bats. To reduce impacts to bats to a level less than significant, CDFW recommends the City revise Mitigation Measure BIO-3 with the following additions in **bold** and removals in ~~strikethrough~~:

14-16

Mitigation Measure BIO-3: Surveys for Daytime, Nighttime, Wintering (Hibernacula), and Maternity Roosting Sites for Bats

Prior to the initiation of Project activities within suitable bat roosting habitat—including both the Airport Boulevard bridge and the fan palm grove located north of the Project site—the City and Project proponent shall retain a qualified biologist to conduct focused surveys to determine presence of daytime, nighttime, wintering (hibernacula), and maternity roost sites. Two spring surveys (April through June) and two winter surveys (November through January) shall be performed by qualified biologists. Surveys shall be conducted during favorable weather conditions only. Each survey shall consist of one dusk emergence

---

[10] Rydell, J., J. Eklöf, and S. Sánchez-Navarro. 2017. Age of Enlightenment: Long-Term Effects of Outdoor Aesthetic Lights on Bats in Churches. *Royal Society Open Science* 4(8):161077. http://dx.doi.org/10.1098/rsos.161077.

[11] Voigt, C.C., et al. 2018. *Guidelines for Consideration of Bats in Lighting Projects*. EUROBATS Publication Series No. 8. Bonn, Germany: UNEP/EUROBATS Secretaria.

Comment Letter 14 (page 15 of 30)

survey (start one hour before sunset and last for three hours), followed by one pre-dawn re-entry survey (start one hour before sunrise and last for two hours), and one daytime visual inspection of all potential roosting habitat on the Project site. Surveys shall be conducted within one 24-hour period. Visual inspections shall focus on the identification of bat sign (i.e., individuals, guano, urine staining, corpses, feeding remains, scratch marks and bats squeaking and chattering). Bat detectors, bat call analysis, and visual observation shall be used during all dusk emergence and pre-dawn re-entry surveys.

If active maternity roosts are identified in the work area or 500 feet extending from the work area, Project construction will only occur between October 1 and February 28, outside of the maternity roosting season when young bats are present but are not yet ready to fly out of the roost. Maternity roosts shall not be evicted, excluded, removed, or disturbed. If active hibernacula are identified in the work area or 500 feet extending from the work area, a minimum 500-foot no-work buffer shall be provided around wintering roosts (hibernacula). The buffer shall not be reduced. Project-related construction and activities shall not occur within 500 feet of or directly under or adjacent to hibernacula. Buffers shall be left in place until the end of Project construction and activities or until a qualified bat biologist determines that the hibernacula are no longer active. Project-related construction and activities shall not occur between 30 minutes before sunset and 30 minutes after sunrise. Hibernacula roosts shall not be evicted, excluded, removed, or disturbed during winter torpor (November to mid-February). If avoidance of a hibernacula is not feasible, the Project Biologist will prepare a relocation plan to remove the hibernacula and provide for construction of an alternative bat roost outside of the work area. A bat roost relocation plan shall be submitted for CDFW review and approval prior to construction activities. The qualified biologist will implement the relocation plan and new roost sites shall be in place before the commencement of any ground-disturbing activities that will occur within 500 feet of the hibernacula. New roost sites shall be in place prior to the initiation of Project-related activities to allow enough time for bats to relocate. Removal of roosts will be guided by accepted exclusion and deterrent techniques. The Project proponent shall compensate no less than 2:1 for permanent impacts to roosting habitat.

14-16
Cont.

~~A special-status bat species emergence survey shall be conducted if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat during the maternity season to document the presence of special-status bat species maternal roosting habitat. The emergence survey will be conducted 30 minutes before sunset and last for up to two hours after sunset. Any special-status bat species observed during the maternity roosting season within or adjacent to the Project Area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction.~~

Comment Letter 14 (page 16 of 30)

5) Artificial Nighttime Lighting

Page 4.1-22 of the DEIR states that "implementation of the proposed Project has the potential to generate new sources of daytime glare and nighttime lighting onto and from the Project site from the following sources: glass interposed facades; lighting around and interior to the proposed buildings; internal vehicular circulation; security, walkway and street lighting; signage; and an on-site freeway-oriented electronic billboard that would be visible along SR 86." Regarding construction impacts associated with lighting, page 4.1-23 of the DEIR indicates that the "Project would adhere to the City's construction hour limitations and no nighttime construction would occur. However, there would be nighttime security lighting onsite, which would introduce a new source of nighttime lighting in the Project vicinity on currently vacant land and may result in a significant impact to surrounding receptors. Therefore, in order to minimize any potential light/glare impacts to sensitive uses, mitigation is required. Specifically, as provided for in Mitigation Measures AES-1 and AES-2, construction equipment staging and stockpile areas would be situated on the central and western portions of the Project site, away from Airport Boulevard and the neighboring existing residential uses, and all construction-related lighting would be down-directed toward the work areas and oriented away from adjacent uses and would consist of the minimal wattage necessary to provide safety at the construction site." Regarding operational impacts, page 4.1-23 states that "potential sources of nighttime lighting would include outdoor sources such as lighting for entryways, walkways, security lighting, and vehicle headlights. [...] These nighttime lighting sources could result in impacts related to off-site spill or glare." Mitigation Measures AES-1 and AES-2 focus on shielding lighting impacts from residential and non-residential areas near the Project site.

14-17

The DEIR lacks an analysis of direct, indirect, and cumulative impacts of artificial nighttime lighting, including impacts associated with construction and long-term operations, on biological resources including migratory birds that fly at night, burrowing owls, bats, and other nocturnal and crepuscular wildlife. See the Nesting Bird, Burrowing Owl, and Bats sections above highlighting examples of biological resources that could be negatively impacted by artificial nighttime lighting proposed by the Project. The Project site is located adjacent to the Whitewater River, the Airport Boulevard bridge, and a vacant, vegetated area to the north that includes a grove of fan palms—areas that provide suitable nesting, roosting, foraging, and refugia habitat for birds, migratory birds that fly at night, burrowing owls, bats, and other nocturnal and crepuscular wildlife. The Project's proposed artificial nighttime lighting has the potential to significantly and adversely affect wildlife in these vacant areas adjacent to the Project site. Artificial lighting alters ecological processes including, but not limited to, the temporal niches of species; the repair and recovery of physiological function; the measurement of time through interference with the detection of circadian and lunar and

Comment Letter 14 (page 17 of 30)

seasonal cycles; the detection of resources and natural enemies; and navigation.[12] Many species use photoperiod cues for communication (e.g., bird song[13]), determining when to begin foraging,[14] behavioral thermoregulation,[15] and migration.[16] Phototaxis, a phenomenon that results in attraction and movement towards light, can disorient, entrap, and temporarily blind wildlife species that experience it.[10]

14-17 Cont.

CDFW recommends that the DEIR is revised to include an analysis of the direct, indirect, and cumulative impacts of artificial nighttime lighting associated with Project construction and long-term operations on biological resources, and appropriate avoidance, minimization, and mitigation measures that will reduce impacts to less than significant.

To support the Project in avoiding, minimizing, and mitigating for the Project's direct and indirect impacts of artificial nighttime lighting, CDFW recommends that the City of Coachella include in a revised DEIR the following mitigation measure:

Mitigation Measure BIO-[B]: Artificial Nighttime Lighting

Throughout construction and the lifetime operations of the Project, the City and Project proponent shall eliminate all nonessential lighting throughout the Project area and avoid or limit the use of artificial light at night during the hours of dawn and dusk when many wildlife species are most active. The City and Project proponent shall ensure that all lighting for the Project is fully shielded, cast downward and directed away from surrounding open-space and agricultural areas, reduced in intensity to the greatest extent possible, and does not result in lighting trespass including glare into surrounding areas or upward into the night sky (see the International Dark-Sky Association standards at http://darksky.org/). The City and Project proponent shall ensure use of LED lighting with a correlated color temperature of 3,000 Kelvins or less, proper disposal of hazardous waste, and recycling of lighting that contains toxic compounds with a qualified recycler.

14-18

6) Construction Noise

Construction activities may result in substantial noise through road use, equipment, and

14-19

[12] Gatson, K. J., Bennie, J., Davies, T., Hopkins, J. 2013. The ecological impacts of nighttime light pollution: a mechanistic appraisal. Biological Reviews, 88.4: 912-927.
[13] Miller, M. W. 2006. Apparent effects of light pollution on singing behavior of American robins. The Condor 108:130–139.
[14] Stone, E. L., G. Jones, and S. Harris. 2009. Street lighting disturbs commuting bats. Current Biology 19:1123–1127.
[15] Beiswenger, R. E. 1977. Diet patterns of aggregative behavior in tadpoles of *Bufo americanus*, in relation to light and temperature. Ecology 58:98–108.
[16] Longcore, T., and C. Rich. 2004. Ecological light pollution - Review. Frontiers in Ecology and the Environment 2:191–198.

Comment Letter 14 (page 18 of 30)

other project-related activities. This may adversely affect wildlife species in several ways as wildlife responses to noise can occur at exposure levels of only 55 to 60 decibels (Barber et al. 2009). Anthropogenic noise can disrupt the communication of many wildlife species including frogs, birds, and bats (Sun and Narins 2005, Patricelli and Blickley 2006, Gillam and McCracken 2007, Slabbekoorn and Ripmeester 2008). Noise can also affect predator-prey relationships as many nocturnal animals such as bats and owls primarily use auditory cues (i.e., hearing) to hunt. Additionally, many prey species increase their vigilance behavior when exposed to noise because they need to rely more on visual detection of predators when auditory cues may be masked by noise (Rabin et al. 2006, Quinn et al. 2017). Noise has also been shown to reduce the density of nesting birds (Francis et al. 2009) and cause increased stress that results in decreased immune responses (Kight and Swaddle 2011). 14-19 Cont.

Page 4.4-24 of the DEIR indicates that the noise associated with Project construction activities may result in direct impacts to nesting birds located in close proximity to the Project area. CDFW notes that the Project may result in direct and indirect impacts associated with noise to biological resources occupying the adjacent Whitewater River, the Airport Boulevard bridge, and the vacant, vegetated parcel to the north of the Project area. The DEIR lacks additional analysis and discussion of the potential impacts of noise on biological resources in areas surrounding the Project area. As discussed in the Biological Resources section above, CDFW recommends the DEIR is revised to include an analysis of potential impacts to wildlife associated with construction noise and to incorporate appropriate avoidance, minimization, and mitigation measures. CDFW also recommends that the City include in a revised DEIR the following mitigation measure: 14-20

Mitigation Measure BIO-[C]: Construction Noise

During construction of the Project, the City shall restrict use of equipment to hours least likely to disrupt wildlife (e.g., not at night or in the early morning) and restrict use of generators except for temporary use in emergencies. Power to sites can be provided by solar PV (photovoltaic) systems, cogeneration systems (natural gas generator), small micro-hydroelectric systems, or small wind turbine systems. The City shall ensure use of noise suppression devices such as mufflers or enclosure for generators. Sounds generated from any means must be below the 55-60 dB range within 50-feet from the source.

7) Cannabis-Specific Impacts on Biological Resources

There are many impacts to biological resources associated with cannabis cultivation, whether indoor or outdoor cultivation (i.e., pesticides, fertilizers/imported soils, water pollution, groundwater depletion, vegetation clearing, construction and other development in floodplains, fencing, roads, noise, artificial light, dams and stream crossings, water diversions, and pond construction). CDFW recommends that the City include in the DEIR an analysis of cannabis-specific impacts to biological resources that 14-21

Comment Letter 14 (page 19 of 30)

may result from the Project activities. Design specifications of cultivation structures should be included in the DEIR to demonstrate that the structures are fully enclosed structures with permanent walls/roof and impermeable floors.

Pesticides, Including Fungicides, Herbicides, Insecticides, and Rodenticides

Cannabis cultivation sites (whether indoor or outdoor) often use substantial quantities of pesticides, including fungicides, herbicides, insecticides, and rodenticides. Wildlife, including beneficial arthropods, birds, mammals, amphibians, reptiles, and fish, can be poisoned by pesticides after exposure to a toxic dose through ingestion, inhalation, or dermal contact (Fleischli et al. 2004, Pimentel 2005, Berny 2007). They can also experience secondary poisoning through feeding on animals that have been directly exposed to the pesticides. (Even if used indoors, rodenticides may result in secondary poisoning through ingestion of sickened animals that leave the premises or ingestion of lethally poisoned animals disposed of outside.) Nonlethal doses of pesticides can negatively affect wildlife; pesticides can compromise immune systems, cause hormone imbalances, affect reproduction, and alter growth rates of many wildlife species (Pimentel 2005, Li and Kawada 2006, Relyea and Diecks 2008, Baldwin et al. 2009). 14-21 Cont.

CDFW recommends minimizing use of synthetic pesticides, and, if they are used, to always use them as directed by the manufacturer, including proper storage and disposal. Toxic pesticides should not be used where they may pass into waters of the state, including ephemeral streams, in violation of Fish and Game Code section 5650(6). Anticoagulant rodenticides and rodenticides that incorporate "flavorizers" that make the pesticides appetizing to a variety of species should not be used at cultivation sites. Alternatives to toxic rodenticides may be used to control pest populations at and around cultivation sites, including sanitation (removing food sources like pet food, cleaning up refuse, and securing garbage in sealed containers) and physical barriers (e.g., sealing holes in roofs/walls). Snap traps should not be used outdoors as they pose a hazard to nontarget wildlife. Sticky or glue traps should be avoided altogether; these pose a hazard to nontarget wildlife and result in prolonged/inhumane death. California Department of Pesticide Regulation stipulates that pesticides must certain criteria to be legal for use on cannabis. For details, visit: https://www.cdpr.ca.gov/docs/cannabis/questions.htm; https://www.cdpr.ca.gov/docs/county/cacltrs/penfltrs/penf2015/2015atch/attach1502.pdf.

The DEIR lacks a discussion of whether the Project's cultivation activities will involve pesticides such as fungicides, herbicides, insecticides, and rodenticides. Because of the potential for Project activities to involve the use of pesticides in cannabis cultivation and other cannabis-related activities, CDFW recommends that the City include a mitigation measure conditioning the Project to development of a plan to avoid, minimize, and mitigate the impacts of pesticides used in cannabis cultivation. CDFW recommends that the City add the following mitigation measure to a revised DEIR: 14-22

Mitigation Measure BIO-[D]: Pesticides

Comment Letter 14 (page 20 of 30)

Prior to construction and issuance of any grading permit, the Project proponent shall develop a plan in consultation with the City. The plan shall be reviewed and approved by the City as a condition of project approval. The plan shall identify measures to avoid, minimize, or mitigate the impacts of pesticides used in cannabis cultivation, including fungicides, herbicides, insecticides, and rodenticides. The plan should include, but is not limited to, the following elements: (1) Proper use, storage, and disposal of pesticides, in accordance with manufacturers' directions and warnings. (2) Avoidance of pesticide use where toxic runoff may pass into waters of the State, including ephemeral streams. (3) Avoidance of pesticides that cannot legally be used on cannabis in the state of California, as set forth by the Department of Pesticide Regulation. (4) Avoidance of anticoagulant rodenticides and rodenticides with "flavorizers." (5) Avoidance of sticky/glue traps. (6) Inclusion of alternatives to toxic rodenticides, such as sanitation (removing food sources like pet food, cleaning up refuse, and securing garbage in sealed containers) and physical barriers.

14-22 Cont.

Artificial Light for Cannabis Operations

Cannabis cultivation operations often use artificial lighting or "mixed-light" techniques in greenhouse structures and indoor operations to increase yields. They also employ exterior lighting for security. If not disposed of properly, these lighting materials pose significant environmental risks because they contain mercury and other toxins (O'Hare et al. 2013). In addition to containing toxic substances, artificial lighting often results in light pollution, which has the potential to significantly and adversely affect biological resources (see previous section "Artificial Nighttime Lighting"). The DEIR does not specify whether artificial light will be used either indoors or outdoors for cannabis cultivation or whether building design will allow indoor light to escape. Because the Project is located immediately adjacent to riparian habitat associated with Whitewater River, and because of the potential for the use of artificial light to impact nocturnal wildlife species and migratory birds that fly at night, CDFW recommends the DEIR be revised to include an analysis of cannabis-specific impacts on biological resources and Mitigation Measure BIO-[B]: Artificial Nighttime Lighting. Light should not be visible outside of any structure used for cannabis cultivation.

14-23

Role of CDFW LSA Program in Cannabis Licensing

Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may adversely impact any river, stream, or lake. Department of Cannabis Control (DCC) requires cannabis cultivators to demonstrate compliance with Fish and Game Code section 1602 prior to issuing a cultivation license (Business and Professions Code, § 26060.1). To qualify for an Annual License from DCC, cultivators must have an LSA Agreement or written verification from CDFW that one is not needed. Cannabis cultivators may apply online for an LSA Agreement through EPIMS (Environmental Permit Information Management System; https://epims.wildlife.ca.gov) and learn more about permitting at

14-24

Comment Letter 14 (page 21 of 30)

https://wildlife.ca.gov/Conservation/Cannabis/Permitting. 14-24 Cont.

8) Landscaping

Page 4.10-25 of the DEIR states that "native plant materials and other drought-tolerant plants will be used in all non-turf areas of Project landscaping. Large expanses of lawn and other water-intensive landscaped areas will be kept to the minimum necessary and consistent with the functional and aesthetic needs of the Project, while providing soil stability to resist erosion." The DEIR lacks additional information on landscaping plans, such as a plant palette or planting locations. CDFW recommends that the DEIR include recommendations regarding landscaping from Section 4.0 of the CVMSHCP "Table 4-112: Coachella Valley Native Plants Recommended for Landscaping" (pp. 4-180 to 4-182; https://cvmshcp.org/plan-documents/). CDFW also recommends incorporation of water-wise concepts in any Project landscape design plans. In particular, CDFW recommends xeriscaping with locally native California species and installing water-efficient and targeted irrigation systems (such as drip irrigation). Native plants support butterflies, birds, reptiles, amphibians, small mammals, bees, and other pollinators that evolved with those plants. More information on native plants suitable for the Project location and nearby nurseries is available at Calscape: https://calscape.org/. Local water agencies/cities and resource conservation cities in your area may be able to provide information on plant nurseries that carry locally native species, and some facilities display drought-tolerant locally native species demonstration gardens. Information on drought-tolerant landscaping and water-efficient irrigation systems is available on California's Save our Water website: https://saveourwater.com/. 14-25

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be filled out and submitted online at the following link: https://wildlife.ca.gov/Data/CNDDB/Submitting-Data. The types of information reported to CNDDB can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals. 14-26

ENVIRONMENTAL DOCUMENT FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the environmental document filing fee is required in order for the underlying Project approval to be operative, vested, and final. 14-27

Comment Letter 14 (page 22 of 30)

14-27 Cont.

(Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

CONCLUSION

CDFW appreciates the opportunity to comment on the DEIR to assist the City in identifying and mitigating Project impacts to biological resources. CDFW concludes that the DEIR does not adequately identify or mitigate the Project's significant, or potentially significant, impacts to biological resources. CDFW also concludes that the DEIR lacks sufficient information for a meaningful review of impacts to biological resources, including a complete assessment of biological resources for special-status species, burrowing owl, and bats. CDFW recommends that a revised DEIR, including a complete assessment of biological resources be recirculated for public comment. The CEQA Guidelines indicate that recirculation is required when insufficient information in the DEIR precludes a meaningful review (§ 15088.5). CDFW recommends that revised and additional mitigation measures and analysis as described in this letter be added to a revised DEIR. 14-28

CDFW personnel are available for consultation regarding biological resources and strategies to avoid and minimize impacts. Questions regarding this letter or further coordination should be directed to Jacob Skaggs, Senior Environmental Scientist Specialist, at jacob.skaggs@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Kim Freeburn
84F02FFEEFD24C8...

Kim Freeburn
Environmental Program Manager

Attachment 1: MMRP for CDFW-Proposed Mitigation Measures

ec:

Heather Brashear, Senior Environmental Scientist (Supervisor), CDFW
Heather.Brashear@Wildlife.ca.gov

Mary Beth Woulfe, U.S. Fish and Wildlife Service
marybeth_woulfe@fws.gov

Lory Salazar-Velasquez, U.S. Fish and Wildlife Service
lory_salazar-velasquez@fws.gov

Noelle Ronan, U.S. Fish and Wildlife Service
noelle_ronan@fws.gov

Comment Letter 14 (page 23 of 30)

Kendra Reif, Community Development Director
City of Coachella
September 4, 2025
Page 23

Peter Satin, Coachella Valley Conservation Commission
psatin@cvag.org

Kathleen Brundige, Coachella Valley Conservation Commission
kbrundige@cvag.org

Office of Planning and Research, State Clearinghouse, Sacramento
state.clearinghouse@lci.ca.gov

ATTACHMENT 1: MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Mitigation Measures	Timing and Methods	Responsible Parties
Mitigation Measure BIO-[A]: Assessment of Biological Resources **Prior to Project construction activities, a complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas, including the Whitewater River, Airport Boulevard bridge, and the vacant, vegetated area to the north, with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511), will be completed. Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. Focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable are required. Acceptable species-specific survey procedures should be developed in**	**Timing:** Prior to Project construction activities **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella

Comment Letter 14 (page 24 of 30)

consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to three years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, or if surveys are completed during periods of drought.		
Mitigation Measure BIO-1: Nesting Birds **To the greatest extent feasible, the Project will avoid construction activities during the peak nesting season (February 1 through September 15). Regardless of the time of year, nesting bird surveys shall be performed by a qualified avian biologist no more than 3 days prior to vegetation removal or ground-disturbing activities. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified avian biologist will make every effort to avoid potential nest predation as a result of survey and monitoring efforts. If active nests are found during the pre-construction nesting bird surveys, a qualified biologist shall establish an appropriate nest buffer to be marked on the ground. Nest buffers are species specific and shall be at least 300 feet for passerines and 500 feet for raptors. A smaller or larger buffer may be determined by the qualified biologist familiar with the nesting phenology of the nesting species and based on nest and buffer monitoring results. Construction activities may not occur inside the established buffers, which shall remain on-site until a qualified biologist determines the**	**Timing:** No more than 3 days prior to all vegetation removal or ground-disturbing activities throughout all phases of the Project. **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella

Comment Letter 14 (page 25 of 30)

young have fledged or the nest is no longer active. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance.		
Mitigation Measure BIO-2: Burrowing Owl Focused and Pre-Construction Surveys **Suitable burrowing owl habitat has been confirmed on the site; therefore, focused burrowing owl surveys shall be conducted by a CVMSHCP-approved Acceptable Biologist in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version) prior to vegetation removal or ground-disturbing activities. If burrowing owls are detected during the focused surveys, the qualified biologist and Project proponent shall begin coordination with CDFW and USFWS immediately, and shall prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW for review and approval prior to commencing Project activities. The Burrowing Owl Plan shall describe proposed avoidance and monitoring actions, including measures necessary to avoid take of burrowing owl individuals, nests, and eggs. The Burrowing Owl Plan shall include the number and location of occupied burrow sites (occupied site means at least one burrowing owl or its sign has been observed within the last three years; may be indicated by owl sign including feathers, pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance or perch site), acres of burrowing owl habitat that will be impacted, details of site monitoring, and details on proposed buffers and other**	**Timing: Focused surveys:** Prior to vegetation removal or ground-disturbing activities for all phases of the Project. **Pre-construction surveys:** No less than 14 days prior to start of Project-related activities and within 24 hours prior to ground disturbance for all phases of the Project and when there is a pause in construction of more than 30 days. **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**. City of Coachella

Comment Letter 14 (page 26 of 30)

avoidance measures. If impacts to occupied burrowing owl habitat or burrow(s) or burrowing owl individuals, nests, or eggs cannot be avoided, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained from CDFW prior to commencement of Project activities. **Preconstruction burrowing owl surveys shall be conducted no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012 or most recent version). Preconstruction surveys should be repeated when there is a pause in construction of more than 30 days. Preconstruction surveys shall be performed by a CVMSHCP-approved Acceptable Biologist following the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation*. If the preconstruction surveys confirm occupied burrowing owl habitat, Project activities shall be immediately halted. The qualified biologist shall coordinate with CDFW and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW and USFWS for review and approval prior to commencing Project activities.**		
Mitigation Measure BIO-3: Surveys for Daytime, Nighttime, Wintering (Hibernacula), and Maternity Roosting Sites for Bats **Prior to the initiation of Project activities within suitable bat roosting habitat—including both the Airport Boulevard bridge and the fan palm grove located north of the Project site—the City and Project proponent shall retain a qualified biologist to conduct focused surveys to determine presence of daytime, nighttime, wintering (hibernacula),**	**Timing:** Prior to initiation of Project activities. **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella

Comment Letter 14 (page 27 of 30)

and maternity roost sites. Two spring surveys (April through June) and two winter surveys (November through January) shall be performed by qualified biologists. Surveys shall be conducted during favorable weather conditions only. Each survey shall consist of one dusk emergence survey (start one hour before sunset and last for three hours), followed by one pre-dawn re-entry survey (start one hour before sunrise and last for two hours), and one daytime visual inspection of all potential roosting habitat on the Project site. Surveys shall be conducted within one 24-hour period. Visual inspections shall focus on the identification of bat sign (i.e., individuals, guano, urine staining, corpses, feeding remains, scratch marks and bats squeaking and chattering). Bat detectors, bat call analysis, and visual observation shall be used during all dusk emergence and pre-dawn re-entry surveys. **If active maternity roosts are identified in the work area or 500 feet extending from the work area, Project construction will only occur between October 1 and February 28, outside of the maternity roosting season when young bats are present but are not yet ready to fly out of the roost. Maternity roosts shall not be evicted, excluded, removed, or disturbed. If active hibernacula are identified in the work area or 500 feet extending from the work area, a minimum 500-foot no-work buffer shall be provided around wintering roosts (hibernacula). The buffer shall not be reduced. Project-related construction and activities shall not occur within 500 feet of or directly under or adjacent to hibernacula. Buffers shall be left in place until the end of Project construction and activities or until a qualified bat biologist determines that the hibernacula are no longer active. Project-related construction and activities shall not occur between 30 minutes before sunset**		

Comment Letter 14 (page 28 of 30)

and 30 minutes after sunrise. Hibernacula roosts shall not be evicted, excluded, removed, or disturbed during winter torpor (November to mid-February). If avoidance of a hibernacula is not feasible, the Project Biologist will prepare a relocation plan to remove the hibernacula and provide for construction of an alternative bat roost outside of the work area. A bat roost relocation plan shall be submitted for CDFW review and approval prior to construction activities. The qualified biologist will implement the relocation plan and new roost sites shall be in place before the commencement of any ground-disturbing activities that will occur within 500 feet of the hibernacula. New roost sites shall be in place prior to the initiation of Project-related activities to allow enough time for bats to relocate. Removal of roosts will be guided by accepted exclusion and deterrent techniques. The Project proponent shall compensate no less than 2:1 for permanent impacts to roosting habitat.		
Mitigation Measure BIO-[B]: Artificial Nighttime Lighting **Throughout construction and the lifetime operations of the Project, the City and Project proponent shall eliminate all nonessential lighting throughout the Project area and avoid or limit the use of artificial light at night during the hours of dawn and dusk when many wildlife species are most active. The City and Project proponent shall ensure that all lighting for the Project is fully shielded, cast downward and directed away from surrounding open-space and agricultural areas, reduced in intensity to the greatest extent possible, and does not result in lighting trespass including glare into surrounding areas or upward into the night**	**Timing**: Throughout construction and the lifetime operations of the Project **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella

Comment Letter 14 (page 29 of 30)

sky (see the International Dark-Sky Association standards at http://darksky.org/). The City and Project proponent shall ensure use of LED lighting with a correlated color temperature of 3,000 Kelvins or less, proper disposal of hazardous waste, and recycling of lighting that contains toxic compounds with a qualified recycler.		
Mitigation Measure BIO-[C]: Construction Noise **During construction of the Project, the City shall restrict use of equipment to hours least likely to disrupt wildlife (e.g., not at night or in the early morning) and restrict use of generators except for temporary use in emergencies. Power to sites can be provided by solar PV (photovoltaic) systems, cogeneration systems (natural gas generator), small micro-hydroelectric systems, or small wind turbine systems. The City shall ensure use of noise suppression devices such as mufflers or enclosure for generators. Sounds generated from any means must be below the 55-60 dB range within 50-feet from the source**	**Timing**: During construction **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella
Mitigation Measure BIO-[D]: Pesticides **Prior to construction and issuance of any grading permit, the Project proponent shall develop a plan in consultation with the City. The plan shall be reviewed and approved by the City as a condition of project approval. The plan shall identify measures to avoid, minimize, or mitigate the impacts of pesticides used in cannabis cultivation, including fungicides, herbicides, insecticides, and rodenticides. The plan should include, but is not limited to, the following elements: (1) Proper use, storage,**	**Timing**: Prior to construction and issuance of any grading permit **Methods:** See Mitigation Measure	**Implementation**: City of Coachella and Project proponent **Monitoring and Reporting**: City of Coachella

Comment Letter 14 (page 30 of 30)

and disposal of pesticides, in accordance with manufacturers' directions and warnings. (2) Avoidance of pesticide use where toxic runoff may pass into waters of the State, including ephemeral streams. (3) Avoidance of pesticides that cannot legally be used on cannabis in the state of California, as set forth by the Department of Pesticide Regulation. (4) Avoidance of anticoagulant rodenticides and rodenticides with "flavorizers." (5) Avoidance of sticky/glue traps. (6) Inclusion of alternatives to toxic rodenticides, such as sanitation (removing food sources like pet food, cleaning up refuse, and securing garbage in sealed containers) and physical barriers.		

Response to Comment Letter 14

Kim Freeburn, Environmental Program Manager
California Department of Fish and Wildlife
September 4, 2025

14-1 This comment includes a general introduction and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

14-2 This comment discusses CDFW's role as California's Trustee Agency and a Responsible Agency under CEQA. Comment noted that CDFW is submitting comments as a Responsible Agency under CEQA and may need to exercise regulatory authority as provided by the Fish and Game Code. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

14-3 This comment includes a general summary of the proposed Project, its objectives, location, and timeframe and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

14-4 The commenter asserts that the DEIR has not adequately identified and disclosed the Project's direct, indirect, and cumulative impacts on biological resources. The commenter also concludes that the DEIR lacks sufficient information to facilitate a meaningful review by CDFW. The commenter requests that additional information and analyses be added to a revised DEIR.

The comment is overly broad and cannot be addressed in detail. Responses to individual issues raised by the commenter are addressed below.

14-5 The commenter expresses a concern that the assessment of the existing environmental setting has not been adequately analyzed in the DEIR. The commenter states that the DEIR lacks a complete assessment of biological resources associated with nesting birds, burrowing owls, and bats within the Project site and surrounding areas.

As confirmed in the Biological Resources Responses to Comments Technical Memorandum (provided as Attachment C2 of this FEIR), the assessment of the existing environmental setting associated with the Project site is provided in Section 4.4.1 on pages 4.4-1 through 4.4-16 of the DEIR. The assessment is adequate as required by CEQA. These issues are discussed as responses to individual comments further below.

14-6 The commenter states that CDFW is concerned that the Mitigation Measures proposed in the DEIR are not adequate to avoid or reduce impacts to biological resources to below a level of significance. The comment is overly broad. Individual issues are discussed below.

14-7 The commenter states that the DEIR and its supporting documents lack an adequate assessment of biological resources that may occupy the adjacent Whitewater River and the

Airport Boulevard bridge. Specifically, the commenter states that the DEIR lacks the following: 1) an analysis of the potential for the Airport Boulevard bridge to support nesting birds and bats, 2) the results of focused burrowing owl surveys within the Project site and adjacent Whitewater River, 3) adequate analysis of the potential direct and indirect impacts of the Project associated with lighting, and 4) adequate analysis of the potential direct and indirect impacts of the Project associated with noise on wildlife using the Whitewater River, including the Airport Boulevard bridge, and the vacant, vegetated parcel to the north.

The DEIR contains an assessment of the Project's Study Area (Project site and a 300-foot surrounding buffer) that includes much of the width of the Whitewater River/Coachella Valley Stormwater Channel and the Airport Boulevard bridge. The Airport Boulevard bridge is outside of the Project site and would not be impacted by the Project. As stated on page 4.4-24 of the DEIR, direct impacts may occur if active nests are located near the Project site and are abandoned due to visual and/or acoustic Project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Additionally, as stated on page 4.4-25 of the DEIR, direct impacts to western yellow bat may occur if an active roost is located within the California fan palm oasis that occurs just north of the Project area, due to visual and/or acoustic Project-related disturbance. In addition, as discussed in Response 4-5 and shown in Section 3.0, Errata, of this FEIR, MM BIO-3 will be clarified to include the Airport Boulevard bridge since it is included as an area of suitable roosting habitat. Therefore, as noted in the Project's BRA and DEIR, these impacts would be reduced to less than significant through implementation of MM BIO-1 (Nesting Bird Avoidance/Pre-construction Surveys), MM BIO-3 (Emergence Bat Survey), MM BIO-5 (Worker Environmental Awareness Program), and MM BIO-8 (Standard Construction Best Management Practices). Further responses regarding each species are provided below.

Additionally, the commenter recommends the DEIR be revised to include the findings of a complete, *recent* inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including Special Species of Concern ("SSC") and California Fully Protected Species. The commenter recommends a biological inventory include a buffer area surrounding the Project including the Whitewater River and Airport Boulevard bridge. The commenter recommends the DEIR be revised to include an analysis of direct, indirect, and cumulative impacts to biological resources, including, but not limited to lighting and noise, and identification of appropriate avoidance, minimization, and Mitigation Measures.

As described in Section 2.5 Literature and Database Review of the BRA, the biological resources within a Study Area comprising the Project site plus a 300-foot buffer were analyzed, which is standard practice for a biological reconnaissance survey. Figures 2, 4, 5, 6, and 7 of the BRA show that the Study Area included much of the width along the portion of the Whitewater River that is adjacent to the Project site as well as the Airport Boulevard bridge crossing over the Whitewater River. Therefore, the Study Area described in the BRA and DEIR is adequate.

Based on the Attachment C2 of this FEIR, Project site conditions have not appreciably changed since the time of the field reconnaissance survey. The commenter provides no evidence to suggest any changes or any reason to believe that the inventory is inaccurate as to current conditions on the site, and an updated field reconnaissance survey would not likely result in substantial changes to the BRA's or DEIR's observed species lists, described vegetation communities, presence or absence of potentially jurisdictional waters, or determination of habitat suitability for special-status species with at least some potential to occur on or adjacent to the Project site. Therefore, no further action is recommended.

14-8 The commenter suggests adding the following Mitigation Measure addressing the assessment of Biological Resources to the DEIR:

"Prior to Project construction activities, a complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas, including the Whitewater River, Airport Boulevard bridge, and the vacant, vegetated area to the north, with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511), will be completed. Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. Focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable are required. Acceptable species-species survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to 3 years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, of if surveys are completed during periods of drought."

As noted in Response 14-7, there is a low potential for findings from the July 7, 2023, field reconnaissance survey to appreciably change with an updated reconnaissance survey. Therefore, the addition of the Mitigation Measure suggested above is not warranted.

14-9 The commenter quotes the relevant sections of the Fish and Game Code related to nesting birds, and summarizes Take authorization under the CVMSHCP. The commenter concurs that the Project site and surrounding areas, including the Whitewater River, contain suitable habitat for birds that nest on the ground and in shrubs and trees, as confirmed in the Draft EIR. However, the commenter considers Mitigation Measure BIO-1 to be inadequate in scope and timing to reduce impacts to nesting birds to a level less than significant. The commenter recommends the completion of nesting bird surveys regardless of the time of year to ensure that impacts to nesting birds and their nests and eggs are avoided.

As noted in Section 4.4, Biological Resources, of the DEIR and in Attachment C2 of this FEIR, no state listed threatened or endangered birds were detected within the Study Area. As discussed in Response 4-3 of this FEIR in response to a similar comment made by the USFWS,

MM BIO-1 has been revised in order to clarify and amplify this MM and facilitate its adequacy in protecting nesting birds. This comment is further addressed in Response 14-11 below.

14-10 The commenter states that the DEIR lacks an adequate discussion of the Project's potential direct, indirect, and cumulative impacts to nesting birds located within the Project site and within the adjacent Whitewater River, including the Airport Boulevard bridge, which may provide suitable habitat for cliff swallow (*Petrochelidon pyrrhonota*), and requires additional mitigation.

The impact analysis in Section 4.4.3 of the DEIR contains an analysis of impacts to nesting birds within both the Project site and areas near the Project site, which include both the Whitewater River and the Airport Boulevard bridge. This comment is further addressed in Response 14-11 below.

14-11 The commenter recommends that disturbance of occupied nests of migratory birds and raptors within the Project site and surrounding area be avoided any time birds are nesting on-site. The commenter recommends updates to Mitigation Measure BIO-1 (Nesting Birds). As noted in Attachment C2 and Section 3.0, Errata, of this FEIR, and as discussed in Response 4-3 of this FEIR in response to a similar comment made by the USFWS regarding the scope and timing to reduce impacts to nesting birds, Mitigation Measure BIO-1 has been updated with some of the commenter's suggested language in order to clarify and amplify this Mitigation Measure and facilitate its adequacy in protecting nesting birds. The recommended updated Mitigation Measure BIO-1, Nesting Bird Avoidance/Pre-construction Surveys is as follows:

"Prior to issuance of the Project's grading permit, the following measures shall be implemented:

To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within three ~~seven~~ days prior to vegetation removal or ground disturbance.

A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within three ~~seven~~ days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist will make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall

consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still contain potential nesting habitat. No activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds."

This change has been made to Section 4.4, *Biological Resources,* page 4.4-26 of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR.

14-12 The commenter summarizes the Fish and Game Commission's determination that western burrowing owl warrants protection as a candidate species under CESA, which affords the same protection as threatened and endangered species under CESA, and states if Project activities, including relocation, could result in take, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained prior to commencement of Project activities.

The commenter further states that throughout the CVMSHCP area, Permittees must ensure that activities occurring within their jurisdictions do not result in the take, possession, or destruction of burrowing owl individuals, nests, or eggs, and that any such activity is unlawful and would not be a Covered Activity under the CVMSHCP.

The commenter concurs that the Project site and surrounding area including the Whitewater River contain suitable nesting and foraging habitat for burrowing owl.

As noted in Section 4.4, Biological Resources, of the DEIR and in Attachment C2 of this FEIR, Section 4.4 of the CVMSHCP requires burrowing owl surveys in CVMSHCP Conservation Areas. The Project site is outside of a Conservation Area; therefore, focused burrowing owl surveys are not required by the CVMSHCP for the Project. Although the commenter notes that, since the time of the field reconnaissance survey (July 7, 2023), and as described in CDFW's comment above, burrowing owl has been listed by the California Fish and Game Code Commission as a candidate species for listing under CESA, the potential listing does not change the provisions of the MSHCP or the impact analysis and conclusions set forth in the DEIR. The City will enforce the MSHCP provisions, and with implementation of Mitigation Measure BIO-2 as clarified in this FEIR, significant impacts to burrowing owls will be avoided. In addition, there was no sign or burrows onsite during the biological resources field survey. This comment is further addressed in Response 14-13 below.

14-13 The commenter notes the DEIR includes Mitigation Measure BIO-2, which generally aligns with Required Avoidance, Minimization, and Mitigation measures for burrowing owl under the CVMSHCP (Section 4.4). However, the commenter states these measures are outdated and do not ensure that impacts to burrowing owl individuals and their nests and eggs will be avoided.

The biological resource field survey found no burrowing owl or their sign, and no burrows on the Project site. The commenter provides no evidence that the species occupies the site. The site is not located in a CVMSHCP Conservation Area. MM BIO-2 requires pre-construction surveys for the species. If the species were to locate on the site, the required pre-construction surveys would identify them, and cause Project activities, including grubbing prior to grading, to stop until such time as a mitigation program, including a relocation if needed, was reviewed and implemented by CDFW, thereby eliminating the potential for Take of the species on the Project site. The City is complying with the requirements of both the CVMSHP and CESA by requiring MM BIO-2, and no change is required to assure protection of the species on the site. In order to provide clarity and direction, MM BIO-2 has been modified to explicitly cite the CDFW Staff Report as the correct protocol, and to prohibit Project activities until mitigation or avoidance measures are implemented, should the species be identified on site.

Based on the comments provided, MM BIO-2 will be revised as follows:

"BIO-2 Burrowing Owl Pre-construction Survey

In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, a pre-construction burrowing owl surveys shall~~will~~ be conducted by a qualified biologist no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version). Pre-construction surveys shall be conducted within 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not prior to the start of Project disturbance activities. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If either a nesting or escape burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow. The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW and USFWS for review and approval prior to re-commencing Project activities within the restricted area ~~the burrowing owl shall be relocated pursuant to accepted CDFW protocols~~. A burrow is assumed occupied if records indicate that at least one burrowing owl has been observed occupying a burrow on site during the past three years. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of more than 30 days. ~~If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season (January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to~~

~~nearest suitable habitat and presence of burrow) in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January)~~.

This change has been made to Section 4.4, *Biological Resources,* page 4.4-26 of the DEIR and is reflected in Section 3.0, Errata, of the Final EIR. It should be noted that this change does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies.

14-14 The commenter notes the BRA's language describing known roosting habitats of special-status bat species having potential to occur onsite and concurs that the Airport Boulevard bridge may contain crevice habitat that is suitable roosting habitat for these and other bridge-roosting bat species. The commenter states that the DEIR lack an assessment of potential roosting habitat for bats associated with the Airport Boulevard bridge, the findings of focused surveys associated with suitable bat roosting habitat, or an analysis and discussion of potential direct and indirect impacts of the Project, such appropriate avoidance, minimization, and mitigation measures.

The commenter also suggests the DEIR also include focused surveys for western yellow bat (CVMSHCP-Covered Species, SSC), which has the potential to roost in the grove of fan palms (*Washingtonia* sp.) located just north of the Project site.

As noted on page 4.4-25 of the DEIR, and in Attachment C2 of this FEIR, western yellow bat is a covered species under the CVMSHCP, and the CVMSHCP does not require focused bat surveys. Mitigation Measure BIO-3 requires a special-status bat species emergence survey if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat, which also include the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. Mitigation Measure BIO-3 also requires that any special-status bat species observed during the maternity roosting season within or adjacent to the Project area be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction. Implementation of Mitigation Measure BIO-3 adequately reduces potential impacts to special-status bat species to less than significant levels. Therefore, no revisions to DEIR are warranted relative to this comment, other than the clarification that the Airport Boulevard Bridge will be included in the areas subject to emergence survey required under Mitigation Measure BIO-3.

14-15 The commenter recommends the DEIR be revised to include an analysis of Project impacts associated with artificial nighttime lighting on bats that may use the grove of fan palms and the Airport Boulevard bridge.

The Project site is located immediately west of SR 86, which produces significant existing light sources from travelers on that roadway. Potential Project lighting impacts are described in Section 4.1, Aesthetics, on pages 4.1-22 and 4.1-23 of the DEIR. Specifically, page 4.1-23 of the DEIR states that all light sources in the Project site's parking areas, walkways and on the

exterior of proposed buildings would be shielded downwards and use of building materials on the Project site would be required to minimize glare. As such, light spill would not be permitted to occur, and the Project's compliance with City regulations and standards including the Coachella Municipal Code Chapters 16.28.150(L), *Improvements and Grading*, and Chapter 17.56.010(J)(2)(e), *Glare from Signs*, and lighting requirements in Chapter 17.60, *Development Standards,* would maintain appropriate and safe lighting levels onsite while minimizing light and glare on adjacent properties. Additionally, pages 4.4-24 and 4.4-25 of the DEIR include a description of potential Project impacts to nesting birds and bats due to visual (which includes lighting) and/or acoustic Project-related disturbance. Mitigation Measure AES-2 of the DEIR requires the construction contractor to locate and aim all construction-related nighttime security lighting away from adjacent uses, including both residential and non-residential areas neighboring the Project site. Additionally, Mitigation Measure BIO-8 requires, among other standard construction Best Management Practices, any construction lighting to be directed toward the work area and away from adjacent habitats. Therefore, no revisions to the DEIR are warranted relative to this comment.

14-16 The commenter considers Mitigation Measure BIO-3 in the DEIR to be inadequate in scope and timing to avoid or reduce impacts to bats to a level less than significant, and recommends updates to the Mitigation Measure.

Please see Response 14-14. Mitigation Measure BIO-3 as written will facilitate avoidance of special-status bat species during the maternity roosting season with establishment of a 100-foot to 300-foot buffer should any special-status bat species be detected. Additionally, the Project would not directly impact suitable habitat for special-status bat species. As shown on Figure 5 of the BRA and Exhibit 4.4-1 of the DEIR, the California fan palm oasis is located outside and north of the Project site, and the Airport Boulevard bridge is located outside and southwest of the Project site. Therefore, the analysis and proposed Mitigation Measures in the BRA and DEIR are adequate to reducing impacts to special-status bats to less than significant. No additional actions are recommended.

14-17 The commenter states that the DEIR lacks an analysis of direct, indirect, and cumulative impacts of artificial nighttime lighting, including impacts associated with construction and long-term operations, on biological resources including migratory birds that fly at night, burrowing owls, bats, and other nocturnal and crepuscular wildlife. The comment further states that the Project's proposed artificial nighttime lighting has the potential to significantly and adversely affect wildlife in vacant areas adjacent to the Project site.

See Response 14-15. Potential direct and indirect Project lighting impacts are described in Section 4.1, Aesthetics, on pages 4.1-22 and 4.1-23 of the DEIR and potential cumulative Project lighting impacts are described on pages 4.1-25 and 4.1-26. Project compliance with City regulations and standards related to artificial nighttime lighting and Mitigation Measures described above and in the DEIR would reduce any potential direct, indirect, and/or cumulative artificial nighttime lighting impacts to biological resources to less than significant. No additional analysis or Mitigation Measures are warranted.

14-18 The commenter suggests the City add a new mitigation measure related to potential artificial light impacts associated with the Project.

See Response 14-15. No additional analysis or Mitigation Measures are warranted.

14-19 The commenter states that construction activities may result in substantial noise through road use, equipment, and other Project-related activities, which may adversely affect wildlife species in several ways as wildlife responses to noise can occur at exposure levels of only 55 to 60 decibels. The commenter further cites several studies that describe how noise can impact wildlife. Refer to Response 14-20, below. This comment does not warrant changes to the DEIR. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

14-20 The commenter acknowledges page 4.4-24 of the DEIR indicates that the noise associated with Project construction activities may result in direct impacts to nesting birds located near the Project site. CDFW notes that the Project may result in direct and indirect impacts associated with noise to biological resources occupying the adjacent Whitewater River, the Airport Boulevard bridge, and the vacant, vegetated parcel to the north of the Project area. The commenter states that the DEIR lacks additional analysis discussion of the potential impacts of noise on biological resources in areas surrounding the Project area. CDFW recommends the DEIR be revised to include an analysis of potential impacts to wildlife associated with construction noise and to incorporate appropriate avoidance, minimizations, and Mitigation Measures. Specifically, the commenter recommends the inclusion of Mitigation Measure BIO-[C]: Construction Noise, which would require the City to ensure the use of noise suppression devices for generators for temporary use in emergencies and to restrict the use of construction equipment to hours least likely to disrupt wildlife (e.g., not at night or in the early morning).

As noted in Attachment C2 of this FEIR, pages 4.4-24 and 4.4-25 of the DEIR state that direct impacts may occur if active nests are located near the Project site and are abandoned due to visual and/or acoustic Project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Therefore, impacts to special-status birds and raptors would be potentially significant without mitigation. Additionally, page 4.4-25 of the DEIR states that direct impacts to western yellow bat may occur if an active roost is located within the California fan palm oasis that occurs just north of the Project site, due to visual and/or acoustic Project-related disturbance. Impacts to special-status bat species would be considered significant without mitigation. Section 4.13, Noise, on pages 4.13-1 through 4.13-28 of the DEIR contains an analysis of potential noise impacts associated with the Project and Mitigation Measures that would reduce Project noise impacts to less than significant levels. Cumulatively, implementation of the revised Mitigation Measure BIO-1 and Mitigation Measure BIO-2 described above, the rest of the Mitigation Measures in Section 4.4, Biological Resources, of the DEIR, and the noise Mitigation Measures described within Section 4.13, Noise, of the DEIR, would reduce noise impacts associated with the Project to biological resources to less than significant levels. Therefore, the existing analysis in the DEIR, the revised Mitigation Measure BIO-1 and Mitigation Measure BIO-2 described above, the rest of the Mitigation Measures in

Section 4.4, and the Mitigation Measures in Section 4.13 of the DEIR are adequate to mitigate noise impacts to biological resources in accordance with CEQA. No additional analysis or Mitigation Measures, including Mitigation Measure BIO-[C] as proposed by the commenter, are warranted.

14-21 The commenter lists a number of impacts to biological resources associated with cannabis cultivation, including pesticides, fertilizers/imported soils, water pollution, groundwater depletion, vegetation clearing, construction and other development in floodplains, fencing, roads, noise, artificial light, dams and stream crossings, water diversions, and pond construction, as applicable to the Project. CDFW recommends that the DEIR includes an analysis of cannabis-specific impacts to biological resources that may result from Project activities. First, any potential cannabis operations would be located within buildings constructed on the Project site, thus avoiding the potential impacts described in this comment.

Moreover, the implementation and operations of a Conditionally Approved Cannabis operation would be required to comply with the State and Local regulatory requirements that would avoid impacts to biological resources, which include:

Public Resources Code (PRC) §1602 prohibits the diversion or obstruction of any bed, channel, or bank of, any river, stream or lake

1) PRC §5650 prohibits discharge of cannabis irrigation water into any Waters of the State
2) PRC §5652 prohibits disposal of cannabis waste near any body of water
3) Public Resources Code (PRC) §12029(b) establishes a watershed enforcement program

In addition to mandatory State regulations associated with Commercial or Retail Cannabis uses, local regulations would include the following standard regulatory requirements preventing impacts to surface and groundwater or on-site native vegetation:

1) Cannabis waste material shall be handled separate of solid waste collection services (trash, recyclable, organics) unless alternative disposal method approved by the State Department of Cannabis Control (DCC)
2) Cannabis waste material shall be housed in a locking enclosure that is not accessible to unauthorized, individuals including the public.
3) Installation of a backflow device on all common-area buildings and at each irrigation water connection shall be required in order to prevent groundwater contamination. The backflow device must be in compliance with City of standards and specifications.[7]

[7] City of Coachella Municipal Code, Article VI: Chapter 13.03 – Water Service Systems. https://library.municode.com/ca/coachella/codes/code_of_ordinances?nodeId=TIT13PUSE_CH13.03WASESY (accessed February 25, 2026)

In addition to the aforementioned potential environmental impacts, the commenter lists additional impacts that are not applicable to the Project.

1) Fencing: The Project does not propose fencing that would obstruct or divert any river, stream, lake, or other body of water.
2) Roads: The Project would construct, and dedicate public Rights-of-Way, in accordance with the City's road standards. The Project would not construct any roads that obstruct or divert any river, stream, lake, or other body of water.
3) The Project would not create sources of artificial lighting creating impacts to wildlife or wildlife corridors. Refer to Section 4.1 of the DEIR for a more detailed discussion of lighting impacts.
4) The Project is not located near any dams, stream crossing, or ponds. As such, the Project would not impact such resources from any potential Retail or Commercial cannabis operations. Refer to Section 4.4 of the DEIR for a more detailed discussion of impacts to wetlands or riparian features.

Additional operational odor impacts could result from future commercial cannabis operations, which have the potential to create significant odor impacts to nearby sensitive receptors. As discussed in Responses 14-21 and 14-22, any future commercial or retail cannabis uses would be subject to State and local regulations, including SCAQMD Rule 402, Coachella Municipal Code § 5.68.040(P), and Coachella Municipal Code Chapter 5.68.130, *Operating Standards, (C) Odor Control*. As such, with compliance with applicable regional and local cannabis-related regulations, this impact would be less than significant

14-22 The commenter states the DEIR lacks discussion of whether the Project's cultivation activities will involve pesticides such as fungicides, herbicides, insecticides, and rodenticides. Because of the potential for Project activities to involve the use of pesticides in cannabis cultivation and other cannabis-related activities, the commenter requests the addition of a mitigation measure specifically related to pesticides.

Should cannabis uses occur on the Project site, a Cannabis Cultivator license would be required from the Department of Cannabis Control (DCC). Pursuant to Business and Professions Code (BPC) §26060(c), the DCC has developed guidelines and regulations for the use of pesticides in the cultivation of cannabis and residue in harvested cannabis.

In April 2025, the DCC adopted the Medicinal & Adult Use Cannabis Regulations which includes Article 5, §15719 requiring residual pesticide testing for all cultivated cannabis products. In addition, the Department of Pesticide Regulation requires that the application of pesticides or other pest control in connection with the indoor, outdoor, nursery, specialty cottage, or mixed-light cultivation of cannabis complies with Division 6, §11401 et seq. of the Food and Agricultural Code and its implementing regulations.

Any future Cannabis Cultivation use shall be licensed by the State in order to operate and would be subject to the aforementioned regulatory requirements. As such, no specific mitigation measure is required and compliance with these requirements ensures that no

impacts would occur from the use of pesticides in conjunction with cannabis operations. No additional analysis or Mitigation Measures are warranted.

14-23 The commenter notes that cannabis cultivation operations often use artificial lighting or "mixed-light" techniques in greenhouse structures and indoor operations to increase yields, and that they also employ exterior lighting for security. The commentor then describes common impacts associated with cannabis operations and states the DEIR does not specify whether artificial light will be used either indoors or outdoors for cannabis cultivation or whether building design will allow indoor light to escape. The commentor then suggests the DEIR be revised to include an analysis of cannabis-specific impacts of artificial light on biological resources and MM BIO-[B]: Artificial Nighttime Lighting.

Refer to Response 14-18, above. The Project does not propose greenhouse facilities. Any cannabis uses would be fully contained within a building, and cannabis cultivation and manufacturing uses would not be viewable from public areas, in compliance with Section 5.68.130 of the City Municipal Code. As such, light spill would not be permitted to occur, and the Project's design features would maintain appropriate and safe lighting levels onsite while minimizing light and glare on adjacent properties. No additional analysis or Mitigation Measures are warranted.

14-24 The commenter describes the role of the CDFW LSA Program in cannabis licensing and provides a link for additional information on permitting. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. In addition, the Project is not anticipated to impact any river, stream, or lake. Therefore, no further response is warranted.

14-25 The commenter notes that the DEIR states that "native plant materials and other drought-tolerant plants will be used in all non-turf areas of Project landscaping. Large expanses of lawn and other water-intensive landscaped areas will be kept to the minimum necessary and consistent with the functional and aesthetic needs of the Project, while providing soil stability to resist erosion." The commenter asserts that the DEIR lacks additional information on landscaping plans, such as plant palette or planting locations. The commenter recommends the DEIR include recommendations regarding landscaping from Section 4.0 of the CVMSHCP Table 4-112. The commenter also recommends water-wise concepts in any Project landscape designs.

The City and Project Applicant acknowledge that Table 4-112 in Section 4 of the CVMSHCP contains a list of Coachella Valley native plants that are recommended for landscaping, which the Project's landscaping plan would be in compliance with. Since the Project will meet the City's landscape requirements and because invasive species are already covered by MM BIO-7, the existing Mitigation Measure BIO-7 is sufficient to address the commenter's concerns regarding Project landscaping and no revisions to the measure are warranted.

14-26 The commenter states that information developed in EIRs and negative declarations be incorporated into a database to be used for subsequent or supplemental environmental

determinations. Comment noted. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

14-27 The commenter states that environmental document filing fees are payable upon filing of the Notice of Determination and required for the Project approval to be final. Comment noted. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

14-28 The commenter concludes by restating the assertions discussed above and provides contact information for CDFW.

See Responses 14-1 through 14-27. As described above, with minor modification to mitigation measures required for clarity, the DEIR comprehensively addresses impacts to biological resources, and provides mitigation measures which will assure that these impacts are reduced to less than significant levels.

Comment Letter 15 (page 1 of 4)

Comment Letter No. 15

CALIFORNIA STATE TRANSPORTATION AGENCY — GAVIN NEWSOM, GOVERNOR

California Department of Transportation

DISTRICT 8
464 WEST 4TH STREET
SAN BERNARDINO CA, 92401
(909) 925-7520
www.dot.ca.gov

September 10, 2025

Route & Postmile #: SR-86 / PM 17.011
Cross Street: SR-86 & Airport Blvd.
GTS ID: 37392
SCH #: 2023040106

City of Coachella
Planning Division
Attn: Kendra Reif
53990 Enterprise Way,
Coachella, CA 92236

Subject: Caltrans LDR Branch Review of the Coachella Airport Business Park; APN: 763-330-013, 763-330-018, and 763-330-029.

The California Department of Transportation (Caltrans) Local Development Review (LDR) Branch has completed its review of the Coachella Airport Business Park Draft Environmental Impact Report (EIR). The project is located at the northwest corner of the SR-86 and Airport Boulevard interchange in the City of Coachella, Riverside County and encompasses approximately 47.96 acres in size. 15-1

The project is proposing an industrial development on currently vacant land that will include large and small warehouses, personal vehicle and self-storage units, small business spaces, limited retail and restaurant uses, a 44-foot electronic billboard along the SR-86 frontage, and a fuel station with a convenience store, along with associated landscaping, parking, lighting, and signage. In addition, an Imperial Irrigation District (IID) electrical substation will be constructed at the northern end of the site on a parcel acquired from Caltrans. The 315-foot by 315-foot substation will house at least one 1–25 MVA 92/13.2 kV transformer bank to provide adequate power for the project. Moreover, the project is proposing two driveways and local road traffic signal that is within 400 feet from the southbound SR-86 Ramps and Airport Boulevard interchange. 15-2

Given the planned driveways and the signalization that is within 400 feet from the southbound SR-86 Ramps/Airport Boulevard interchange, the project will require a Caltrans Encroachment Permit prior to construction to address impacts from the anticipated increase in traffic generated by the development. Based on the project documents currently available, these comments are considered preliminary and may be subject to revision as site development progresses. 15-3

"Improving lives and communities through transportation"

1

Comment Letter 15 (page 2 of 4)

Local Development Review

General

1. Submit a comment response letter addressing the LDR letter along with your Encroachment Permit application.
2. During the Encroachment Permit phase, coordinate with the Caltrans Division of Right of Way to verify the extent of impacts to Caltrans' right-of-way (ROW).
3. During the Encroachment Permit phase, please coordinate with Caltrans Division of Design's Hydraulics, Stormwater, Electrical and Traffic units.
4. During the Encroachment Permit phase, please coordinate with Caltrans Operations Truck Services group for their input in your project.
5. A more in-depth review of the project will be conducted during the Encroachment Permit process.

15-4

Vehicle Miles Traveled (VMT)

While we understand that the VMT impacts associated with this project are considered significant and unavoidable, and that the applicant has proposed certain VMT mitigation measures, we strongly encourage the continued exploration and implementation of additional VMT reduction strategies, wherever feasible. These efforts can support long-term sustainability objectives, improve multimodal accessibility, and promote environmentally responsible development.

15-5

Traffic Operations

Traffic Impact Analysis

1. Please include detail layout plan of the project included lane geometry, striping and spacing distance from the driveway access to the nearest intersection. (provide with readable engineering scale)
2. Please include the queueing analysis in the report.

15-6

Traffic Forecasting & Analysis

Traffic Impact Analysis

1. Figure 1-2 identifies study intersections by number only and does not depict the study roadway segments listed in the report text. Per Caltrans TIA Guidelines, the project study area should be clearly documented for both intersections and roadway segments. Recommend (1) including a table cross-referencing each numbered intersection with its roadway names, including project access points, and (2) revising the figure to also show and label the study roadway segments so that all facilities identified in the study area description are consistently referenced in the text, figures, and LOS analysis tables.
2. The methodology for developing future volumes does not fully align with Caltrans TIA Guidelines. Per Section 4.3, base year model volumes must be validated against observed counts (PeMS/Caltrans ramp stations) and documented if adjustments exceed ~10%. The use of interpolated years (2027, 2030, 2033) should be justified against SCAG/RIVCOM official horizon years, and reliance on the NCHRP 255 Directional Volume Method may not be consistent with regional model practices for State facilities. In addition, capping 2045 volumes at the lower of 2033 or model 2045 outputs understates long-range growth and is inconsistent with the requirement to use adopted 2045 model outputs as the governing horizon year. Recommend revising the methodology to follow Caltrans TIA Guidelines and RTP/SCS horizon years for forecasting future traffic volumes.
3. Per Caltrans TIA Guidelines, the adopted SCAG/RIVCOM RTP/SCS horizon year (2045) should be used as the governing cumulative year. Furthermore, since the project's final phase extends to 2033, cumulative analysis may also need to consider a 20-year horizon beyond

15-7

"Improving lives and communities through transportation"

2

Comment Letter 15 (page 3 of 4)

buildout (~2053) to ensure long-range impacts on State facilities are fully addressed. Recommend revising the methodology accordingly.

4. The TIA applies a 2% heavy vehicle share with SANBAG PCE factors. For State facility analysis, Caltrans typically references Highway Design Manual/HCM-based PCE standards. Recommend confirming that the truck mix and PCE assumptions used are consistent with Caltrans requirements for the SR-86 ramps or provide justification for use of SANBAG factors.
5. Distribution comes from a RIVCOM select-zone run, but the TIA does not include a distribution matrix or truck routing confirmation to/from designated truck routes (SR-86/CA-111). Recommend (1) appending an AM/PM distribution-by-approach table derived from the RIVCOM select-zone run, and (2) documenting truck routing to/from SR-86/CA-111 using the Caltrans Truck Network (with a note that no restricted local streets are used). 15-7 Cont.
6. The TIA's existing traffic counts were collected on January 18, 2024, which falls within the same week as the Martin Luther King Jr. holiday. Per Caltrans TIA Guidelines, traffic counts should avoid holiday weeks or other atypical periods. Recommend either (a) verifying these counts against supplemental counts collected during a typical non-holiday week, or (b) providing confirmation using later 2024 counts or PeMS/Caltrans station data that January 18 conditions are representative. In addition, several appendix sections appear incomplete or blank; recommend revising the submittal to include the full supporting materials.
7. Several items fall outside the scope of Traffic Forecasting & Analysis and should be reviewed in consultation with Caltrans Traffic Operations. These include (a) freeway/ramp operational analyses and 95th-percentile off-ramp queue checks, (b) reliance on CMP "Modified HCM 1999" methods versus Caltrans-approved operational methodologies, (c) provision of 5-year TASAS collision history at SR-86 ramp terminals and CA-111 intersections, (d) evaluation of ramp-area crossings and frontage facilities consistent with Caltrans Complete Streets policy, and (e) documentation of on-site stacking/queue containment for the fast-food drive-through and fuel bays. Please coordinate with Operations to determine whether additional HCM6 freeway/ramp analysis, safety evaluation, and site circulation checks are required.

Equitable Access

If any Caltrans facilities are impacted by the project, they must comply with American Disabilities Act (ADA) Standards upon project completion. Additionally, the project must ensure the maintenance of bicycle and pedestrian access throughout the construction phase. These access considerations align with Caltrans' equity mission to provide a safe, sustainable, and equitable transportation network for all users. 15-8

Caltrans Encroachment Permit

Be advised that any permanent work or temporary traffic control that encroaches onto Caltrans' R/W requires a Caltrans-issued encroachment permit.

For information regarding the Encroachment Permit application and submittal requirements, contact: 15-9

Caltrans Office of Encroachment Permits
464 West 4th Street, Basement, MS 619
San Bernardino, CA 92401-1400
(909) 383-4526
D8.E-permits@dot.ca.gov
https://dot.ca.gov/programs/traffic-operations/ep
Important Note: All new permit applications must now be submitted through our new CEPS Online Portal at: https://ceps.dot.ca.gov/
Local Development Review and Encroachment Permit Process

"Improving lives and communities through transportation"

3

Comment Letter 15 (page 4 of 4)

Please be advised that LDR's point of contact role will conclude upon the completion of the development entitlement process. Once project is entitled, the Encroachment Permit Office will serve as the primary point of contact moving forward. 15-10

Thank you again for including the Caltrans LDR Branch in the review process. Should you have any questions regarding this letter, or for future notifications and requests for review of new projects, please email LDR-D8@dot.ca.gov or call 909-925-7520. 15-11

Sincerely,

Janki Patel

Janki Patel
Branch Chief - Local Development Review
Division of Transportation Planning
Caltrans District 8

"Improving lives and communities through transportation"

4

Response to Comment Letter 15

Janki Patel, Branch Chief - Local Development Review
Division of Transportation Planning
California Department of Transportation, District 8
September 10, 2025

15-1 This comment provides a general introduction and includes a summary of the proposed Project's general location. Responses to specific comments are provided below.

15-2 This comment includes a general summary of the proposed Project and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

15-3 The commenter notes that the Project will require a Caltrans Encroachment Permit prior to construction.

As discussed on page 55 of the TIA, the Project will be conditioned to submit for a Caltrans Encroachment Permit application process prior to the signalization of the main access point on Airport Boulevard for consistency to applicable Caltrans standards and guidelines to the satisfaction of Caltrans Traffic Operations and Electrical Operations Functional Units.

An Encroachment Permit from Caltrans is already shown as a required permit in Table 2.5 in Section 2.0, Project Description, of the DEIR. Therefore, no changes to the DEIR are warranted.

15-4 This comment provides general instructions for the Encroachment Permit discussed above, from the Local Development Review Department. As discussed in Response 15-3, the Project will be conditioned to submit for a Caltrans Encroachment Permit, which will include compliance with the steps provided in this comment. No revisions to the DEIR are warranted relative to this comment.

15-5 The commenter states that, while Caltrans understands that the VMT impacts associated with this Project are considered significant and unavoidable, and that the applicant has proposed certain VMT mitigation measures, Caltrans strongly encourages the continued exploration and implementation of additional VMT reduction strategies, wherever feasible. The Project applicant will continue to coordinate on additional feasible VMT reduction through the Project phased development. Therefore, no revisions to the DEIR are warranted relative to this comment.

15-6 The commenter requests the following additions/revisions to the Project's Traffic Impact Analysis, from the Traffic Operations Department:

1. Please include detail layout plan of the Project included lane geometry, striping and spacing distance from the driveway access to the nearest intersection. (provide with readable engineering scale)

Please refer to Attachment I3, *Supplemental Transportation Exhibits (Replacement of the Airport Boulevard Bridge Over Whitewater River Project, Preliminary Project Overview Interim Striping) (Dokken Engineering, September 2024*), of this FEIR, which provides the information requested by the commenter. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies. These exhibits will be added to Section 4.17, *Transportation,* of the DEIR. This comment does not assert any issue that must be addressed further pursuant to CEQA Guidelines.

2. Please include the queueing analysis in the report.

   The queuing analysis is already included in Appendix L of the Project's TIA. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

15-7 The commenter requests the following additions/revisions to the Project's TIA, from the Traffic Forecasting & Analysis Department. It should be noted that the requested revisions are the preferences of the commenter only and do not affect the Project's transportation analysis or impacts.

1. Figure 1-2 identifies study intersections by number only and does not depict the study roadway segments listed in the report text. Per Caltrans TIA Guidelines, the project study area should be clearly documented for both intersections and roadway segments. Recommend (1) including a table cross-referencing each numbered intersection with its roadway names, including project access points, and (2) revising the figure to also show and label the study roadway segments so that all facilities identified in the study area description are consistently referenced in the text, figures, and LOS analysis tables.

Numbered intersections with roadway names are provided in the Project's TIA Executive Summary and Section 1.0, Project Introduction (Appendix I1 of the DEIR). Numbered roadway segments are provided in the Project's TIA Executive Summary and Section, 1.0 Project Introduction. Please refer to Attachment I2 of this FEIR, for the updated roadway segment tables and updated Figure 1-2. As mentioned above, the requested revisions are the preferences of the commenter only and do not affect the Project's transportation analysis or impacts.

2. The methodology for developing future volumes does not fully align with Caltrans TIA Guidelines. Per Section 4.3, base year model volumes must be validated against observed counts (PeMS/Caltrans ramp stations) and documented if adjustments exceed ~10%. The use of interpolated years (2027, 2030, 2033) should be justified against SCAG/RIVCOM official horizon years, and reliance on the NCHRP 255 Directional Volume Method may not be consistent with regional model practices for State facilities. In addition, capping 2045 volumes at the lower of 2033 or model 2045 outputs understates long-range growth and is inconsistent with the requirement to use adopted 2045 model outputs as the governing horizon year. Recommend revising the methodology to follow Caltrans TIA Guidelines and RTP/SCS horizon years for forecasting future traffic volumes.

There are no detectors and therefore, no available PeMS counts along the SR-86 or SR-111 facilities within the Project vicinity to validate base year model volumes. The approved scoping agreement in Appendix A of the Project's TIA (Appendix I1 of the DEIR) was coordinated with Caltrans to use the *Caltrans Guide for the Preparation of Traffic Impact Studies* (2002). Per section IV.D in the Caltrans Guide, the regional traffic model reflecting the most current land use and planned improvements was used. The methodology requested by the commenter is not included as an approved methodology in the Caltrans Guide. The future volume approach and methodology has been approved by the City of Coachella. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

3. Per Caltrans TIA Guidelines, the adopted SCAG/RIVCOM RTP/SCS horizon year (2045) should be used as the governing cumulative year. Furthermore, since the Project's final phase extends to 2033, cumulative analysis may also need to consider a 20-year horizon beyond buildout (~2053) to ensure long-range impacts on State facilities are fully addressed. Recommend revising the methodology accordingly.

Caltrans approved the scoping agreement in Appendix A of the Project's TIA (Appendix I1 of the DEIR) which specified the use of the *Caltrans Guide for the Preparation of Traffic Impact Studies* (2002). Per section III.B in the Caltrans Guide, the methodology requested by the commenter is not included as an approved methodology in the Caltrans Guide. The study scenarios have been approved by the City of Coachella. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

4. The TIA applies a 2% heavy vehicle share with SANBAG PCE factors. For State facility analysis, Caltrans typically references Highway Design Manual/HCM-based PCE standards. Recommend confirming that the truck mix and PCE assumptions used are consistent with Caltrans requirements for the SR-86 ramps or provide justification for use of SANBAG factors.

Please refer to the Attachment I2 of this FEIR for the updated SR-86 ramp intersections using truck percentages from the latest Caltrans Traffic Census Program Truck Traffic counts, which were revised in order to be consistent with Caltrans requirements for the SR-86 ramps, as noted by the commenter. The increase in heavy vehicle share requested by Caltrans did not change any of the traffic study conclusions. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

5. Distribution comes from a RIVCOM select-zone run, but the TIA does not include a distribution matrix or truck routing confirmation to/from designated truck routes (SR-86/CA-111). Recommend (1) appending an AM/PM distribution-by-approach table derived from the RIVCOM select-zone run, and (2) documenting truck routing to/from SR-86/CA-111 using the Caltrans Truck Network (with a note that no restricted local streets are used).

Please refer to Attachment I2 of this FEIR for the updated for distribution by approach figure and truck network discussion, which were revised in order to be consistent with Caltrans requirements. This additional information requested by Caltrans did not change any of the

traffic study conclusions. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

6. The TIA's existing traffic counts were collected on January 18, 2024, which falls within the same week as the Martin Luther King Jr. holiday. Per Caltrans TIA Guidelines, traffic counts should avoid holiday weeks or other atypical periods. Recommend either (a) verifying these counts against supplemental counts collected during a typical non-holiday week, or (b) providing confirmation using later 2024 counts or PeMS/Caltrans station data that January 18 conditions are representative. In addition, several appendix sections appear incomplete or blank; recommend revising the submittal to include the full supporting materials.

There are no detectors and therefore, no available PeMS counts along the SR-86 or SR-111 facilities within the Project vicinity to validate the existing counts. Additionally, scheduling of the traffic data collection was coordinated and approved by the City of Coachella to be conducted on the Thursday after the Monday holiday, with two days in between for traffic to normalize. The January 18, 2024, date is an appropriate date to conduct traffic counts and reflects typical, high-season conditions. In addition, the commenter is incorrect that several TIA appendix sections were not provided. All TIA appendix sections are provided including the full supporting materials; however, additional blank appendix cover slip sheets were erroneously inserted which appeared on PDF pages 212 - 226, which have since been removed from the overall appendices. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

7. Several items fall outside the scope of Traffic Forecasting & Analysis and should be reviewed in consultation with Caltrans Traffic Operations. These include (a) freeway/ramp operational analyses and 95th-percentile off-ramp queue checks, (b) reliance on CMP "Modified HCM 1999" methods versus Caltrans-approved operational methodologies, (c) provision of 5-year TASAS collision history at SR-86 ramp terminals and CA-111 intersections, (d) evaluation of ramp-area crossings and frontage facilities consistent with Caltrans Complete Streets policy, and (e) documentation of on-site stacking/queue containment for the fast-food drive-through and fuel bays. Please coordinate with Operations to determine whether additional HCM6 freeway/ramp analysis, safety evaluation, and site circulation checks are required.

The approved scoping memo dated December 13, 2023, was based on the Interim LDIGR Safety Review Practitioners Guidance published July 2020. The methodologies requested by the commenter were added to the Final version of the Guidance published February 2024 and are not applicable here since the approved December 13, 2023, scoping memo pre-dates the February 2024 version of the guidance. Therefore, no revisions to the Project's TIA or the DEIR are warranted relative to this comment.

15-8 This comment advises that the project must conform to American Disabilities Act (ADA) Standards requirements, and of the maintenance of bicycle and pedestrian access throughout the construction phase.

This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

15-9 This comment reiterates that any permanent work or temporary traffic control that encroaches onto Caltrans' ROW requires a Caltrans-issued encroachment permit and provides contact information for the Caltrans Office of Encroachment Permits.

This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

15-10 This comment identifies Caltrans' departmental responsibilities. This does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

15-11 The commenter concludes by providing a contact email and phone number for any questions associated with the above comments. Comment noted. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Comment Letter 16 (page 1 of 106)

Comment Letter No. 16

ADAMS BROADWELL JOSEPH & CARDOZO
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037
TEL: (650) 589-1660
FAX: (650) 589-5062
amarshall@adamsbroadwell.com

SACRAMENTO OFFICE
520 CAPITOL MALL, SUITE 350
SACRAMENTO, CA 95814-4721
TEL: (916) 444-6201
FAX: (916) 444-6209

KEVIN T. CARMICHAEL
CHRISTINA M. CARO
THOMAS A. ENSLOW
KELILAH D. FEDERMAN
RICHARD M. FRANCO
ANDREW J. GRAF
TANYA A. GULESSERIAN
DARION N. JOHNSTON
RACHAEL E. KOSS
AIDAN P. MARSHALL
ALAURA R. McGUIRE
ISABEL TAHIR

Of Counsel
DANIEL L. CARDOZO
MARC D. JOSEPH

September 11, 2025

Via Email and Overnight Mail
City of Coachella Development Services, Planning Division
Attn: Kendra Reif, Community Development Director
53990 Enterprise Way,
Coachella, CA 92236
Email: Kreif@coachella.org

Via Email Only
Nicole Sauviat Criste, Consulting Planner
Email: ncriste@terranovaplanning.com

Re: Comments on Draft Environmental Impact Report for Coachella Airport Business Park Project (SCH No. 2023040106)

Dear Ms. Reif and Ms. Criste:

We are writing on behalf of Californians Allied for a Responsible Economy ("CARE CA") regarding the Draft Environmental Impact Report ("DEIR") prepared by the City of Coachella ("City") for the Coachella Airport Business Park Project (SCH No. 2023040106) ("Project") proposed by Haagen Co., LLC (dba Empire Airport Co., LLC) ("Applicant").

The proposed Project site would be developed for industrial uses comprised of the following uses: large and small warehouse; personal vehicle storage and self-storage units; small business use spaces; a small retail and restaurant development; a 44-foot-tall electronic billboard sign located along the Project's small business frontage along SR 86; a fuel station with a convenience store; and associated landscaping, parking, lighting, and signage.[1] An Imperial Irrigation District ("IID") electrical substation facility would also be constructed as part of the Project, at the northern end of the overall Project site. The project would be located on northwest corner of SR 86 and Airport Blvd (APNs 763-330-013, -018, -029). 16-1

[1] DEIR, pg. ES-1, 2.

7982-005acp

Printed on recycled paper.

Comment Letter 16 (page 2 of 106)

We reviewed the DEIR with the assistance of air quality expert Dr. James Clark,[2] transportation expert Norm Marshall,[3] and noise expert Ani Toncheva.[4] The City must separately respond to these technical comments.

CARE CA's review of the DEIR, its supporting documentation, and City records demonstrates that the DEIR fails to comply with the requirements of the California Environmental Quality Act ("CEQA").[5] The DEIR omits key Project components from its discussion by failing to analyze impacts associated with a necessary water line extension, reasonably foreseeable use of onsite backup generators, and reasonably foreseeable cold storage uses of the proposed warehouse space. The DEIR fails to address potentially significant public health risks by omitting a discussion of, and mitigation for, Valley Fever risks to workers and nearby residents that would occur during construction activities. The DEIR also fails to disclose and mitigate significant health risks from exposure to Toxic Air Contaminants ("TACs") that will be emitted by the Project's fuel station and diesel truck trips. These emissions would be cumulatively significant under updated South Coast Air Quality Management District ("SCAQMD") thresholds, an impact that the DEIR fails to disclose and mitigate. 16-2

The DEIR's transportation analysis is unsupported. The DEIR fails to support its Vehicle Miles Travelled ("VMT") analysis with substantial evidence by relying on unsupported screening and significance thresholds that screen out the majority of the Project from analysis. The DEIR then compounds the errors in its transportation analysis by overestimating reductions from VMT mitigation and underestimating the distance travelled by trucks, resulting in underestimated air quality impacts from trucks and other mobile sources. The DEIR also finds that Project-related and cumulative VMT impacts would be significant and unavoidable, but Mr. Marshall identifies feasible mitigation that would further reduce the Project's impacts which the City must consider. 16-3

The DEIR fails to support its noise analysis and mitigation with substantial evidence. In particular, the DEIR's analysis of construction noise impacts fails to consider the increase over ambient noise levels. CARE CA's noise consultant found that construction activities would increase noise at nearby residences by 30 dBA.[6] The DEIR would not fully mitigate this impact. The DEIR fails to disclose 16-4

[2] Dr. Clark's technical comments and curricula vitae are attached hereto as **Exhibit A.**
[3] Mr. Marshall's technical comments and curricula vitae are attached hereto as **Exhibit B.**
[4] Ms. Toncheva's technical comments and curricula vitae are attached hereto as **Exhibit C.**
[5] PRC § 21100 et seq.
[6] Toncheva Comments, pg. 4.

Comment Letter 16 (page 3 of 106)

significant nighttime noise impacts during operation by assuming, without support, that none of the Project's industrial uses would operate at night. 16-4 Cont.

As a result of its shortcomings, the DEIR lacks substantial evidence to support its conclusions, violates CEQA's analytical requirements, and fails to properly mitigate the Project's significant environmental impacts. CARE CA urges the City to remedy the deficiencies in the DEIR by preparing a legally adequate revised DEIR and recirculating it for public review and comment.[7]

These comments are timely submitted in accordance with a limited extension of the comment period by the City of Coachella.[8] As will be explained in greater detail herein, the City provided an extension for CARE CA to submit its DEIR comments due to the City's failure to make DEIR appendices and other reference documents available throughout the entire comment period.[9] CARE CA reserves the right to provide supplemental comments at any and all later proceedings related to this Project.[10] 16-5

I. STATEMENT OF INTEREST

CARE CA is non-profit organization which advocates for protecting the environment and the health of their communities' workforces. The organization's members include Coachella residents Jose Quintero, Jesse Meraz, and Jesus Verdugo, as well as the District Council of Ironworkers and Southern California Pipe Trades DC 16, along with their members, their families, and other individuals who live and work in the City of Coachella and in Riverside County. These individuals and labor organization members may be adversely affected by the potential public and worker health and safety hazards, and the environmental impacts of the Project. 16-6

[7] We reserve the right to supplement these comments at later hearings on this Project. Gov. Code § 65009(b); Public Resources Code § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199–1203; *see Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

[8] **Exhibit D**: Email from Nicole Sauviat Criste, Consulting Planner, City of Coachella to Aidan P. Marshall re: Request for Extension of Public Review Period, Airport Business Park EIR (SCH No. 2023040106) (Tuesday, August 26, 2025) (stating "the City will allow CARE CA to submit comments no later than the close of business on September 11, 2025 and consider them timely.").

[9] Cal. Code Regs. Tit. 14, § 15105 (the minimum public review period for this document is 45 days).

[10] Gov. Code § 65009(b); PRC § 21177(a); *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal. App. 4th 1184, 1199-1203; *see Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal. App. 4th 1109, 1121.

printed on recycled paper

Comment Letter 16 (page 4 of 106)

CARE CA seeks to ensure a sustainable construction industry over the long-term by supporting projects that offer genuine economic and employment benefits, and which minimize adverse environmental and other impacts on local communities. CARE CA members live, work, recreate, and raise their families in the City of Brea and surrounding communities. Accordingly, they would be directly affected by the Project's environmental and health and safety impacts. Individual members may also work on the Project itself. They will be first in line to be exposed to any health and safety hazards that exist onsite. 16-6 Cont.

In addition, CARE CA has an interest in enforcing environmental laws that encourage sustainable development and ensure a safe working environment for its members. Environmentally detrimental projects can jeopardize future jobs by making it more difficult and more expensive for business and industry to expand in the region, and by making the area less desirable for new businesses and new residents. Indeed, continued environmental degradation can, and has, caused construction moratoriums and other restrictions on growth that, in turn, reduce future employment opportunities.

I. FAILURE TO PROVIDE ACCESS TO REFERENCE DOCUMENTS

1. The City Failed to Make DEIR Appendices and References Available During the Public Review Period

The City failed to provide timely access to documents referenced, relied upon and incorporated by reference in the DEIR during the public review and comment period, which originally ran from July 21, 2025, to September 3, 2025,[11] in violation of CEQA's requirement that the DEIR and all reference documents be made available during the comment period.[12] As a result, CARE CA had to request access to missing reference documents and an extension of the DEIR comment period, which was only partially granted. 16-7

On August 6, 2025, CARE CA submitted a letter to the City ("DEIR References Request"), pursuant to CEQA section 21092(b)(1) and CEQA Guidelines section 15087(c)(5), requesting "immediate access to any and all documents referenced, incorporated by reference, and relied upon" in the DEIR.[13] On August

[11] City of Coachella, Notice of Availability of The Draft Environmental Impact Report For The Coachella Airport Business Park Project
[12] Pub. Resources Code § 21092(b)(1); 14 C.C.R. § 15087(c)(5).
[13] Letter from Adams, Broadwell, Joseph & Cardozo ("ABJC") to City re: Request for Immediate Access to Documents Referenced in the Draft Environmental Impact Report– Coachella Airport Business Park Project (SCH No. 2023040106) (August 6, 2025).

printed on recycled paper

Comment Letter 16 (page 5 of 106)

12, 2025, the City sent a letter stating that records would be provided by September 4, 2025.[14]

On August 21, 2025, CARE CA submitted another letter to the City requesting missing DEIR reference documents, including Appendices C through G of Appendix B of the DEIR (containing the DEIR's health risk assessment's supporting calculations). Without these appendices, the accuracy of the Project's air quality and health risk analysis could not be meaningfully evaluated or verified. Also identified in CARE CA's letter were documents listed in the References sections of Appendices B, C, D, E1, E2, E3, F1, G2, and G3 which were not attached or made available via weblink. CARE CA's letter also requested an extension of the comment period for at least 45 days from the date on which the City releases these documents for public review.

On August 22, 2025, the City provided access to the missing appendices to Appendix B (the HRA's supporting calculations), acknowledging that they were not available.[15] However, the documents listed in the References sections of Appendices B, C, D, E1, E2, E3, F1, G2, and G3 have still not been made available. On August 26, 2025, the City stated that "the City does not believe that an extension to the public review period is warranted, but the City will allow CARE CA to submit comments no later than the close of business on September 11, 2025 and consider them timely."[16] While CARE CA utilized the extension provided by the City, the City's response provided insufficient time for public review of the missing DEIR reference documents, as required by CEQA. To comply with CEQA's requirement that the *entire* DEIR be circulated for 45 days[17] and be "readily accessible,"[18] the comment period should have been extended 45 days after all missing DEIR references documents were made available. 16-7 Cont.

Courts have held that the failure to provide even a few pages of CEQA documents for a portion of the review period invalidates the entire process, and that such a failure must be remedied by permitting additional public comment.[19] It is well settled that a CEQA document may not rely on hidden studies or documents

[14] Letter from City to ABJC re: City of Coachella - Public Records Act Requests (3) Received August 6, 2025 - Determination Letter (August 12, 2025).
[15] **Exhibit E**: Email from Nicole Criste to Aidan P. Marshall on 8/22/2025 ("As you note, Appendix B was missing its Appendix C through G. Those have been added and attached here, as well as on the City's website.")
[16] Exhibit A.
[17] Cal. Code Regs. Tit. 14, § 15105 (the minimum public review period for this document is 45 days).
[18] Cal. Code Regs. Tit. 14, § 15087(c).
[19] *Ultramar v. South Coast Air Quality Man. Dist.* (1993) 17 Cal.App.4th 689, 699.

printed on recycled paper

Comment Letter 16 (page 6 of 106)

that are not provided to the public.[20] Here, public review of the City's analysis of the Project's air emissions and health risk was substantially impaired without access to the DEIR Appendices' supporting calculations, which included the HRA's AERMOD files and risk calculation spreadsheets. Moreover, review of other analyses in the DEIR remains impaired without access to documents listed in the DEIR's References sections. The DEIR's review and comment period was thus improperly shortened, and several DEIR reference documents have not yet been released for public review.

16-7 Cont.

2. The City Has Not Produced Responsive Records in Response to CARE CA's Public Record Act Request

The City is in violation of the Public Records Act because the City has not provided timely access to public records related to the Project in response to a Public Records Act request submitted by CARE CA on August 6, 2025. CARE CA's letter requested for immediate access to any and all public records in the City's possession referring or related to the Project.[21] The request was made pursuant to the California Public Records Act,[22] Article I, section 3(b) of the California Constitution, and Section 7922.525 of the Public Records Act, which requires public records to be "open to inspection at all times during the office hours of a state or local agency" and provides that "every person has a right to inspect any public record."[23]

16-8

The City sent a determination letter on August 12, 2025, stating that responsive records would be made available on September 4, 2025 (almost a month after the request was filed). On September 4, the City sent a second determination letter containing a link purportedly containing responsive records. However, the link only contained the DEIR and its appendices–documents that were already publicly available. No other requested records have been made available, including correspondence, project application materials, or any other records identified in CARE CA's August 6, 2025 Public Records Act request. The City's September 4, 2025 letter further delayed access to records, stating that the City now anticipates an update or another production may be available beginning on September 24, 2025. No legally supportable reason was provided by the City for the 1 ½ month-

[20] *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831 ("Whatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.").
[21] Letter from Adams Broadwell Joseph & Cardozo to City re: Request for Immediate Access to Public Records – 3100 Wilshire Project (Case Nos. DIR-2023-3859-TOC-SPR-HCA, VTT-83914-CN-HCA, ENV-2023-3860-CE, and ENV-2023-3860-EAF) (January 31, 2024).
[22] Government Code §§ 7920.000, *et seq.*).
[23] Gov. Code §7922.525(a).

printed on recycled paper

Comment Letter 16 (page 7 of 106)

long delay in providing access to public records, and CARE CA has not yet received access to any responsive records. The City's failure to provide immediate access to the records is an ongoing violation of the California Public Records Act and the California Constitution. 16-8 Cont.

II. THE PROJECT DESCRIPTION IS INADEQUATE

The DEIR does not meet CEQA's requirements because it fails to include an accurate and complete Project description, rendering the entire analysis inadequate. California courts have repeatedly held that "an accurate, stable and finite project description is the *sine qua non* of an informative and legally sufficient EIR."[24] CEQA requires that a project be described with enough particularity that its impacts can be assessed.[25] Without a complete project description, the environmental analysis under CEQA is impermissibly limited, thus minimizing the project's impacts and undermining meaningful public review.[26] Accordingly, a lead agency may not hide behind its failure to obtain a complete and accurate project description.[27] 16-9

CEQA Guidelines section 15378 defines "project" to mean "the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment."[28] "The term "project" refers to the activity which is being approved and which may be subject to several discretionary approvals by governmental agencies. The term project does not mean each separate governmental approval."[29] Courts have explained that a complete description of a project must "address not only the immediate environmental consequences of going forward with the project, but also all "*reasonably foreseeable* consequence[s] of the initial project."[30] "If a[n]...EIR...does not adequately apprise all interested parties of the true scope of the project for intelligent weighing of the environmental consequences of the

[24] *Stopthemillenniumhollywood.com v. City of Los Angeles* (2019) 39 Cal.App.5th 1, 17; *Communities for a Better Environment v. City of Richmond* ("*CBE v. Richmond*") (2010) 184 Cal.App.4th 70, 85–89; *County of Inyo v. City of Los Angeles* (3d Dist. 1977) 71 Cal.App.3d 185, 193.
[25] 14 CCR § 15124; *see Laurel Heights Improvement Assn. v. Regents of Univ. of Cal* ("*Laurel Heights I*") (1988) 47 Cal.3d 376.
[26] *Id.*
[27] *Sundstrom v. County of Mendocino* ("*Sundstrom*") (1988) 202 Cal.App.3d 296, 311.
[28] CEQA Guidelines § 15378.
[29] *Id.*, § 15378(c).
[30] *Laurel Heights I*, 47 Cal. 3d 376, 398 (emphasis added); *see also Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal. 4th 412, 449-50.

printed on recycled paper

Comment Letter 16 (page 8 of 106)

16-9 Cont.

project, informed decision-making cannot occur under CEQA and the final EIR is inadequate as a matter of law."[31]

A. The DEIR Fails to Describe a New Water Line Extension Required for the Project

The DEIR states that "[t]he proposed Project would connect to a new water line extension through the CWA's [Coachella Water Authority's] proposed 20" water line from near Avenue 54 southerly along Grapefruit Boulevard, then easterly under the existing railroad tracks and the CVSC to the Project site."[32] The DEIR fails to clearly disclose the location and construction schedule of the planned water line. Dr. Clark estimates, based on the description provided in the DEIR, that construction of the water line will require approximately 1.5 miles of excavations to be completed from Avenue 54 to the Project Site.[33] The DEIR acknowledges that the water line on the Project site is not currently connected to existing water lines, stating that the proposed 20" line is necessary for the Project's operations.[34] And the DEIR states that CWA will supply water for the proposed Project.[35] However, the proposed 20" line is not included in the DEIR's analysis of the Project's impacts or in the cumulative impacts analysis.

16-10

Instead, the DEIR states that "CWA's new 20-inch water line extension from Grapefruit Boulevard is a separate project being undertaken by CWA with independent utility (including serving portions of the City located to the east of SR 86) and separate CEQA review",[36] indicating that the City intends to proceed with piecemealed environmental review of the water line extension from the rest of the Project. CEQA prohibits a project proponent from seeking approval of a large project in a piecemeal fashion in order to take advantage of environmental exemptions or lesser CEQA review for smaller projects.[37]

In *Banning Ranch Conservancy v. City of Newport Beach*,[38] the Court of Appeal stated that "there may be improper piecemealing when the reviewed project legally compels or practically presumes completion of another action."[39] A test for

---

[31] *Riverwatch v. Olivenhain Municipal Water Dist.* (2009) 170 Cal. App. 4th 1186, 1201.
[32] DEIR, pg. 2.0-6.
[33] Clark Comments, pg. 6.
[34] DEIR, pg. 4.10-2 ("Since CWA's water infrastructure does not currently extend to the site or its vicinity, the proposed Project would need to tie into CWA's future water line").
[35] DEIR, Appendix G3.
[36] DEIR, pg. 4.19-13
[37] *Arviv Enterprises, Inc. v. South Valley Area Planning Com.* (2002) 101 Cal. App. 4th at 1340.
[38] ("Banning Ranch"), 211 Cal.App.4th 1209.
[39] *Id.*

printed on recycled paper

Comment Letter 16 (page 9 of 106)

whether an activity is a component of a project is if the activity "is a crucial functional element" of the project such that, without it, the project could not proceed.[40] "On the other hand, two projects may properly undergo separate environmental review (i.e., no piecemealing) when the projects have different proponents, serve different purposes, or can be implemented independently."[41]

In *San Joaquin Raptor/Wildlife Rescue Ctr. v County of Stanislaus*, the Fifth District Court of Appeal rejected an EIR for a housing project that did not include construction of sewer lines and expansion of a wastewater treatment plant designed to serve the project.[42] The court held that the project description violated CEQA because "[s]ewer expansion was recognized by the DEIR as necessary to the project, yet was excluded from the description of the development project and its effects ignored in the FEIR... The FEIR was thus premised on an improperly "curtailed" and "distorted" project description."[43] The court noted that the plant may have "excess sewer capacity which would then 'accommodate additional residential growth within the Town of Grayson.'"[44] The court explained that "even assuming the sewer expansion was severable from the development project, the FEIR still did not comply with CEQA." The court reasoned that "even were the sewer expansion deemed to be a separate 'project,' Public Resources Code section 21083 requires that the cumulative environmental effects of the development project plus the "expansion project" must be considered in the FEIR."[45]

16-10 Cont.

This EIR is analogous to the one rejected in *San Joaquin Raptor*. Here, because "the proposed Project ***would need*** to tie into CWA's future water line,"[46] the Project "practically presumes completion" of the proposed 20" water line. The fact that the DEIR's water supply assessment assumes CWA will be supplying water to the Project "practically presumes completion" of the proposed 20" water line. For the same reason, the water line is a "crucial functional element" of the Project. Thus, a full description of the water line and its environmental impacts must be included in the DEIR.

---

[40] *Communities for a Better Env't v City of Richmond* (2010) 184 CA4th 70, 99.
[41] *Banning Ranch Conservancy v. City of Newport Beach* (2012) 211 Cal.App.4th 1209, 1223; *Del Mar Terrace Conservancy, Inc. v City Council* (1992) 10 CA4th 712, 736.
[42] *San Joaquin Raptor/Wildlife Rescue Ctr. v County of Stanislaus* (1994) 27 CA4th 713.
[43] *Id.* at 730-731.
[44] *Id.* at 733.
[45] *Id.*
[46] DEIR, pg. 4.10-2; *see* pg. 4.19-13 ("The CWA will supply water to the proposed Project, which will require the construction of new onsite water and wastewater facilities and will require connection to CWA facilities.").

printed on recycled paper

Comment Letter 16 (page 10 of 106)

Even if CWA applies for separate entitlements to construct the water line, per *San Joaquin Raptor*, the Project's EIR would still need to analyze its cumulative effects, which the DEIR fails to do. The DEIR does not analyze impacts from construction of the water line in combination with construction of the main Project, resulting in a failure to disclose the entirety of the Project's impacts (either as a single project or cumulatively). Dr. Clark explains that the Project's air quality impacts are underestimated because construction of the line is not included in the description of the Project's phasing or in the air quality models.[47] Health risk impacts are also consequently underestimated, as construction activities result in emissions of DPM. Noise and vibration impacts are underestimated, as construction equipment used in construction of the line will generate noise and vibration. Impacts on biological resources may be impacted, depending on where the line is constructed. 16-10 Cont.

By failing to analyze impacts associated with construction of the water line which the DEIR acknowledges is necessary for the Project's operations, the DEIR fails to analyze the "whole of the action."[48] The EIR must be revised and recirculated to describe and analyze these impacts.

B. Use of Back-Up Generators is a Reasonably Foreseeable Component of the Project

The DEIR's discussion of the Project's air quality and health risk impacts fails to describe the reasonably foreseeable use of back-up generators. The DEIR's CalEEMod analysis of criteria air pollutants fails to include emissions from backup generators,[49] and the DEIR's quantitative and qualitative discussion of health risk impacts fails to disclose use of back-up generators. The DEIR's analysis indicates that use of back-up generators is reasonably foreseeable: "[n]oise sources commonly associated with warehouse uses typically include mechanical equipment such as backup power generators... operational noise levels associated with backup power generators can reach levels of approximately 78 dBA Leq at 50 feet."[50] Also, the use of backup generators is a reasonably foreseeable activity during Project operation due to the prevalence of power safety shutoffs, extreme heat events, and other emergencies which lead to temporary losses of power. 16-11

In *East Oakland Stadium Alliance v. City of Oakland*,[51] the Court of Appeal upheld an EIR's analysis of emissions from backup generators. The EIR's analysis

[47] Clark Comments, pg. 6.
[48] CEQA Guidelines section 15378.
[49] Clark Comments, pg. 16.
[50] DEIR, pg. 4.13-20.
[51] (2023) 889 Cal. App. 5th 1226.

printed on recycled paper

Comment Letter 16 (page 11 of 106)

assumed that generators would operate for 50 hours of testing and maintenance annually, while allocating no time for actual emergency use. In discussing the lead agency's duty to analyze backup generator emissions, the Court stated that "if the annual need for emergency generator use is reasonably foreseeable, the EIR was not entitled to disregard such use merely because it would occur at unpredictable times."[52] The Court explained that use of a generator was reasonably foreseeable because, "[a]s noted in the EIR, some parts of the Bay Area are subject to predictable, sustained power outages undertaken to reduce the risk of fire."[53] Thus, "[t]he EIR was required to make neither a generally applicable nor a worst-case assumption; rather it was required to make a reasonable estimate of likely annual use of the generators at the project site."[54]

Here, as in *East Oakland Stadium Alliance*, backup generator emissions are a reasonably foreseeable consequence of the Project due to increasingly common Public Safety Power Shutoff ("PSPS") events and extreme heat events ("EHE"). EHEs are defined as periods where in the temperatures throughout California exceed 100 degrees Fahrenheit.[55] From January 2019 through December 2019, Southern California Edison reported 158 of their circuits underwent a PSP event.[56] In Los Angeles County, two circuits had 4 PSPS events during that period, lasting an average of 35 to 38 hours. The total duration of the PSPS events lasted between 141 hours to 154 hours in 2019. According to the California Public Utilities Commission ("CPUC") de-energization report[57] in October 2019, there were almost 806 PSPS events that impacted almost 973,000 customers (~7.5% of households in California). The California Air Resources Board estimates that with 973,000 customers impacted by PSPS events in October 2019, approximately 125,000 back-up generators were used by customers to provide electricity during power outages.[58] The widespread use of back-up generators to adapt to PSPS and EHE events suggests that back-up generators are a reasonably foreseeable consequence of the Project. In addition to emergency use, any generators included in the Project would be operated for routine testing.

16-11 Cont.

[52] *Id.* at 1252.
[53] *Id.* at 1253.
[54] *Id.*
[55] Governor of California. 2021. Proclamation of a state of emergency. June 17, 2021.
[56] SCAQMD. 2020. Proposed Amendment To Rules (PARS) 1110.2, 1470, and 1472. Dated December 10, 2020. http://www.aqmd.gov/docs/default-source/rule-book/Proposed-Rules/1110.2/1110-2_1470_1472/par1110-2_1470_wgm_121020.pdf?sfvrsn=6.
[57] https://www.cpuc.ca.gov/deenergization/ as cited in CARB, 2020. Potential Emission Impact of Public Safety Power Shutoff (PSPS), Emission Impact: Additional Generator Usage associated With Power Outage.
[58] California Air Resources Board, Emission Impact: Additional Generator Usage Associated with Power Outage (January 30, 2020), available at https://ww2.arb.ca.gov/resources/documents/emissions-impact-generator-usage-during-psps.

printed on recycled paper

Comment Letter 16 (page 12 of 106)

Generators can emit criteria air pollutants, greenhouse gases, and toxic air contaminants. This equipment commonly relies on fuels such as natural gas or diesel,[59] and thus can significantly impact public health through diesel particulate matter ("DPM") emissions.[60] This equipment can emit significant amounts of NOx, sulfur dioxides ("SO2"), particulate matter ("PM10"), carbon dioxide ("CO2"), carbon monoxide ("CO"), volatile organic compounds ("VOC"), particulate matter less than 10 microns ("PM_{10}"), PM less than 2.5 microns ("$PM_{2.5}$"), and air toxins such as DPM.[61] The DEIR's omission of onsite generator emissions thus results in an underestimation of the Project's air quality, greenhouse gas, and health risk impacts.

16-11
Cont.

[59] SCAQMD, Fact Sheet on Emergency Backup Generators, http://www.aqmd.gov/home/permits/emergency-generators ("Most of the existing emergency backup generators use diesel as fuel").
[60] California Air Resources Board, Emission Impact: Additional Generator Usage Associated with Power Outage (January 30, 2020), available at https://ww2.arb.ca.gov/resources/documents/emissions-impact-generator-usage-during-psps (showing that generators commonly rely on gasoline or diesel, and that use of generators during power outages results in excess emissions); California Air Resources Board, Use of Back-up Engines for Electricity Generation During Public Safety Power Shutoff Events (October 25, 2019), available at https://ww2.arb.ca.gov/resources/documents/use-back-engines-electricity-generation-during-public-safety-power-shutoff ("When electric utilities de-energize their electric lines, the demand for back-up power increases. This demand for reliable back-up power has health impacts of its own. Of particular concern are health effects related to emissions from diesel back-up engines. Diesel particulate matter (DPM) has been identified as a toxic air contaminant, composed of carbon particles and numerous organic compounds, including over forty known cancer-causing organic substances. The majority of DPM is small enough to be inhaled deep into the lungs and make them more susceptible to injury. Much of the back-up power produced during PSPS events is expected to come from engines regulated by CARB and California's 35 air pollution control and air quality management districts (air districts)").
[61] University of California, Riverside Bourns College of Engineering—Center for Environmental Research and Technology, Air Quality Implications Of Backup Generators In California, (March 2005), pg. 8, available at https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=84c8463118e4813a117db3d768151a8622c4bf6b; South Coast AQMD, Fact Sheet on Emergency Backup Generators ("Emissions of Nitrogen Oxides (NOx) from diesel-fired emergency engines are 200 to 600 times greater, per unit of electricity produced, than new or controlled existing central power plants fired on natural gas. Diesel-fired engines also produce significantly greater amounts of fine particulates and toxics emissions compared to natural gas fired equipment."), available at http://www.aqmd.gov/home/permits/emergency-generators#Fact2.

printed on recycled paper

Comment Letter 16 (page 13 of 106)

C. The DEIR Fails to Analyze Impacts Associated with Reasonably Foreseeable Warehouse Uses

The DEIR assumes that none of the Project's 329,100 sf of warehouse space would be used for cold storage.[62] However, the DEIR fails to identify any condition of approval or mitigation measure precluding cold storage.[63] Thus, cold storage is a possible consequence of the Project. Because impacts associated with cold storage are not analyzed in the DEIR, the DEIR fails to analyze "the whole of the action."

Cold storage is a reasonably foreseeable consequence of the project. The court in *Maintain Our Desert Environment v. Town of Apple Valley* explained that "land use entitlements such as conditional use permits and development approvals run with the land and do not belong to the permittee.... had [the developer] developed the Project and then held it out for sale to any interested buyer, no additional CEQA review would have been necessary for the new owner so long as the use was consistent with that that had already been approved."[64] Here, even if the proposed warehouse space proposed is not currently envisioned as cold storage by Applicant, the Project approvals would allow this use. Specifically, the Project proposes rezoning the Project site to MS-IP (Manufacturing Services – Industrial Park Overlay).[65] Section 17.30.020 of the Coachella Municipal Code identifies "ice and cold storage plant" as a permitted use in the Manufacturing Service zone. Therefore, the impacts of reasonably foreseeable cold storage uses must be analyzed in the DEIR. 16-12

The DEIR's assumption that the Project will include no cold storage uses results in underestimation of health risk, air quality, energy, GHG, and noise impacts. Cold storage generates more trips per square foot and has higher energy impacts due to the low temperatures required by transport refrigeration units ("TRUs") and on-site storage. TRUs are refrigeration systems powered by integral diesel engines.[66] The refrigeration systems are used to control the environment of temperature-sensitive products transported in insulated trucks, trailers, shipping containers, or railcars. The California Air Resources Board ("CARB") states that TRUs emit DPM, PM2.5, oxides of nitrogen ("NOx"), and GHGs while in transit and during stationary operation at refrigerated warehouses or distribution centers, grocery stores, seaport facilities, intermodal railyards, and other locations of

[62] DEIR, Appendix B, pg. 2.
[63] DEIR, Appendix B, pg. 53.
[64] *Maintain Our Desert Environment v. Town of Apple Valley, supra,* 124 Cal.App.4th at 444.
[65] DEIR, pg. 2.0-3.
[66] California Air Resources Board, 2022 TRU Technology Assessment, pg. 1, https://ww2.arb.ca.gov/sites/default/files/2022-10/CARB%202022%20TRU%20Technology%20Assessment%2010-14-22.pdf.

printed on recycled paper

Comment Letter 16 (page 14 of 106)

operation. CARB explains that communities near facilities where TRUs operate bear a disproportionate health burden:

> PM2.5 pollution contributes to more fatalities than other air pollutants and can lodge deep in the lungs or pass through the lungs to enter the blood stream and affect the heart, brain, and other organs. Adverse health effects from long-term exposure to PM2.5 pollution include increased risk of heart attacks and heart disease, impaired lung development in children, the development and exacerbation of asthma, and premature death. NOx is a precursor to ozone, which can cause irritation and damage lung tissue, worsen asthma and chronic illnesses including obstructive pulmonary disease and reduce lung function.[67]

CARB also explains that TRUs' emissions of GHGs contribute towards climate change,[68] and that TRUs generate noise impacts: "TRU operations produce noise that can be problematic when deliveries that often occur late evening or early morning are near residential neighborhoods, hotels, hospitals, and elder care facilities... One study conducted by LSA Associates found that a diesel-powered TRU operating at high idle produces an A-weighted decibel (dBA) noise rating of 104 dBA, while a diesel truck at idle produces a noise rating of 96 dBA."[69]

16-12 Cont.

In the California Attorney General's ("AG") guidance for warehouse projects, the AG recommends that, unless a developer adopts mitigation measures limiting cold storage impacts, the developer should record a covenant on the title of the underlying property to ensuring that the property cannot be used to provide refrigerated warehouse space.[70] The City should include such title restrictions for this Project unless an EIR is prepared that analyzes and mitigates impacts associated with reasonably foreseeable cold storage uses and other more intensive warehousing uses.

---

[67] California Air Resources Board, 2022 TRU Technology Assessment, pg. 10.
[68] California Air Resources Board, 2022 TRU Technology Assessment, pg. 10.
[69] California Air Resources Board, 2022 TRU Technology Assessment, pg. 17-18.
[70] *Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act (Updated September 2022)*, pg. 9, available at https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf ("Unless the owner of the facility records a covenant on the title of the underlying property ensuring that the property cannot be used to provide refrigerated warehouse space, constructing electric plugs for electric transport refrigeration units at every dock door and requiring truck operators with transport refrigeration units to use the electric plugs when at loading docks.").

printed on recycled paper

Comment Letter 16 (page 15 of 106)

III. THE DEIR FAILS TO DISCLOSE, ANALYZE AND MITIGATE POTENTIALLY SIGNIFICANT IMPACTS

An EIR must fully disclose all potentially significant impacts of a Project and implement all feasible mitigation to reduce those impacts to less than significant levels. The lead agency's significance determination with regard to each impact must be supported by accurate scientific and factual data.[71] An agency cannot conclude that an impact is less than significant unless it produces rigorous analysis and concrete substantial evidence justifying the finding.[72]

Even when the substantial evidence standard is applicable to agency decisions to certify an EIR and approve a project, reviewing courts will not 'uncritically rely on every study or analysis presented by a project proponent in support of its position. A clearly inadequate or unsupported study is entitled to no judicial deference.'"[73]

16-13

Moreover, the failure to provide information required by CEQA is a failure to proceed in the manner required by CEQA.[74] Challenges to an agency's failure to proceed in the manner required by CEQA, such as the failure to address a subject required to be covered in an EIR or to disclose information about a project's environmental effects or alternatives, are subject to a less deferential standard than challenges to an agency's factual conclusions.[75] In reviewing challenges to an agency's approval of an EIR based on a lack of substantial evidence, the court will "determine de novo whether the agency has employed the correct procedures, scrupulously enforcing all legislatively mandated CEQA requirements."[76]

Additionally, CEQA requires agencies to commit to all feasible mitigation measures to reduce significant environmental impacts.[77] In particular, the lead agency may not make required CEQA findings, including finding that a project impact is significant and unavoidable, unless the administrative record demonstrates that it has adopted all feasible mitigation to reduce significant environmental impacts to the greatest extent feasible.[78]

---

[71] CEQA Guidelines § 15064(b).
[72] *Kings Cty. Farm Bur. v. Hanford* (1990) 221 Cal.App.3d 692, 732.
[73] *Berkeley Jets*, 91 Cal.App.4th at 1355.
[74] *Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236.
[75] *Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 435.
[76] *Id., Madera Oversight Coal., Inc. v. County of Madera* (2011) 199 Cal. App. 4th 48, 102.
[77] CEQA Guidelines § 15002(a)(2).
[78] PRC § 21081(a)(3), (b); CEQA Guidelines §§ 15090, 15091; *Covington v. Great Basin Unified Air Pollution Control Dist.* (2019) 43 Cal.App.5th 867, 883.

printed on recycled paper

Comment Letter 16 (page 16 of 106)

A. The DEIR Fails to Disclose and Mitigate Potentially Significant Health Risk from Exposure to Valley Fever

The DEIR fails to disclose, analyze, and mitigate exposure to *Coccidiodes Immitis* (Valley Fever cocci) on the Project site. The DEIR fails to include any discussion or mitigation of this impact. Dr. Clark's comments describe the health risks associated with Valley Fever, its potential for being present on the Project site, and feasible mitigation measures that should be implemented by the City.

Dr. Clark explains that when soil containing cocci spores are disturbed by construction activities, the fungal spores become airborne, exposing construction workers and other nearby sensitive receptors.[79] Valley fever is the initial form of coccidioidomycosis infection, and can develop into a more serious disease, including chronic and disseminated coccidioidomycosis.[80] This puts workers and nearby residents at risk, particularly during digging activities.[81] Dr. Clark states that disturbed spores could be blown into the mobile home community south of the Project site.[82] Valley Fever risks are potentially significant for development of this Project site. Dr. Clark reviewed data demonstrating that Coachella has rates of Valley Fever up to 20 per 100,000.[83] Valley Fever rates in the area have increased 30% since 2022, demonstrating that this risk will continue to rise.[84] 16-14

The DEIR is inadequate as an informational document because it fails to disclose a significant effect on public health. CEQA Guidelines Section 15065(a)(4) provides that the City is required to find that a project will have a significant impact on the environment if the environmental effects of a project will cause a substantial adverse effect on human beings.[85] Workers' and nearby residents' potential exposure to Valley Fever from Project construction activities constitutes a substantial adverse effect on human beings.

---

[79] Clark Comments, pg. 7.
[80] *Id.* at 10.
[81] *Id.* at 8.
[82] *Id.* at 10
[83] *Id.* at 8.
[84] *Id.* at 7.
[85] PRC § 21083(b)(3), (d); *see Cal. Build. Indust. Ass'n v. BAAQMD* (2015) 62 Cal.4th 369, 388-90 (*"CBIA v. BAAQMD"*) (disturbance of toxic soil contamination at project site is potentially significant impact requiring CEQA review and mitigation); *Madera Oversight Coalition v. County of Madera* (2011) 199 Cal. App. 4th 48, 82; *Berkeley Keep Jets Over the Bay Com. v. Bd. of Port Comrs. ("Berkeley Jets")* (2001) 91 Cal.App.4th 1344, 1370-71.

printed on recycled paper

Comment Letter 16 (page 17 of 106)

The DEIR also fails to accurately describe the environmental setting. CEQA requires that a lead agency include a description of the physical environmental conditions in the vicinity of the Project as they exist at the time environmental review commences.[86] Use of the proper baseline is critical to a meaningful assessment of a project's environmental impacts.[87] By failing to disclose existing Valley Fever incident rates, the DEIR fails to accurately evaluate the likelihood of exposure to Valley Fever cocci on the Project site during Project construction and operation. 16-14 Cont.

The DEIR also fails to mitigate this potentially significant impact. Dr. Clark explains that compliance with standard dust control regulations such as SCAQMD Rule 403 do not meaningfully reduce Valley Fever risks.[88] Conventional dust control measures do not prevent the spread Valley Fever because they largely focus on visible dust or larger dust particles—the PM_{10} fraction—not the very fine particles where the Valley Fever spores are found.[89] Dr. Clark proposes feasible and effective mitigation measures that must be considered in a revised DEIR that acknowledges the potentially significant risk of exposure to Valley Fever.[90]

In sum, the DEIR must be revised to disclose and mitigate this impact in a recirculated EIR.

B. The DEIR Fails to Adequately Analyze and Mitigate Significant Transportation Impacts

1. The City's VMT Thresholds Are Not Supported by Substantial Evidence

16-15

The DEIR applies VMT screening and significance thresholds that are unsupported by substantial evidence. The DEIR states: "[t]he City of Coachella has yet to adopt Senate Bill 743 (SB 743) guidelines and therefore, the VMT analysis was based upon the methodology and significant threshold criteria identified in the County of Riverside Transportation Analysis (TA) Guidelines for Level of Service (LOS) and Vehicle Miles Traveled, December 2020 (Guidelines)."[91] The DEIR fails

[86] CEQA Guidelines, § 15125, subd. (a).
[87] *Communities for a Better Environment v. South Coast Air Quality Management District* (2010) 48 Ca.4th 310, 320.
[88] Clark Comments, pg. 10.
[89] Clark Comments, pg. 11.
[90] *Id.* at 12-13.
[91] DEIR, Appendix I, PDF pg. 489.

printed on recycled paper

Comment Letter 16 (page 18 of 106)

to provide substantial evidence that these thresholds are appropriate for local conditions.[92]

In *Cleveland National Forest Foundation, et al. v. County of San Diego,*[93] the Fourth District Court of Appeal held that two screening thresholds of significance for VMT impacts adopted by the County of San Diego as part of its 2022 Transportation Study Guide were invalid because they were unsupported by substantial evidence. At issue were two of County's screening thresholds: its "infill" and "small project" thresholds. The "small project" threshold exempted from VMT analysis a residential or office project that is expected to generate fewer than 110 daily automobile trips."[94] The County adopted this threshold based on Office of Planning and Research recommendations, but failed to make any adjustment for local VMT or how it compares to the statewide average.[95]

16-15 Cont.

The Court invalidated the County's small project screening threshold as lacking the required substantial evidence support showing that projects screened out under it would likely cause a less-than-significant transportation effect in the County.[96] The Court rejected County's arguments that it was allowed to simply adopt another agency's significance threshold without such a showing and that statewide goals can automatically be used as local thresholds.[97] Rather, "substantial evidence in this context includes evidence that the threshold applies as intended in the local conditions."[98] OPR's recommendation alone could not excuse County's failure to provide any evidentiary support for applying the no significant impact assumption under local conditions. The County acknowledged OPR's small project threshold was based on evaluating projects statewide, not in a single jurisdiction, and it made "no effort... to develop any evidence that small projects generating 110 or fewer trips are likely to cause a less than significant transportation effect in San Diego County."[99]

Here, the City's reliance on County separate screening and significance thresholds, and assumption that the Project is a "mixed-use" project, are similarly

---

[92] Guidelines, § 15064.7, subd. (c) [agency's adoption of another agency's threshold must be supported by substantial evidence].)
[93] *Cleveland National Forest Foundation, et al. v. County of San Diego* (2025) 109 Cal.App.5th 948.
[94] *Id.* at 956.
[95] *Id.* at 965.
[96] *Id.*
[97] *Id.*
[98] *Id.* (Citing *Center for Biological Diversity v. Department of Fish & Wildlife* (2015) 62 Cal.4th 204, 226-227 [as explaining "statewide criterion is an acceptable significance threshold only if there is substantial evidence to support its application to a specific project"].)
[99] *Id.* at 966.

printed on recycled paper

Comment Letter 16 (page 19 of 106)

unsupported. As in *Cleveland National Forest Foundation*, the County thresholds were "developed by evaluating projects across the [County] and [were] not developed based on a single jurisdiction."[100] As in *Cleveland National Forest Foundation*, the DEIR does not present evidence that the County's significance thresholds or screening thresholds are appropriate for projects in the City of Coachella. Indeed, as discussed below, Mr. Marshall finds that the DEIR's interpretation of County VMT guidance is unsupported and resulted in the omission of the Project's small warehouse uses from its VMT analysis of the Project's industrial components.[101] The DEIR's analysis is thus unsupported by substantial evidence in violation of CEQA.

16-15 Cont.

2. The DEIR Fails to Analyze the VMT Impacts of Major Project Components

The DEIR improperly claims that major components of the Project screen out of a VMT analysis and thus fails to analyze and mitigate their impacts. The DEIR acknowledges that the 233,000 sf warehouse does not screen out of a VMT analysis and correctly identifies that it would have a significant impact.[102] But the DEIR fails to analyze the other Project components, which include Small Warehouses, Small Business, Personal Vehicle Storage, Self-Storage, and Retail.[103] The total industrial square footage proposed by the Project is 624,500 square feet, so failure to analyze VMT from these other uses results in a failure to meaningfully analyze the bulk of the Project.[104]

16-16

The DEIR's rationale for screening out the other non-retail uses is that "[t]he [Riverside] County Guidelines recommend evaluation of each land use separately in case of a mixed-use project."[105] Mr. Marshall explains that the DEIR misapplies this guidance; the Project's does not likely constitute a mixed-use project.[106] First, he explains that the term "mixed-use," as used in the County guidelines, appears to refer to projects that have a dense mix of residential and retail uses.[107] This Project's mix of industrial buildings of various sizes would not fit this designation.

[100] *Id.* at 965.
[101] Marshall Comments, pp. 2-3.
[102] DEIR, Appendix I, PDF pg. 490; Marshall Comments, pg. 2.
[103] DEIR, Appendix B, PDF pg. 9; Marshall Comments, pg. 2.
[104] City, Notice of Availability and Completion of the Draft Environmental Impact Report for the Coachella Airport Business Park Project, pg. 1.
[105] DEIR, pg. 4.17-30; Marshall Comments, pg. 2.
[106] Marshall Comments, pg. 2-3.
[107] *Id.* at 3.

printed on recycled paper

Comment Letter 16 (page 20 of 106)

Mr. Marshall also explains that even if the term "mixed-use" applied broadly to projects with a mix of non-residential uses, the Project's mix of industrial buildings would not be considered diverse enough to be considered different uses. Specifically, the County guidelines recommend that analysis of mixed-use projects be done by applying either the EPA's MXD Model or the Institute of Traffic Engineers ("ITE") mixed-use trip generation methodology.[108] Mr. Marshall explains that neither of these tools split land use down to the level done in the DEIR when doing VMT screening.[109]

16-16 Cont.

Mr. Marshall notes that the DEIR itself groups most of the Project components together as "industrial park," excluding only the fast-food restaurant, convenience store, and mini-warehouse uses.[110] The DEIR's approach would allow nearly any industrial park project to screen out of a VMT analysis. This demonstrates that the DEIR lacks substantial evidence for its methodology that most of the Project's components screen out of a VMT analysis, and renders the DEIR's VMT analysis unsupported.

3. The DEIR Fails to Fully Mitigate the Project's Significant VMT Impacts

The DEIR finds that Project-related and cumulative VMT impacts would be significant and unavoidable.[111] To reduce the significant VMT impacts, the DEIR includes a vanpooling measure in MM-GHG-1:

> The Project Applicant shall require any business that operates in the proposed project and has 20 or more full-time employees shall implement at least one of the following programs:
>
> o Pre-tax election program to allow employees to exclude wages for commuting costs for transit or vanpools;
> o An employer supplied transit pass;
> o Employer provided transit; or
> o Other, similar demand management programs.[112]

16-17

The DEIR calculates that this measure would reduce impacts by 3.55%, relying on a calculation in California Air Pollution Control Officers Association

[108] *Id.*
[109] *Id.*
[110] *Id.*; DEIR, pg. 4.17-7 - 4.17-9.
[111] DEIR, pg. ES-23.
[112] DEIR, pg. 4.3-23.

printed on recycled paper

Comment Letter 16 (page 21 of 106)

("CAPCOA") Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity.[113] Mr. Marshall observes that this calculation would only apply to a vanpool measure where the employer covers "... the capital costs of vehicle acquisition and the labor costs of drivers, either through incentives to current employees or the hiring of dedicated drivers."[114] The Handbook definition requires substantial payments by employers above wages; but MM-GHG-1 requires no additional payments, and only paperwork to make the employee costs pre-tax.[115] Therefore, the Handbook formula is not applicable to the vanpool measure in MM-GHG-1. The reduction claimed in the DEIR is thus not supported by substantial evidence.

16-17 Cont.

Before an impact can be declared significant and unavoidable, the lead agency must first adopt all feasible mitigation to reduce impact to greatest extent feasible.[116] Mr. Marshall explains that a project can achieve an up to 20.4% reduction in employee commute VMT if a vanpool measure is compliant with the CAPCOA Handbook.[117] To reduce the Project's significant VMT impact to the greatest extent feasible, MM-GHG-1's vanpool measure must be revised to meet the Handbook's definition.[118]

C. The DEIR Fails to Adequately Analyze Mobile Source Air Quality Impacts

1. The DEIR's Air Quality Analysis Overestimates VMT Mitigation

The air quality analysis assumes a 5% VMT reduction from "Measure T-6, Implement Commute Trip Reduction Program (Mandatory)."[119] Reducing VMT would result in a reduction in mobile source emissions. The air study states: "[T]he CalEEMod Mitigation Measure T-6 – Implement Commute Trip Reduction Program was selected for 20 percent of employees in order to account for Mitigation Measure 3, that requires any business within the proposed project that has 20 or more full-time employees to implement a commute trip reduction program."[120] Mitigation

16-18

[113] DEIR, Appendix B, pg. 73; Marshall Comments, pg. 4.
[114] Marshall Comments, pg. 4.
[115] *Id.*
[116] Pub. Res. Code § 21081; 14 CCR §§ 15090, 15091; Covington v. GBUAPCD (2019) 43 Cal.App.5th 867, 879-883.
[117] Marshall Comments, pg. 4.
[118] Marshall Comments, pg. 4.
[119] DEIR, Appendix B, PDF pg. 118, 186-187; Marshall Comments, pg. 4.
[120] DEIR, Appendix B, PDF pg. 52.

printed on recycled paper

Comment Letter 16 (page 22 of 106)

Measure 3 corresponds to a vanpool measure in MM-GHG-1.[121] But this reduction is not supported by substantial evidence.

Mr. Marshall observes that the DEIR's transportation study calculates that the vanpool measure would only reduce VMT by 3.55%.[122] Thus, the air quality study overestimates emissions reductions from the measure.[123] Mr. Marshall further explains that a 3.55% reduction is likely an overestimation.[124] As explained above, the DEIR's mitigation measure lacks features set forth in the CAPCOA Handbook.[125] As a result, the DEIR's estimated 3.55% VMT reduction would overestimate actual reductions, resulting in higher levels of unmitigated emissions than disclosed in the DEIR. 16-18 Cont.

The DEIR's flawed air quality analysis must be revised in a recirculated EIR.

2. The DEIR Underestimates Emissions from Warehouse Truck Trips

The DEIR underestimates the distances of the truck trips associated with the Project's warehouse uses, which consequently underestimates the Project's emissions of criteria air pollutants and GHGs.

The DEIR's CalEEMod air quality analysis assumes an average trip length of 8.62 miles.[126] Mr. Marshall explains that the 8.62 mile trip length is a default CalEEMod trip length and does not reflect reasonably foreseeable distances travelled by trucks to and from this particular Project.[127] Reliance on a default trip length is entirely unsupported.[128] Dr. Clark and Mr. Marshall's comments demonstrate that the Ports of Los Angeles and Long Beach are a major destination of warehouse truck trips in Southern California, and should be used to calculate average truck trips for the Project.[129] The distance to the Ports of Los Angeles and Long Beach is approximately 150 miles from the Project site.[130] Dr. Clark and Mr. Marshall's assessment is consistent with SCAQMD's own approach. SCAQMD has 16-19

[121] DEIR, pg. ES-15.
[122] DEIR, Appendix I, PDF pg. 73.
[123] Marshall Comments, pg. 4.
[124] *Id.*
[125] Marshall Comments, pg. 4.
[126] Marshall Comments, pg. 4-5; Clark Comments, pg. 14.
[127] DEIR, pg. Appendix B, PDF pg. 76 ("The average trip length in CalEEMod is 8.62 miles"); Marshall Comments, pg. 4.
[128] Marshall Comments, pg. 4-5; Clark Comments, pg. 14.
[129] *Id.*
[130] *Id.*

printed on recycled paper

Comment Letter 16 (page 23 of 106)

repeatedly criticized warehouse projects that rely on default average distances, without adjusting for distance to the Ports, as underestimating truck trips.[131] An example of SCAQMD's comments is referenced in Mr. Marshall's comments,[132] demonstrating that the DEIR's 8.62-mile average trip length severely underestimates the distances that would be travelled by the Project's trucks. Thus, the DEIR's analysis of mobile source emissions underestimates truck trip lengths and is not supported by substantial evidence.

The City may argue that trips to the Ports are not proposed by the Project. But CEQA requires analysis of reasonably foreseeable consequences of the Project – which include reasonably foreseeable end uses permitted by the Project.[133] The lack of specific tenants identified for the Project does not justify omission of this analysis. Dr. Clark's comments present evidence showing that trips to the Ports are a reasonably foreseeable consequence for a warehouse in this area.[134] Additionally, the National Center for Sustainable Transportation ("NCST"), sponsored by the California Department of Transportation, prepared a research report titled "Warehousing and Distribution Center Facilities in Southern California: The Use of the Commodity Flow Survey Data to Identify Logistics Sprawl and Freight Generation Patterns" in 2017.[135] The report analyzed Southern California

16-19 Cont.

[131] SCAQMD, Comments on the Draft Subsequent Environmental Impact Report for the Hemlock Warehouse Development Project (SCH No.: 2009091089) (November 22, 2023), available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2023/november-2023/SBC231011-05.pdf; SCAQMD, Comments on Notice of Availability of a Recirculated Draft Environmental Impact Report (EIR) for Rubidoux Commerce Park Project (Proposed Project) (SCH No. 2020110449) (October 9, 2023), available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2023/october-2023/RVC230901-01.pdf; SCAQMD, Comments on Draft Environmental Impact Report (DEIR) for the Optimus Logistics Center 2 (September 11, 2015), pg. 3, available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2015/september/deiroptimus.pdf?sfvrsn=2 ("Since the port areas are over 70 miles away from the project site and that trucks will be serving other destinations within the basin and out of state, the SCAQMD staff recommends, absent a tenant-specific analysis with trip length information, that all applicable analyses be revised in the Final EIR using a one-way trip length that more accurately estimates air quality emission and related impacts based on the anticipated activities and distances described in the DEIR."); SCAQMD, Comments on Draft Environmental Impact Report (DEIR) for the Proposed Westgate Specific Plan (SCH No. 1995052002) (March 5, 2015), pg. 5, available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2015/march/deirwestgate.pdf?sfvrsn=4; SCAQMD, Comments on Draft Mitigated Negative Declaration (Draft MND) for the Proposed Colton – DEXUS Project (February 1, 2013), available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2013/february/colton-dexus.pdf.
[132] Marshall Comments, p. 6.
[133] *Laurel Heights I, supra*, 47 Cal. 3d 376, 398.
[134] Clark Comments, pg. 15-16.
[135] NCST, Warehousing and Distribution Center Facilities in Southern California: The Use of the Commodity Flow Survey Data to Identify Logistics Sprawl and Freight Generation Patterns (July

printed on recycled paper

Comment Letter 16 (page 24 of 106)

Association of Governments ("SCAG") data on warehouses in the six counties that comprise the SCAG region (Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura). The report finds that 56% of the facilities in the SCAG region receive goods from the Port of Los Angeles and Long Beach, and around 50% deliver to Southern California warehouses, retail stores or manufacturing plants.[136] This data suggests that trips to the Ports are reasonably foreseeable, and that it would be speculative not to account for distance to the Ports.

16-19 Cont.

In June 2014, SCAQMD staff conducted a business survey of warehouse operators in the SCAQMD region.[137] The survey found that 42% of goods going to high-cube warehouses in the SCAQMD region originated from the Ports, per the figure below.[138]

2017), available at https://dot.ca.gov/-/media/dot-media/programs/research-innovation-system-information/documents/final-reports/ca17-2975-finalreport-a11y.pdf.
[136] *Id.* at 6-7.
[137] SCAQMD, SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary Of Business Survey Results (June 2014), available at https://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/business-survey-summary.pdf.
[138] *Id.* at pg. 11.

printed on recycled paper

Comment Letter 16 (page 25 of 106)

Origin and Destination of Goods

22 of 34 high cube warehouse respondents provided the origins and destinations of goods flowing to and from their facility. Major trends seen in the charts below include:

- The ports of Los Angeles and Long Beach make up a large share of imported goods yet only a minor component of exported goods
- Approximately 1 in 5 truck trips occurs between warehouses
- Approximately 1 in 7 truck trips involves an out of state location
- Approximately 1 in 10 truck trips involves a rail yard



Because truck trips to and from the Ports are reasonably foreseeable and unanalyzed in the DEIR, the DEIR underestimates transportation, air quality, and GHG impacts. 16-19 Cont.

D. The DEIR Fails to Adequately Analyze Operational Health Risk Impacts

1. The Location of the Fuel Center Significantly Increases Health Risks

The Project proposes a fuel center at the southern border of the Project site at Airport Blvd.[139] Across the street is a mobile home community. The DEIR's health risk analysis demonstrates that emissions from the fuel center would result in a 16-20

[139] DEIR, Exhibit 2.4 – Site Plan.

printed on recycled paper

Comment Letter 16 (page 26 of 106)

cancer risk of 1.5 in one million at these receptors.[140] This would nearly double the community's health risks from the Project's operations (which result primarily from emissions of DPM) to 3.3 in one million.[141] The Project's site plan conflicts with Policy 11.3 of the General Plan:

> Prohibit the siting of land uses that adversely impact existing sensitive receptors, including schools, childcare centers, senior housing, and subsidized affordable housing. The minimum distance separating these uses should be 500 feet.[142]

The mobile home community is a sensitive receptor. The fuel center is a land use that would adversely impact this receptor because it would nearly double the Project's health risk impacts on the community. Dr. Clark concludes that the health risk from exposure to emissions associated with the fuel center will exacerbate existing health risk, resulting in a significant impact.[143] The City may argue that the Project does not conflict with the policy because the Project's health risk impacts would not exceed a 10 in one million threshold.[144] This ignores that these health risks may be significant cumulatively. These comments demonstrate below that the Project's health risks would cumulatively considerable under draft SCAQMD numeric thresholds, which lower the significance threshold to 1 in one million. Therefore, the siting of the fuel center violates Policy 11.3. 16-20 Cont.

And even if the Project's health risk impacts did not exceed SCAQMD thresholds, the Project design conflicts with Policy 11.3 by unnecessarily locating the fuel center near as close as possible to residences. The fuel center must be relocated at least 500 feet from the nearest sensitive receptors in order to comply with the General Plan and protect public health. There is no evidence in the record that relocating the fuel center elsewhere on the 47.96-acre site is infeasible.

2. The DEIR Underestimates Health Risk Impacts from Exposure to DPM

The DEIR includes analysis of the mobile home community's health risks from exposure to the Project's operations. Dr. Clark reviewed the DEIR's AERMOD model and found that impacts were underestimated. Dr. Clark explains that the model only includes emissions from trucks travelling onsite and on Airport Blvd, 16-21

[140] DEIR, Appendix B, PDF, pg. 80.
[141] *Id.*; Clark Comments, pg. 24.
[142] DEIR, pg. 4.3-14.
[143] Clark Comments, pp. 23-24.
[144] DEIR, Appendix B, PDF, pg. 80.

printed on recycled paper

Comment Letter 16 (page 27 of 106)

when in reality, trucks would also be driving past the mobile home community on CA 86.[145] This underestimates the community's exposure to DPM generated by trucks. The DEIR's analysis must be revised to fully disclose and mitigate these health risk impacts. 16-21 Cont.

E. The DEIR Fails to Adequately Disclose, Analyze and Mitigate the Project's Cumulative Impacts

An EIR must evaluate a cumulative impact if the project's incremental effect combined with the effects of other projects is "cumulatively considerable."[146] This determination is based on an assessment of the project's incremental impacts "viewed in connection with the effects of past project, the effects of other current projects, and the effects of probable future projects."[147] Proper cumulative impact analysis is vital because "the full environmental impact of a proposed project cannot be gauged in a vacuum. One of the most important environmental lessons that has been learned is that environmental damage often occurs incrementally from a variety of small sources. These sources appear insignificant when considered individually, but assume threatening dimensions when considered collectively with other sources with which they interact."[148] 16-22

1. The DEIR's Cumulative Air Emissions Analysis Does Not Comply with CEQA, Attorney General Warehouse Guidance, and Updated SCAQMD Guidance

The DEIR fails to adequately analyze the significance of the Project's cumulative air quality emissions. The DEIR asserts that, under SCAQMD guidance, any exceedance of a project-level threshold for criteria pollutants also is considered to be a cumulatively-considerable effect, while air pollutant emissions that fall below applicable project-level thresholds are not considered cumulatively-considerable.[149] The DEIR concludes that this Project's emissions of criteria air pollutants would be less-than-significant because they would not exceed the project-level thresholds.[150] The DEIR's analysis of cumulative health risks is flawed for the same reason as the air quality analysis. This approach is inadequate because it fails 16-23

[145] Clark Comments, pg. 18.
[146] CEQA Guidelines § 15130(a).
[147] *Id.*, §§ 15065(a)(3), 15355(b).
[148] *Communities for a Better Environment v. California Resources Agency* (2002) 103 Cal.App.4th 98, 114.
[149] DEIR, pg. 4.3-19; 4.3-30.
[150] *Id.*

printed on recycled paper

Comment Letter 16 (page 28 of 106)

to analyze the Project's cumulative effects with existing and proposed development near Project site.[151]

The DEIR's approach has been rejected by the courts for failing to comply with CEQA's requirement that a project mitigate impacts that are "cumulatively considerable."[152] The leading case on this issue is *Kings County Farm Bureau v. City of Hanford*.[153] In *Kings County*, the city prepared an EIR for a 26.4-megawatt coal-fired cogeneration plant. Notwithstanding the fact that the EIR found that the project region was out of attainment for PM_{10} and ozone, the city failed to incorporate mitigation for the project's cumulative air quality impacts from project emissions because it concluded that the Project would contribute "less than one percent of area emissions for all criteria pollutants."[154] The city reasoned that, because the project's air emissions were small in ratio to existing air quality problems, that this necessarily rendered the project's "incremental contribution" minimal under CEQA. The court rejected this approach, finding it "contrary to the intent of CEQA," and that "[t]he EIR improperly focused upon the individual project's relative effects and omitted facts relevant to an analysis of the collective effect this and other sources will have upon air quality."[155] 16-23 Cont.

This DEIR's analysis is similarly flawed because it improperly focuses upon the individual project's relative effects and omits facts relevant to an analysis of the collective effect this and other sources will have upon air quality. For example, the DEIR does not evaluate the significance of the combined emissions from construction of the Project and other industrial projects listed in Table 3-1 of the DEIR.[156] The DEIR also fails to analyze the combined emissions from mobile sources generated by the cumulative projects' operations. Dr. Clark calculates that

---

[151] DEIR, pg. 3.0-3, Table 3-1 Cumulative Projects in the City of Coachella
[152] PRC § 21083(b)(2); 14 CCR § 15130; *Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal. App. 3d 692, 719-21.
[153] *Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal. App. 3d 692 ("Kings County"); *see also, Friends of Oroville v. City of Oroville* (2013) 219 Cal. App. 4th 832, 841-42.
[154] *Kings County, supra,* at 719.
[155] *Id.* at 721; *see also People of the State of California v. City of Fontana,* Case No. CIVSB2121829, Petition for Writ of Mandate, available at https://climatecasechart.com/wp-content/uploads/case-documents/2021/20210723_docket-CIVSB2121829_petition-for-writ-of-mandate.pdf ("The MND's cumulative air quality impact analysis does not account for—or even acknowledge—the multitude of other warehouses near the Project. Rather than consider the environmental setting within which the Project will be situated, the MND simply states that the Project will not result in a cumulatively considerable increase in emissions because the Project's individual air quality impacts will be less than significant. The MND even applies this reasoning to its analysis of health impacts from localized emissions, despite making no attempt to determine or disclose the severity of the existing health impacts from localized emissions in the community")
[156] DEIR, pg. 3.0-3, Table 3-1 Cumulative Projects in the City of Coachella

printed on recycled paper

Comment Letter 16 (page 29 of 106)

existing projects within 5 kilometers (km) of the Project site generate 4,000 daily truck trips, producing 5.5 lbs of diesel particulate matter (DPM) per day and 623 lbs of oxides of nitrogen (NO_x) per day.[157] These combined emissions may result in significant air quality and health risks. These potentially significant cumulative health risks are unanalyzed in the DEIR, in violation of CEQA and the principles articulated in *Kings County*.

The approach used in the DEIR also directly conflicts with the recent Attorney General guidance document setting forth best practices for evaluating the environmental impacts of industrial projects like this one under CEQA.[158] With respect to cumulative air quality and GHG emissions analysis, the Attorney General's guidance states that best practices include "[w]hen analyzing cumulative impacts, thoroughly considering the project's incremental impact in combination with past, present, and reasonably foreseeable future projects, *even if the project's individual impacts alone do not exceed the applicable significance threshold* [emphasis added]."[159]

16-23 Cont.

The DEIR's cumulative impacts analysis relies on a 2003 SCAQMD guidance document titled White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution.[160] The City of Fontana was recently sued by the State Attorney General for erroneous reliance on this guidance.[161] The Attorney General's petition explained: "[t]o the extent that the 2003 SCAQMD White Paper asserts that any project with less than significant individual air quality impacts also necessarily has less than significant cumulative air quality impacts, it is inconsistent with CEQA."[162] The Attorney General's litigation resulted in a settlement which requires compliance with an ordinance adopted on April 12, 2022 that establishes sustainability standards for warehouses in Fontana, including standards intended to address cumulative air quality impacts. For example, the standards include requirements that rooftop solar panels supply 100% of power for non-refrigerated portions of facilities with buildings over 400,000 square feet, trees

[157] Clark Comments, pg. 19.
[158] *Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act* (Updated September 2022), available at https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf .
[159] *Id.*, pg. 7.
[160] DEIR, Appendix B, pg. 63.
[161] *People of the State of California v. City of Fontana,* Case No. CIVSB2121829, Petition for Writ of Mandate, available at https://climatecasechart.com/wp-content/uploads/case-documents/2021/20210723_docket-CIVSB2121829_petition-for-writ-of-mandate.pdf
[162] *Id.*

printed on recycled paper

Comment Letter 16 (page 30 of 106)

in automobile parking areas, zero emission motorized operational equipment, other equipment electrification requirements, and solar-ready buildings roofs.[163]

SCAQMD is in the process of updating its guidance to reflect modern science and CEQA's requirements, specifically referencing the City of Fontana case.[164] SCAQMD's November 6, 2024, Working Group's draft cumulative impacts guidance recommends that agencies lower the cancer risk significance threshold to better reflect cumulative impacts.[165] The draft SCAQMD protocols lower the cancer risk threshold from 10 in one million if certain factors reflecting high pollution burden are met.[166] These factors include (1) MATES excess cancer risk, (2) if there are 951 daily heavy-duty truck trips or more that would traverse the truck route, and (3) if the Project is located in a SB 535 disadvantaged community or an AB 617 community. The DEIR's failure to consider pollution burden in its analysis of cumulative health risks thus violates CEQA. 16-23 Cont.

In sum, the DEIR's cumulative air quality impacts analysis fails to comply with CEQA. The City must prepare a revised EIR that properly evaluates and mitigates such impacts.

2. The Project's Impacts Would be Cumulatively Considerable Under the Draft SCAQMD Thresholds 16-24

The Project's health risk impacts would exceed SCAQMD's draft cumulative impacts significant thresholds. Although the new protocols have not been formally adopted, SCAQMD comments on similar industrial projects recommend that the draft protocols be applied.[167] This demonstrates that the new thresholds are supported by substantial evidence, unlike the outdated 2003 guidance.

---

[163] *Id.*, Stipulation For Entry Of Final Judgment On Consent, available at https://climatecasechart.com/wp-content/uploads/case-documents/2022/20220414_docket-CIVSB2121605-CIVSB2121829_stipulation.pdf.

[164] SCAQMD, Working Group Meeting #6, Cumulative Impacts from Air Toxics for CEQA Projects, November 6, 2024, https://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-6-20241106.pdf?sfvrsn=405a8561_13, pg. 4; *see* SCAQMD, Analyzing Cumulative Impacts from Air Toxics in CEQA Documents, https://www.aqmd.gov/home/rules-compliance/ceqa/ceqa-policy-development-(new).

[165] https://www.aqmd.gov/home/rules-compliance/ceqa/ceqa-policy-development-(new); https://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-6-20241106.pdf?sfvrsn=405a8561_13.

[166] *Id.*

[167] SCAQMD, Comments on Draft Environmental Impact Report (DEIR) for the Proposed DJT4 Parcel Delivery Facility Project (Proposed Project) (SCH No. 2023070241) (December 20, 2024), available at https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2024/december-2024/orc241106-09-deir-djt4-parcel-delivery-facility-project.pdf?sfvrsn=8acd8361_8.

printed on recycled paper

Comment Letter 16 (page 31 of 106)

The draft SCAQMD protocols include a flowchart lowering the cancer risk significance threshold (from 10 in one million) if certain factors reflecting high pollution burden are met.[168] Dr. Clark applied the flowchart and found that the Project's impacts would be significant.[169]

Step 1 of the flowchart is to determine the background cancer risk affecting the Project area via the SCAQMD Multiple Air Toxics Exposure Study (MATES). Per the MATES V Data Visualization Tool, the location of the Project site is in the 63rd percentile of highest cancer risks in the South Coast Air Basin, with a cancer risk of 316 in one million.[170] Per the draft thresholds, areas experiencing a background excess cancer risk in the 90th to 50th percentile would result in a drop of the Cancer Risk Threshold from 10 in one million to 5 in one million.[171]

Step 2 of the WG 6 flow diagram is to determine if there are 951 daily heavy-duty truck trips or more that would traverse the truck route to the freeway with Existing + Project + Future volumes. If there are more than 951 heavy duty truck trips, then the Cancer Risk Threshold would again drop from 5 in one million to 3 in one million.[172] The DEIR's transportation study demonstrates that the Project would generate well over 951 truck trips a day.[173] The vast majority of daily truck trips will travel on SR 86 to the north of Airport Boulevard.[174] This reduces the significance threshold to 3 in one million.

Step 3 is to determine if the Project is located in a SB 535 disadvantaged community or an AB 617 community. If the project is within such an area, then the threshold would be reduced further to one in one million. Here, Dr. Clark demonstrates that the Project is located in an AB 617 community.[175] This lowers the significance threshold from 3 in one million to 1 in one million.

16-24 Cont.

[168] SCAQMD, Working Group Meeting #6, Cumulative Impacts from Air Toxics for CEQA Projects, November 6, 2024.
[169] Clark Comments, pg. 20.
[170] Clark Comments, pg. 20; Gridded Cancer Risk, https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?views=Click-tabs-for-other-data%2CGridded-Cancer-Risk#data_s=id%3AdataSource_112-7c8f2a4db79b4a918d46b4e8985a112b%3A15547, last accessed August 28, 2025.
[171] Clark Comments, pg. 21; SCAQMD, Working Group Meeting #6, Cumulative Impacts from Air Toxics for CEQA Projects, November 6, 2024, pg. 8.
[172] *Id.*
[173] DEIR, Appendix I, Table 1-4, pg. 5 (991 4+-axle trucks, 219 3-axle trucks, and 132 2-axle trucks would be generated daily from the Industrial Park component).
[174] DEIR, Appendix I, Figure 1-2, PDF pg. 20.
[175] Clark Comments, pg. 21-22.

printed on recycled paper

Comment Letter 16 (page 32 of 106)

The DEIR calculates that the cancer risk from the Project's DPM emissions would be as high as 1.8 per million persons at the mobile homes located south of the Project site.[176] When combined with the gas station TAC emissions, this would result in a cancer risk as high as 3.3 per million.[177] These health risk impacts would exceed the one in one million significance threshold potentially applicable to the Project. This constitutes substantial evidence of a significant impact requiring disclosure and mitigation in a recirculated EIR. 16-24 Cont.

F. The DEIR Fails to Adequately Evaluate Potentially Significant Noise Impacts

1. The DEIR's Construction Noise Significance Threshold is Unsupported by Substantial Evidence

Appendix G of the CEQA Guidelines provides that the Project would cause a significant noise impact if it would result in "[g]eneration of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies."[178] For this project, the DEIR provides that daytime construction noise under 80 dBA and nighttime construction noise under 70 dBA would be less than significant.[179] The DEIR sources these thresholds from the Federal Transit Administration's ("FTA") Transit Noise And Vibration Impact Assessment Manual.[180] But the DEIR violates CEQA by failing to also identify a significance threshold for the increase in noise over ambient levels. 16-25

California courts have held that "the lead agency should consider both the increase in noise level and the absolute noise level associated with a project".[181] The courts have held that reliance on a maximum noise level as the sole threshold of significance for noise impacts violates CEQA because it fails to consider whether the magnitude of changes in noise levels is significant.[182] In *Keep our Mountains Quiet*

---

[176] DEIR, Appendix B, PDF pg. 80.
[177] *Id.*
[178] DEIR, Appendices PDF, pg. 2056.
[179] DEIR, pg. 4.13-8.
[180] *Id.*; Federal Transit Administration, Transit Noise And Vibration Impact Assessment Manual, September 2018, pg. 179, available at https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf.
[181] *Keep Our Mountains Quiet v. County of Santa Clara* (2015) 236 Cal.App.4th 714, 733; see *King and Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814, 894 (citing *Keep Our Mountains Quiet*).
[182] *King & Gardiner Farms, LLC*, 45 Cal.App.5th at 865.

7982-005acp

printed on recycled paper

Comment Letter 16 (page 33 of 106)

v. County of Santa Clara,[183] neighbors of a wedding venue sued over the County of Santa Clara's failure to prepare an EIR for a proposed project to allow use permits for wedding and other party events at a residential property abutting an open space preserve. Neighbors and their noise expert contended that previous events at the facility had caused significant noise impacts that reverberated in neighbors' homes and disrupted the use and enjoyment of their property.[184] The County's EIR relied on the noise standards set forth in its noise ordinance as its thresholds for significant noise exposure from the project, deeming any increase to be insignificant so long as the absolute noise level did not exceed those standards.[185] The Court examined a long line of CEQA cases which have uniformly held that conformity with land use regulations is not conclusive of whether or not a project has significant noise impacts[186] in holding that the County's reliance on the project's compliance with noise regulations did not constitute substantial evidence supporting the County's finding of no significant impacts.[187]

16-25 Cont.

In *King and Gardiner Farms, LLC v. County of Kern*,[188] the Court of Appeal cited *Keep our Mountains Quiet* and decisions cited therein when it rejected the use of a single "absolute noise level" threshold of significance (construction and operational noise impacts were only deemed significant if they exceeded 65 dBA CNEL) on the grounds that the sole use of such a threshold fails to consider the magnitude or severity of increases in noise levels attributable to the project in different environments. The Court explained the lead agency failed to "refer to evidence showing why the magnitude of an increase was irrelevant in determining the significance of a change in noise."[189]

Here, the DEIR evaluates the Project's construction noise impacts using absolute thresholds (80/70 dBA). As in *King and Gardiner Farms*, the DEIR's current thresholds fail to consider the increase in noise without referring to any

---

[183] *Keep our Mountains Quiet v. County of Santa Clara* (2015) 236 Cal.App.4th 714.
[184] *Id.* at 724.
[185] *Id.* at 732.
[186] *Id., citing Citizens for Responsible & Open Government v. City of Grand Terrace* (2008) 160 Cal.App.4th 1323, 1338; *Oro Fino Gold Mining Corp. v. County of El Dorado* (1990) 225 Cal.App.3d 872, 881–882; *Gentry v. City of Murrieta* (1995) 36 Cal.App.4th 1359, 1416 (project's effects can be significant even if "they are not greater than those deemed acceptable in a general plan"); *Environmental Planning & Information Council v. County of El Dorado* (1982) 131 Cal.App.3d 350, 354, ("CEQA nowhere calls for evaluation of the impacts of a proposed project on an existing general plan").
[187] *Id.* at 732-734; see also *King & Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814, 893, as modified on denial of rehearing (Mar. 20, 2020).
[188] *King and Gardiner Farms, LLC, supra*, 45 Cal.App.5th 814.
[189] *Id.* at 894.

printed on recycled paper

Comment Letter 16 (page 34 of 106)

evidence showing why that metric is irrelevant in determining the significance of a change in noise.

Substantial evidence demonstrates that the increase in noise is relevant in determining the significance of construction noise. The FTA Manual cited by the DEIR states that "[p]roject construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land use."[190] A single 70 or 80 dBA threshold does not account for the existing noise environment. Figure 3-6 of the FTA Manual presents data from case studies showing that reactions to increases in noise between 5 to 10 dBA above existing levels vary from "widespread complaints" to "threats of legal action."[191] Increases in noise of 20 dBA over existing levels typically results in "vigorous action." These responses to noise increases are caused because "[o]n average, each A-weighted sound level increase of 10 dB corresponds to an approximate doubling of subjective loudness."[192] The DEIR's noise study itself states that "[a]n increase of 5 dBA is typically considered substantial."[193] Thus, the increase in noise over ambient levels must be analyzed in order to fully evaluate the Project's impacts. An EIR must be prepared that applies a legally adequate construction noise threshold. 16-25 Cont.

2. Construction Noise Impacts Would Significantly Increase Noise Over Ambient Levels

The DEIR estimates that the Project's construction would result in construction noise levels of 86 to 89 dBA at the nearest residences.[194] These noise impacts would be significant because they would result in noticeable increases over ambient levels.[195] Ms. Toncheva explains that these increases are up to 30 dB above ambient levels measured at the nearest residence during daytime hours.[196] A 30 dBA increase would subjectively sound 8 times louder than ambient levels. This is because, while a 10 dB increase is 10 times the intensity and perceived as twice as loud, this effect is logarithmic.[197] 16-26

[190] FTA Manual, September 2018, pg. 179.
[191] *Id.* at 18, Figure 3-6 (Community Reaction to New Noise, Relative to Existing Noise in a Residential Urban Environment)
[192] FTA Manual, September 2018, pg. 206.
[193] DEIR, Appendix H, PDF pg. 8.
[194] DEIR, pg. 4.13-19.
[195] DEIR, pg. 4.13-19.
[196] DEIR p. 4.13-4, Table 4.13-2; Toncheva Comments, pg. 4.
[197] https://www.merckmanuals.com/home/multimedia/table/measurement-of-loudness (30 dB is 1,000 times the intensity of 0 dB and seems 8 times as loud.).

printed on recycled paper

Comment Letter 16 (page 35 of 106)

Ms. Toncheva explains that FTA guidance predicts that the community response to a 30 dBA noise increase would likely reach "vigorous action."[198] This noise increase would thus constitute a significant noise increase, even if mitigation reduces it to just below an 80 dBA threshold. This impact must be disclosed and mitigated in a recirculated EIR. 16-26 Cont.

3. The DEIR's Mitigation Measures Would Not Fully Mitigate Construction Noise Impacts

The DEIR claims that MM-NOI-1 would reduce the Project's construction noise levels below the 80 dBA absolute threshold.[199] MM-NOI-1 requires that construction equipment use mufflers that reduce engine noise by 10 dBA, and that construction equipment be staged as far as possible from nearby noise-sensitive land uses, located near the northern boundary of the Project site.[200] The noise reductions claimed by this measure are not supported by substantial evidence.

Ms. Toncheva explains that while the mitigation measures outlined are generally good practice for any construction site, they would not reduce levels by 6-9 dB in order to meet the 80 dBA threshold.[201] The claim that mufflers would reduce noise levels by 10 dB relies on an outdated EPA reference from the 1970s.[202] Mufflers have since become standard on modern construction equipment, and are already accounted for in the FHWA Road Construction Noise Model reference levels used in the DEIR.[203] Further, mufflers only reduce noise from internal combustion engines of the equipment, not activity noise from breaking up or impacting earth and other materials.[204] Thus, MM-NOI-1 would reduce the predicted 86-89 dBA impact. 16-27

MM-NOI-1 states that "construction equipment be staged as far as possible from nearby noise-sensitive land uses, located near the northern boundary of the Project site."[205] This statement should be revised to state that the noise-sensitive land uses are located near the *southern* boundary to accurately reference the residences 60 feet south of the Project.[206]

---

[198] Toncheva Comments, pg. 4.
[199] https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf
[200] DEIR, pg. ES-18.
[201] DEIR, pg. 4.13-19.
[202] Toncheva Comments, pg. 3.
[203] *Id.*
[204] *Id.*
[205] DEIR, pg. ES-18.
[206] DEIR, pg. 4.13-18.

printed on recycled paper

Comment Letter 16 (page 36 of 106)

Ms. Toncheva notes that this measure is good standard practice, but only applies to certain equipment.[207] Activities that need to take place within 60 feet of the nearby residences will remain above the FTA threshold. MM-NOI-1 would thus not effectively reduce noise impacts. 16-27 Cont.

In sum, the Project's significant construction noise impacts would continue to exceed the City's 80 dBA threshold. Ms. Toncheva recommends requiring temporary noise barriers, which could reduce levels by 8-10 dB depending on their placement, material, and height.[208]

4. Project Operations Would Result in Significant, Unmitigated Noise Impacts

The DEIR claims that the Project's operational noise impacts would not exceed daytime or nighttime standards (55 and 45 dBA, respectively).[209] The DEIR finds that daytime operational noise impacts at the nearest residential receptor would be 54 dBA and nighttime impacts would be 44 dBA.[210] Ms. Toncheva demonstrates that the DEIR underestimates these noise impacts, which would exceed the 55/45 dBA thresholds.

Ms. Toncheva explains that the DEIR appears to underestimate noise from warehouse mechanical equipment. The DEIR states that noise levels associated with commercial air conditioning units can range from 60 to 65 dBA Leq at 3 feet.[211] This assumption is not supported by substantial evidence because the DEIR fails to provide input references for noise sources used in the operational analysis SoundPLAN model.[212] Substantial evidence demonstrates that mechanical equipment noise would be louder than assumed in the DEIR. Ms. Toncheva explains that the most common large air conditioning unit size for warehouses is 25 tons, with a typical sound power level of 85-95 dBA, which would be equivalent to a sound pressure level of 78-88 dBA at 3 feet.[213] 16-28

Further, the contours shown in Figure 7 of the Noise Study ("Daytime Operational Noise Contours and Modeled Receiver Locations") do not appear to reflect mechanical equipment sources and appear to represent only the contribution

[207] Toncheva Comments, pg. 3.
[208] *Id.*
[209] DEIR, pg. 4.13-21.
[210] *Id.*
[211] *Id.* at 4.13-20.
[212] Toncheva Comments, pg. 6.
[213] *Id.*

printed on recycled paper

Comment Letter 16 (page 37 of 106)

of the truck route and loading docks.[214] Thus, the mechanical equipment noise may not have been included in the impacts analysis.

16-28 Cont.

Since the DEIR's calculations are extremely close to exceeding thresholds (only 1 dB under the daytime and nighttime standards), the Project's operational impacts would likely exceed these standards when mechanical equipment noise is correctly analyzed. This impact must be disclosed and mitigated in a recirculated EIR.

5. The DEIR Fails to Adequately Analyze Noise from Nighttime Operations

16-29

The DEIR states that, "[b]ased on information obtained from the Project Applicant, daytime operations for most on-site land uses, excluding the gas station minimart, would extend from 7:00 am to 9:00 pm."[215] Based on this assumption, the DEIR's analysis of nighttime noise impacts only includes noise from the gas station minimart (anticipated to operate until midnight), and the proposed substation (anticipated to operate 24 hours per day)[216] This omission is shown in Figure 8 of the noise study, excerpted below.[217]

Figure 8
Nighttime Operational Noise Contours and Modeled Receiver Locations



[214] Toncheva Comments, pg. 7; DEIR, Appendix H, pg. 24.
[215] DEIR, pg. 4.13-17; 4.13-21; Appendix H, pg. 19.
[216] DEIR, pg. 4.13-17.
[217] DEIR, Appendix H, pg. 25, Figure 8: Nighttime Operational Noise Contours and Modeled Receiver Locations.

printed on recycled paper

Comment Letter 16 (page 38 of 106)

The assumption that no operations would occur in the industrial park after 9:00 PM is unsupported by substantial evidence. The only evidence supporting this assumption is an allusion to "information obtained from the Project Applicant."[218] This does not constitute substantial evidence because the assumed hours of operation are not binding on future tenants–there is no condition of approval or mitigation measure prohibiting nighttime operations in the DEIR. Undermining the Applicant's assumption are multiple discussions in the DEIR stating that "the proposed Project's future tenants are unknown at this time."[219] Thus, the Applicant does not appear to have concrete information regarding the future tenants' hours of operation.

The City may argue that, because nighttime operations are not specifically proposed by the Applicant, and future tenants are unknown, it would be speculative to analyze nighttime operations. The City may also argue that it need not analyze the "worst case scenario."[220] But CEQA requires "*reasonably foreseeable* consequence[s] of the initial project."[221] Here, it is reasonably foreseeable that the Project's industrial components, such as its warehouses, may have nighttime operations. For example, the Project proposes warehouses, and logistics operations can run 24 hours a day.[222] The DEIR itself assumes that site operations would occur 24 hours, 7 days a week in its air study, rendering the DEIR internally inconsistent.[223] And the Project approvals would allow nighttime operations. Without any condition of approval or mitigation measure providing otherwise, the City cannot rule out nighttime operations. 16-29

The DEIR calculates that nighttime operational noise impacts would be 44 dBA, barely below the 45 dBA threshold.[224] When noise from increased nighttime

---

[218] DEIR, pg. 4.13-17; 4.13-21; Appendix H, pg. 19.
[219] DEIR, pg. 4.13-19; *see* 4.13-19 ("Since the proposed Project's future tenants are unknown at this time, the potential hours of operation of future drive-thru restaurant businesses are unknown."); 7.0-37 ("While this alternative could result in a potentially higher VMT than the Project, it is too speculative to try to quantify this difference without knowing the end users of both the proposed Project and the "Heavy Industrial" Alternative.").
[220] *East Oakland Stadium Alliance v. City of Oakland* (2023) 889 Cal. App. 5th 1226.
[221] *Laurel Heights I*, 47 Cal. 3d 376, 398 (emphasis added); *see also Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal. 4th 412, 449-50.
[222] https://cxtsoftware.com/whitepaper/white-house-announces-a-new-standard-in-logistics-24-7-operations/; EIR for Amazon DJT4 Delivery Facility, SCH No. 2023070241, available at https://ceqanet.lci.ca.gov/20201101671/4; https://files.ceqanet.lci.ca.gov/289432-2/attachment/DvnZIrfkn2anTtUbk18pv1hBF_u4a3dz7ybNhvZyauRGrrJLR87M9ZLUCh8t8Z8tbUxRHGIIN6OBZjOR0 ("The Project would operate 24 hours per day, 7 days per week to support delivery of packages to customer locations.")
[223] DEIR, pg. 4.3-16.
[224] DEIR, pg. 4.13-21.

printed on recycled paper

Comment Letter 16 (page 39 of 106)

16-29

operations is considered, the 45 dBA significance threshold would likely be exceeded.[225] The DEIR must be revised to disclose and mitigate this potentially significant impact.

6. Noise from Nighttime Truck Trips Is Potentially Significant and Unmitigated

The Project may generate nighttime truck trips that would result in potentially significant sleep disturbance impacts. However, such impacts are not fully evaluated in the DEIR. The DEIR finds that nighttime noise impacts from truck traffic would be less than significant because the Project would not exceed the 45 dBA leq nighttime exterior noise standard.[226] But courts have held that conformity with land use regulations is not conclusive of whether a project would have significant noise impacts.[227]

16-30

Ms. Toncheva explains that individual nighttime truck trips may result in sleep disturbances despite compliance with the DEIR's nighttime noise standard. Specifically, the City's noise standards, which use the metric "dBA Leq," refer to an *average* sound level over a designated period.[228] Ms. Toncheva explains that a standard relying on *hourly* leq would not reflect the significance of noise from *individual* trucks passing by sensitive receptors.[229] An indoor Lmax noise level of 45 dBA from a single truck has an approximately 10% chance of disturbing sleep.[230] Ms. Toncheva calculates that an individual truck passby would result in an interior Lmax level of 64 dBA at the nearest residence, 60 feet away from the driveway.[231] This level has an approximately 17% chance of disturbing sleep. Therefore, nighttime truck trips generated by the Project would result in potentially significant sleep disturbances. The DEIR must be revised to analyze the full scope

---

[225] Toncheva Comments, pg.5.
[226] DEIR, pg. 4.13-21.
[227] *Keep our Mountains Quiet v. County of Santa Clara*, (2015) 236 Cal.App.4th 714, *citing Citizens for Responsible & Open Government v. City of Grand Terrace* (2008) 160 Cal.App.4th 1323, 1338; *Oro Fino Gold Mining Corp. v. County of El Dorado* (1990) 225 Cal.App.3d 872, 881–882; *Gentry v. City of Murrieta* (1995) 36 Cal.App.4th 1359, 1416 (project's effects can be significant even if "they are not greater than those deemed acceptable in a general plan"); *Environmental Planning & Information Council v. County of El Dorado* (1982) 131 Cal.App.3d 350, 354 ("CEQA nowhere calls for evaluation of the impacts of a proposed project on an existing general plan"); *King & Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814, 893, as modified on denial of rehearing (Mar. 20, 2020).
[228] Toncheva Comments, pg. 5.
[229] *Id.*
[230] Basner, "WHO Environmental Noise Guidelines for the European Region: A Systematic Review on Environmental Noise and Effects on Sleep," Figure 4, available at https://pubmed.ncbi.nlm.nih.gov/29538344/.
[231] Toncheva Comments, Pg. 5.

printed on recycled paper

Comment Letter 16 (page 40 of 106)

of noise impacts generated by the Project, which include sleep disturbance impacts from individual truck passbys.

16-30 Cont.

IV. CONCLUSION

For the reasons discussed above, the DEIR for the Project is inadequate under CEQA. It must be revised to provide legally adequate analysis of, and mitigation for, all of the Project's potentially significant impacts. These revisions will necessarily require that the DEIR be recirculated for additional public review. Until the DEIR has been revised and recirculated, as described herein, the City may not lawfully approve the Project.

16-31

Thank you for your consideration of these comments. Please include them in the record of proceedings for the Project.

Sincerely,



Aidan P. Marshall

Attachments
APM:acp

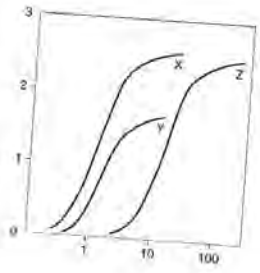
7982-006acp

printed on recycled paper

Comment Letter 16 (page 41 of 106)

EXHIBIT A

Comment Letter 16 (page 42 of 106)



Clark & Associates
Environmental Consulting, Inc.

OFFICE
12405 Venice Blvd
Suite 331
Los Angeles, CA 90066

PHONE
310-907-6165

FAX
310-398-7626

EMAIL
jclark.assoc@gmail.com

September 10, 2025

Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

Attn: Mr. Aidan Marshall

Subject: Comment Letter on Draft Environmental Impact Report (DEIR) Coachella Airport Business Park Development, City of Coachella, Riverside County, California, State Clearinghouse Number (SCH No. 2023040106)

Dear Mr. Marshall:

At the request of Adams Broadwell Joseph & Cardozo (ABJC), Clark and Associates (Clark) has reviewed materials related to the May 2025 City of Coachella (City) DEIR for the above referenced project.

Clark's review of the materials in no way constitutes a validation of the conclusions or materials contained within the plan. If we do not comment on a specific item this does not constitute acceptance of the item.

Project Description:

According to the CEQAnet Project Information description, "As a new business park development within the City, the overall proposed Project site would be developed for industrial uses comprised of the following uses: large and small warehouse; personal vehicle storage and self-storage units; small business use spaces; a small retail and restaurant development; a 44-foot-tall electronic billboard sign located along the Project's small business frontage along SR 86; a fuel station with a convenience store; and associated landscaping, parking, lighting, and signage. An Imperial Irrigation District (IID) electrical substation facility would also be constructed as part of the project, at the northern end of the overall Project site on a parcel that has been acquired from the California Department of Transportation (Caltrans). The new 315 foot x

Comment Letter 16 (page 43 of 106)

315 foot electrical substation will require at least one 1-25 mega volt ampere (MVA) 92/13.2 kilovolt (kV) transformer bank in order to provide adequate power for the proposed Project."

The proposed Project site is located at the northwest corner of the intersection of State Route 86 (SR 86) and Airport Boulevard in the City of Coachella (City), in the County of Riverside (County), California. The site is comprised of four (4) parcels totaling approximately 47.96 acres in size. The proposed site is a currently vacant parcel surrounded by SR 86 to the east, Airport Boulevard to the south, the Coachella Valley Stormwater Channel (CVSC) and Avenue 54 to the approximate west and north. The specifics of the Project include:

1. The approximate 4,000 square foot (sq ft) fuel station with associated convenience store and parking would be located at the site's entrance along Airport Boulevard, with an approximate 4,650 sq ft retail and drive-through restaurant located to the northeast of the site entrance.
2. Eighteen (18) proposed small business buildings, approximately 4,500 sq ft in size each and totaling about 81,000 sq ft, would be located along the site's eastern frontage along SR 86 and to the north of the fuel station and convenience store site within the southern portion of the overall Project site.
3. Four (4) structures for storing personal vehicles averaging 19,200 sq ft (for an estimated total of 76,800 sq ft) with an internal open space area would be located to the north of the small business buildings and to the west of the proposed small warehouse buildings on site.
4. Seventeen (17) self-storage buildings totaling 128,600 sq ft, ranging in size between 5,200 sq ft and 10,400 sq ft, would be located in the center portion of the site, west of the small warehouse buildings.
5. Five (5) small warehouse structures, ranging in size from 9,600 sq ft to 24,000 sq ft (totaling approximately 96,000 sq ft) would also be located along the site's eastern frontage along SR 86. Six (6) large warehouse structures ranging in size from 22,400 sq ft to 48,800 sq ft, totaling approximately 233,100 sq ft of warehouse space would be located along the northern portion of the site, in close proximity to the proposed electric substation.
6. An IID substation facility would be located at the northern end of the overall Project site on a parcel that has been acquired from the California Department of Transportation (Caltrans). The Project Applicant now owns the substation parcel. The new 315-foot x 315-foot electrical substation will require at least one 1-25 mega volt ampere (MVA) 92/13.2 kilovolt (kV) transformer bank in order to provide adequate power for the proposed Project. The final

Comment Letter 16 (page 44 of 106)

components of the new substation will be determined in consultation with IID and may include additional facilities to improve electrical system resiliency and reliability to the surrounding community. There also would be 92 kV transmission line extensions and associated distribution feeders/backbones and distribution line extensions installed on the substation portion of the overall Project site.

7. Utility connections to Coachella Water Authority (CWA) waterlines and Coachella Valley Water District (CVWD) sewer lines are proposed as part of Project implementation

The proposed buildings on the site would range in height from 24 feet to 50 feet in height, primarily consisting of one (1) and two (2) story structures, with some four (4) story buildings. All building design and materials would be consistent with the Project Design Guidelines and would be submitted for architectural review to the City.

Table 2.1: Proposed Project Components

Building Type	Size (in square feet)
Large Warehouse Structures	233,100 sq ft
Small Warehouse Structures	96,000 sq ft
Small Business Development Buildings	81,000 sq ft
Personal Vehicle Storage Facilities	76,800 sq ft
Self-Storage Facilities	128,600 sq ft
Service Station/ Mini Mart	4,000 sq ft
Restaurant and Drive-through Facility	4,650 sq ft
TOTAL	624,500 sq ft

Figure 1: Project Summary

3 | Page

Comment Letter 16 (page 45 of 106)



Figure 2: Regional Location Of Project

Comment Letter 16 (page 46 of 106)



Figure 3: Local Vicinity Map

The City of Coachella is located within the South Coast Air Basin (SCAB) which is guided by the Air Quality Management Plan (AQMP) of the South Coast Air Quality Management District (SCAQMD). The SCAB, is a non-attainment area for both the federal and state standards for ozone and $PM_{2.5}$. The SCAB is in attainment for the state and federal standards for PM_{10}, nitrogen dioxide, and carbon monoxide. SCAQMD has adopted a series of AQMPs to meet the State and federal ambient air quality standards. AQMPs are updated regularly to more effectively reduce emissions, accommodate growth, and minimize any negative fiscal impacts of air pollution control on the economy. The current AQMP was adopted by the SCAQMD Governing Board on December 2, 2022. The AQMP control measures and related emission reduction estimates are based on emissions projections for a future development scenario derived from land use, population, and employment characteristics defined in consultation with local governments. Accordingly, conformance with the

Comment Letter 16 (page 47 of 106)

AQMP for development projects is determined by demonstrating compliance with local land use plans and/or population projections.

The proposed project would result in the emission of criteria pollutants (ozone (O3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulates less than 10 and 2.5 microns in diameter (PM_{10} and $PM_{2.5}$), and toxic air contaminants (TACs), such as diesel particulate matter, during the construction phase and operational phase of the Project. The DEIR's conclusion that the emissions will not result in significant impacts is not supported by the information within the DEIR.

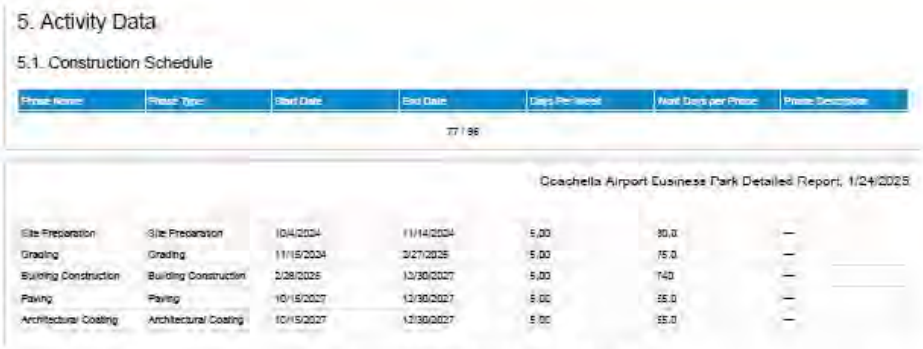
Specific Comments

1. **The DEIR Fails To Include The Emissions From The Utility Connections From Coachella Water Authority (CWA) Waterlines In The Air Quality Analysis**

The DEIR states that the "proposed Project site has an existing 30-inch CVWD waterline adjacent to the site, that is a "dry line", that is, it is not connected to any existing water lines. The Coachella Water Authority (CWA) plans to extend their water facilities with a 20" water line from Avenue 54 southerly along Grapefruit Boulevard, then easterly under the existing railroad tracks and the CVSC to the Project site. Grapefruit Boulevard, then easterly under the existing railroad tracks and the CVSC to the Project site. This will require approximately 1.5 miles of excavations to be completed from Avenue 54 to the Project Site. The equipment that would be needed to install the water line would include at a minimum backhoes, loaders, generator sets, cranes, pavers, and rollers. Based on the distance from Avenue 54 to the site, the offsite improvements would be expected to take between 30 and 45 days to complete. The DEIR is missing the emissions from this foreseeable construction phase in the air quality analysis.

Since sewer connections exist near the proposed Project site, the existing CVWD sewer line near Orange Street and Airport Boulevard would be extended easterly along Airport Boulevard, and then cross the CVSC (either underground or attached to the bridge on Airport Boulevard) and connect to the project site directly on the east side of the CVSC." A review of the CalEEMod analysis of the Project provided in Appendix B of the DEIR fails to show where the emissions from the utility connections are accounted for in the model.

Comment Letter 16 (page 48 of 106)



5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
			77 / 96			

Coachella Airport Business Park Detailed Report, 1/24/2025

Site Preparation	Site Preparation	10/4/2024	11/14/2024	5.00	30.0	—
Grading	Grading	11/15/2024	3/27/2025	5.00	75.0	—
Building Construction	Building Construction	3/28/2025	12/30/2027	5.00	740	—
Paving	Paving	10/15/2027	12/30/2027	5.00	55.0	—
Architectural Coating	Architectural Coating	10/15/2027	12/30/2027	5.00	55.0	—

Figure 4: Construction Schedule

The phases of construction include site preparation, grading, building construction, paving, and architectural coatings but does not include the necessary utility connection work. This deficiency clearly underestimates the emissions from the Project and the City should prepare a revised DEIR which models emissions from all phases of the Project's construction work, including the utility connections.

2. The DEIR Fails To Address The Potentially Significant Health Impacts From Exposure to Valley Fever Spores Present In The Soils Of Riverside County.

During the construction phase of the Project, in addition to exposing the community to criteria pollutants and TACs, a significant risk from exposure to Valley Fever spores is present that may negatively impact the community. Dust exposure is one of the primary risk factors for contracting Valley Fever (via *Coccidiodes immitis (cocci)* exposure).[1] When soil containing the *cocci* spores are disturbed by construction activities, the fungal spores become airborne, exposing construction workers and other nearby sensitive receptors.[2] Valley Fever is on the rise in Riverside County and in Coachella in particular. According to the CA Dept of Public Health, Valley Fever rates have increased 30% since 2022 (from 13 per 100,000 to 17 per 100,000). Based on a study by UCR

[1] RUH-SHPH. 2024. Valley Fever (2019-2023) Riverside County. Riverside University Health System Public Health (RUH-SHPH).

[2] *Ibid.*

Comment Letter 16 (page 49 of 106)

(see figure below) it is evident that Coachella is a hot spot for the County of Riverside with rates of Valley Fever at 17 per 100,000 to 20 per 100,000.



Figure 3: Rates of Valley Fever In Riverside County 2019-2023

Dust exposure is a primary risk factor for contracting Valley Fever (via *Coccidiodes imimitis (cocci)* exposure). When soil containing the *cocci* spores are disturbed by construction activities, the fungal spores become airborne, exposing construction workers and other nearby sensitive receptors. The fungus lives in the top 2 to 12 inches of soil. When soil containing this fungus is disturbed by activities such as digging, vehicles, construction activities, dust storms, or during earthquakes, the fungal spores become airborne. The most at-risk populations are construction and agricultural workers.[3] Here, construction workers are the very population that would be most directly exposed by the Project. A peer reviewed journal article on occupational exposures notes that "[l]abor groups where occupation involves close contact with the soil are at greater risk, especially if the work involves dusty digging operations."[4]

The potentially exposed population in surrounding areas is much larger than construction workers because the nonselective raising of dust during Project construction will carry the very small spores, 0.002–0.005 millimeters ("mm"), into nonendemic areas, potentially exposing large non-Project-related populations.[5],[6] These very small particles are not controlled by conventional

[3] Lawrence L. Schmelzer and R. Tabershaw, Exposure Factors in Occupational Coccidioidomycosis, *American Journal of Public Health and the Nation's Health*, v. 58, no. 1, 1968, pp. 107–113, Table 3; available at http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1228046/?page=1.

[4] *Ibid.*, p. 110.

[5] Schmelzer and Tabershaw, 1968, p. 110; Pappagianis and Einstein, 1978

[6] Pappagianis and Einstein, 1978, p. 527 ("The northern areas were not directly affected by the ground level windstorm that had struck Kern County but the dust was lifted to several thousand feet elevation and, borne on high currents, the

Comment Letter 16 (page 50 of 106)

construction dust control mitigation measures because standard dust control largely focuses on visible dust or larger dust particles—the PM_{10} fraction—not the very fine particles where the Valley Fever spores are found.[7]

A study in Antelope Valley identified a clear link between soil disturbance - due to large-scale renewable energy construction projects, agricultural management practices and PM_{10} fugitive dust emissions - and increased incidence of coccidioidomycosis.[8]

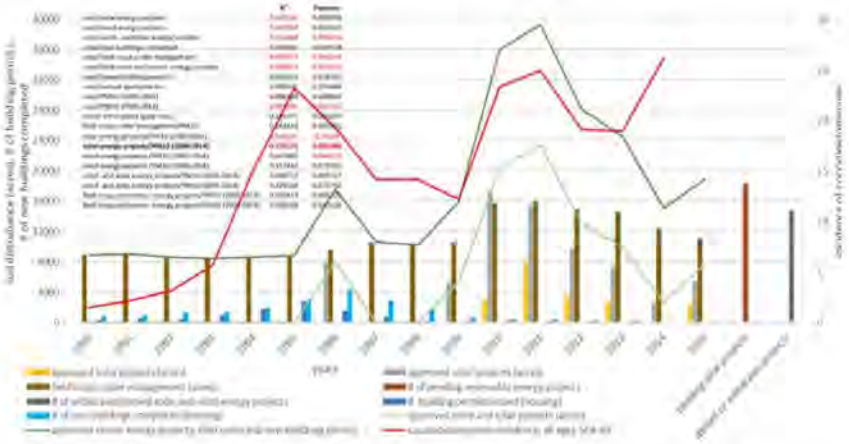


Figure 4: Valley Fever Incidence And Soil Disturbance

It is evident from the figure above that, as the number of acres of soil in the Antelope Valley were disturbed, the incidence rate of Valley Fever also increased. The mass disturbance of soils

soil and arthrospores along with some moisture were gently deposited on sidewalks and automobiles as 'a mud storm' that vexed the residents of much of California." The storm originating in Kern County, for example, had major impacts in the San Francisco Bay Area and Sacramento).

[7] Frederick S. Fisher, Mark W. Bultman, and Demosthenes Pappagianis, Operational Guidelines (version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), U.S. Geological Survey Open-File Report 00-348, 2000, pp. 5, 7; https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf.

[8] Colson. 2017. Large-Scale Land Development, Fugitive Dust, and Increased Coccidioidomycosis Incidence in the Antelope Valley of California, 1999-2014. https://knowthecause.com/wp-content/uploads/2017/03/Colson2017FugitiveDustCoccidiodes.pdf

Comment Letter 16 (page 51 of 106)

anticipated by the proposed Project will create the same conditions that were detailed in the study by Colson. [9]

Valley Fever often manifests as a mild respiratory illness, but it can progress to serious chronic forms, especially in immunocompromised individuals, and may even become disseminated, impacting organs including the skin, bones, brain, and spinal cord. Disseminated Valley Fever is associated with severe symptoms like meningitis, painful lesions, and swollen joints. The potentially exposed population in areas surrounding the Project site is much larger than just its construction workers because the nonselective raising of dust during Project construction will carry the very small spores, 0.002–0.005 millimeters ("mm"), into nonendemic areas, potentially exposing large non-Project-related populations.[10],[11] For a particle entrained the relative air speed determines the distance it will travel before settling. At a relatively low speed of 3 miles per hour (mph) a particle could travel 0.85 miles in less than 17 minutes. Given the wind flows within the area, it is clear that entrained particles could travel well into residential neighborhoods from the Project site. Given that there is no minimum threshold concentration for exposure to Valley Fever spores, any level of exposure could pose significant health risks to construction workers and nearby residents. The City must disclose this potentially significant impact and require effective mitigation measures to ensure that exposure risk to construction workers and local residents is reduced to the greatest extent feasible.

3. The Proposed Dust Control Measures In The DEIR Fail To Effectively Mitigate Significant Valley Fever Exposure Risks.

The standard fugitive dust mitigation measures proposed in the DEIR are not adequate to protect construction workers and nearby sensitive receptors from exposure to Valley Fever spores. Rule 403 includes requirements for a Dust Control Plan, signage and fencing requirements, as well as surface watering and stabilization with chemicals, gravel and asphaltic pavement to eliminate

---

[9] *ibid*

[10] Schmelzer and Tabershaw, 1968, p. 110; Pappagianis and Einstein, 1978

[11] Pappagianis and Einstein, 1978, p. 527 ("The northern areas were not directly affected by the ground level windstorm that had struck Kern County but the dust was lifted to several thousand feet elevation and, borne on high currents, the soil and arthrospores along with some moisture were gently deposited on sidewalks and automobiles as 'a mud storm' that vexed the residents of much of California." The storm originating in Kern County, for example, had major impacts in the San Francisco Bay Area and Sacramento).

Comment Letter 16 (page 52 of 106)

visible fugitive dust from vehicular travel and wind erosion. All the mitigation measures outlined above allow for a percentage of dust that could be generated to migrate offsite. Based on the mitigation measures outlined in the CalEEMOD model (utilized in the DEIR), watering exposed areas twice a day would reduce PM_{10} and $PM_{2.5}$ emissions by 61 percent (61%). Increasing the watering frequency to 3 times per day would reduce PM_{10} and $PM_{2.5}$ emissions by 74%. Conventional dust control measures primarily focus on visible dust or larger dust particles—the PM_{10} fraction—and fail to address the very fine particles that transport Valley Fever spores, which are approximately 5 times smaller than typical PM_{10} particles and remain airborne much longer.[12] These fine particles, when disturbed by soil-disturbing activities, spread widely beyond site, posing a significant risk to both onsite workers and nearby communities.

The proposed compliance with SCAQMD Rule 403, which relies on a visual opacity readings for dust control, is insufficient to prevent exposure to Valley Fever spores. This rule is based on smoke-monitoring methods (U.S. EPA Methods 9 and 22) that require active monitoring by certified observers, rely on subjective observation, and are affected by variable such as lighting, distance, and weather conditions. Due to these limitations, opacity readings do not provide accurate, continuous data on fine airborne particles.

To address these shortcomings, the City should require active monitoring with dust monitors (particle measuring devices) immediately outside of the facility and around its perimeter. Continuous particle measures would offer several advantages. It eliminates the subjectivity inherent in visual opacity readings, leading to more reliable and consistent data. It allows for real-time tracking of dust particle levels, enabling prompt corrective actions if thresholds are exceeded. And it offers robust data sets that can be used for repeatability test and to validate compliance with air quality standards. Incorporating active dust monitoring systems would ensure that air quality impacts are accurately assessed and mitigated, fulfilling the intent of the mitigation measures and conditions of compliance to protect public health and the environment.[13]

The City should also require that the Applicant implement mitigation measures to actively

[12] See, e.g., Cummings and others, 2010, p. 509; Schneider et al., 1997, p. 908 ("Primary prevention strategies (e.g., dust-control measures) for coccidioidomycosis in endemic areas have limited effectiveness.").

[13] See e.g. National Library of Medicine: Valley Fever: Fine Mineral Dust Modeling Points to High-Risk Regions and Seasons in California (January, 2025). Silke Schmidt, PhD, available at https://pmc.ncbi.nlm.nih.gov/articles/PMC11750424/ (last visited 9/10/25).

Comment Letter 16 (page 53 of 106)

suppress the spread of Valley Fever by implementing the following methods:

1. Include specific requirements in the Project's Injury and Illness Prevention Program (as required by Title 8, Section 3203) regarding safeguards to prevent Valley Fever.
2. Control dust exposure:
   - Rule 403 requires application of nontoxic chemical soil stabilizers according to manufacturers' specifications to inactive construction areas. Additionally, chemical stabilizers should be applied at least 24-hours prior to high wind event.
   - In addition to Rule 403's requirement to apply water to all disturbed areas a minimum of three times per day, watering frequency should be increased to a minimum of *four times per day* if there is any evidence of visible wind-driven fugitive dust.
   - Provide National Institute for Occupational Safety and Health (NIOSH)-approved respirators for workers with a prior history of Valley Fever.
   - Half-face respirators equipped with a minimum N-95 protection factor for use during worker collocation with surface disturbance activities. Half-face respirators equipped with N-100 or P-100 filters should be used during digging activities. Employees should wear respirators when working near earth-moving machinery.
   - Prohibit eating and smoking at the worksite, and provide separate, clean eating areas with hand-washing facilities.
   - Avoid outdoor construction operations during unusually windy conditions or in dust storms.
   - Consider limiting outdoor construction during the fall to essential jobs only, as the risk of cocci infection is higher during this season.
3. Prevent transport of cocci outside endemic areas:
   - Thoroughly clean equipment, vehicles, and other items before they are moved off-site to other work locations.
   - Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides, and/or tailgate.
   - Load all haul trucks such that the freeboard is not less than six inches when material is transported on any paved public access road and apply water to the top

12 | Page

Comment Letter 16 (page 54 of 106)

of the load sufficient to limit VDE to 20 percent opacity; or cover haul trucks with a tarp or other suitable cover.

- Provide workers with coveralls daily, lockers (or other systems for keeping work and street clothing and shoes separate), daily changing and showering facilities.
- Clothing should be changed after work every day, preferably at the work site.
- Train workers to recognize that cocci may be transported offsite on contaminated equipment, clothing, and shoes; alternatively, consider installing boot-washing.
- Post warnings onsite and consider limiting access to visitors, especially those without adequate training and respiratory protection.

4. Improve medical surveillance for employees:
   - Employees should have prompt access to medical care, including suspected work-related illnesses and injuries.
   - Work with a medical professional to develop a protocol to medically evaluate employees who have symptoms of Valley Fever.
   - Consider preferentially contracting with 1-2 clinics in the area and communicate with the health care providers in those clinics to ensure that providers are aware that Valley Fever has been reported in the area. This will increase the likelihood that ill workers will receive prompt, proper and consistent medical care.
   - Respirator clearance should include medical evaluation for all new employees, annual re-evaluation for changes in medical status, and annual training, and fit-testing.
   - Skin testing is not recommended for evaluation of Valley Fever.[14]
   - If an employee is diagnosed with Valley Fever, a physician must determine if the employee should be taken off work, when they may return to work, and what type of work activities they may perform.

The City must disclose the risk of Valley Fever exposure as a significant impact and should adopt these evidence-based mitigation measures – proven effective in similar construction projects in endemic areas – in a revised DEIR to ensure comprehensive protection of public health. Standard dust

[14] Short-term skin tests that produce results within 48 hours are now available. See Kerry Klein, NPR for Central California, New Valley Fever Skin Test Shows Promise, But Obstacles Remain, November 21, 2016; available at http://kvpr.org/post/new-valley-fever-skin-test-shows-promise-obstacles-remain.

Comment Letter 16 (page 55 of 106)

control measures are insufficient for preventing Valley Fever exposure, and only concrete, enforceable steps like those listed above will safeguard both onsite workers and surrounding communities.

4. The DEIR Severely Underestimates The Average Truck Trip Length By Relying On An Average Value Of 8.6 Mile-Length Trips In The Air Quality Analysis.

The underreporting of the number of truck trips and the length of the truck trips correlate to an underreporting of the mobile source emissions for the Project. According to Note 1 of Table 4.3-7: Operational Local Criteria Pollutant Emissions, the average trip length in CalEEMod is 8.62 miles. The figure below includes an 8.6 mile radius from the Project Site. The air quality estimate assumes that the truck trips would go as far as Indio to the north and Mecca to the south. This "average" distance clearly far too low an estimate of the actual truck trip distance that will be part of the Project.

Comment Letter 16 (page 56 of 106)



Figure 5: 8.6 Mile Radius From Project Site

The primary (largest) sources of containerized products are the Ports of Los Angeles (POLA) and Long Beach (POLB). POLA and POLB are located approximately 150 miles away from the Project Site. "In 2020, the Ports of Los Angeles, Long Beach, and Oakland collectively accounted for over 34% of all United States international container trade. The Ports of Los Angeles and Long Beach alone generate about 35,000 container truck trips every day. Accordingly, the South Coast Air Basin now contains approximately 3,000 warehouses of over 100,000 square feet each, with a total warehouse capacity of approximately 700 million square feet, an increase of 20 percent over the last

Comment Letter 16 (page 57 of 106)

five years"),[15] citing Data from the Bureau of Transportation Statistics, Container TEUs (Twenty-foot Equivalent Units)[16] from 2020, the Ports of Los Angeles, Long Beach, and Oakland combined for 14.157 million TEUs, 34% of 41.24 million TEUs total nationwide.[17]

In this case, using Project-specific data would increase the trip length by 1,744% ((150/8.6)*100 = 1,744%). At this length, truck emissions would create an even greater NO_x problem for the Region. The City must revise the DEIR's air quality analysis to accurately calculate emissions using fact-based, reasonably foreseeable truck trip lengths.

5. The DEIR Failed To Address Concerns Raised By SCAQMD In Its Comment Letter On The Project.

In the September 28, 2023 comment letter from SCAQMD, the agency noted that operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). As noted below, the DEIR fails to include stationary sources (e.g., fire pumps and back up generators) in the air quality analysis of the Project. Additionally, the letter notes that under Rule 2305 - Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program, since the Proposed Project consists of the development of a 329,100-square-foot warehouse, the Proposed Project's warehouse owners and operators will be required to comply with Rule 2305. Nowhere in the DEIR is the issue of compliance with Rule 2305 is addressed. Finally, the SCAQMD recommends in the Health Risk Reduction Strategies section of the letter that there are strategies available to reduce exposures, including, but are not limited to, building filtration systems with MERV 13 or better, or in some cases, MERV 15 or better is recommended; building design, orientation, location; vegetation barriers or landscaping screening, etc. Again, the DEIR fails to address the issue of filtration to reduce exposure to DPM from the Project site. this failing to consider feasible mitigation that could further

[15] Available at https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf

[16] https://data.bts.gov/stories/s/Container-TEU/x3fb-aeda/

[17] U.S. Dept. of Transportation, Federal Highway Administration, FHWA Operations Support – Port Peak Pricing Program Evaluation (2020), available at https://ops.fhwa.dot.gov/publications/fhwahop09014/sect2.htm

Comment Letter 16 (page 58 of 106)

reduce health risk associated with Project construction and operation. These issues should be addressed in a revised DEIR.

6. **The CalEEMod Analysis For The Operational Phase Does Not Include Fire Pumps And Back-Up Generators.**

A review of the CalEEMod analyses that accompanies the DEIR failed to show where emissions from the stationary equipment, including fire pumps and back-up generators are quantified. Line items are inserted in the AERMOD analysis for Fire pumps and Generators, but no supporting information is provided in the analysis.


Coachella Airport Business Park Detailed Report, 1/24/2025

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Rated Heating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

The City must provide the supporting documentation regarding the stationary sources in a revised DEIR.

7. **The Operational Phase Air Model And HRA Ignore Emissions From The Project On CA State Route 86 Which Will Impact The Community.**

The Operational Phase HRA underestimates the emissions from the trucks accessing the Project Site. A review of the AERMOD models utilized in the operational phase health risk assessment (files DPM28-41.isc and DPM42-54.isc) cut emissions from vehicles off at the entrance to CA State Route 86.

Comment Letter 16 (page 59 of 106)



Figure 6: Operational Phase AERMOD model

The blue squares indicated in Figure 6 are volume sources that represent the trucks accessing the Project Site. The model stops the truck emissions at the service entrances from State Route CA 86 to Airport Boulevard. It is obvious that emissions from the trucks on CA 86 will also impact the receptors south of Airport Boulevard, yet were not included. The City should quantify these emissions, and evaluate their impact when combined with other Project-related emissions, in a revised DEIR.

Comment Letter 16 (page 60 of 106)

8. The City's Cumulative Impact Analysis Fails To Incorporate A Quantitative Analysis of The Substantial Public Health Impacts From Nearby Warehouse Projects.

The DEIR fails to incorporate a quantitative analysis of public health risks associated with the emissions from nearby warehouses. According to data from the Redford Conservancy at Pitzer College and Radical Research LLC (presented on the Warehouse CITY website)[18], within 5 km of the Project Site in the Cities of Coachella and Thermal there are 27 existing warehouses covering 5,991,300 square feet. There is 1 vacant warehouse (totaling 308,700 sq ft). The existing projects within 5 kilometers (km) of the Project site generate 4,000 daily truck trips, producing 5.5 lbs of diesel particulate matter (DPM) per day and 623 lbs of oxides of nitrogen (NO_x) per day.



Figure 7: Existing, Approved And Project Undergoing CEQA Review Within 5 km of Site

[18] Warehouse City v. 1.21. Accessed August 21, 2025. https://radicalresearch.shinyapps.io/WarehouseCITY/

Comment Letter 16 (page 61 of 106)

The development of 5,735,535 square feet of business uses and 428,507 square feet of commercial uses (the Project Site) clearly adds a substantial number of truck trips, daily DPM emissions, and NOx emissions to an already heavily impacted region, which the DEIR did not account for.

9. The DEIR Fails To Analyze The Project's Health Impacts from Diesel Particulate Matter Emissions Consistent With The Latest SCAQMD Working Group Guidance On The Aggregation Of Warehouses

The DEIR's air quality analysis fails to consider cumulative impacts in light of existing pollution levels or emissions from other nearby projects. Instead, the DEIR relies on SCAQMD's outdated cumulative threshold which looks only at project-specific emissions rather than emissions from cumulative sources.

For cumulative impacts, SCAQMD has initiated a public process to update existing guidance due to community concerns about high-risk health impacts from air toxics, particularly from aggregation of warehouses. Since 2022, SCAQMD has held six Working Group (WG) meetings to develop additional guidance for analyzing such potential impacts.[19] The first two WG meetings focused on Information Gathering and Analysis as well as the Initial Objective and Scope of the WGs. The third WG meeting was specific to the Initial Objective and Scope of the WGs and pushed into the Conceptual/Potential Cumulative Health Risk Assessment protocols. WG meetings #4 and #5 focused only on the Conceptual/Potential Cumulative Health Risk Assessment protocols. WG meeting #6 (WG 6), held in November of 2024, refined the proposed the Conceptual/Potential Cumulative Health Risk Assessment protocols based on public comments. The result of WG 6 was a draft process/analysis flow diagram which is intended to be used to inform the drafting of a planned Draft Guidance Document for conducting Cumulative Health Risk Assessments in the South Coast Air Basin.

Step 1 of the WG 6 process for determining the cumulative significance threshold is to identify the background cancer risk affecting the Project area via the SCAQMD Multiple Air Toxics Exposure Study (MATES).[20] According to SCAQMD's MATES V study, zip code 92236 (the location of the

[19] https://www.aqmd.gov/home/rules-compliance/ceqa/ceqa-policy-development-(new).

[20] https://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-6-20241106.pdf?sfvrsn=405a8561_13.

Comment Letter 16 (page 62 of 106)

Project Site) has a cumulative cancer risk of 316 in 1 million, placing it in the top 63% of communities in the South Coast Air Basin (SCAB) impacted by TACs.

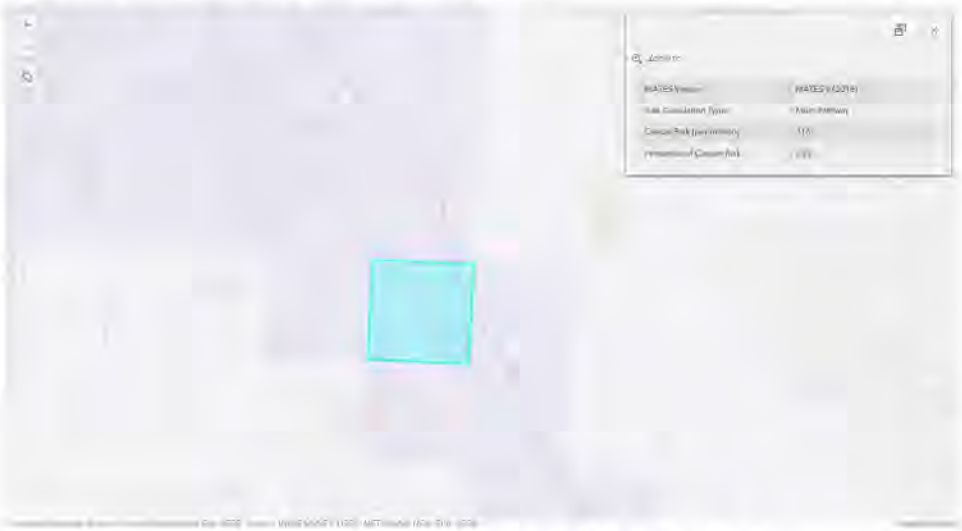


Figure 8: MATES Cancer Risk Analysis Of Project Location

Per WG 6, areas experiencing background excess cancer risk in the 50th percentile to 90th percentile would result in a drop of the Cancer Risk Threshold from 10 in one million to 5 in one million.

Step 2 of WG flow diagram is to determine whether daily truck trips along the route from the Project to the nearest freeway would exceed 951 (adding the truck trips generated by the proposed Project to existing truck traffic). Here, Table 1-4 of the DEIR's transportation study demonstrates that the project is expected to generate well over 951 truck trips a day on Airport Boulevard.[21] 991 4+-axle trucks, 219 3-axle trucks, and 132 2-axle trucks would be generated daily from the Industrial Park component. This lowers the Cancer Risk Threshold from 5 in one million to 3 in one million.

Step 3 of the WG 6 flow diagram is to determine whether the sensitive receptors along the truck are a health sensitive population (either within an SB 535 or SB 617 area). Here, the Project

[21] DEIR, Coachella Airport Business Park Traffic Impact Analysis, pg. 5.

Comment Letter 16 (page 63 of 106)

meets this criteria because it is an AB 617 community. This lowers the Cancer Risk Threshold from 3 in one million to 1 in one million.

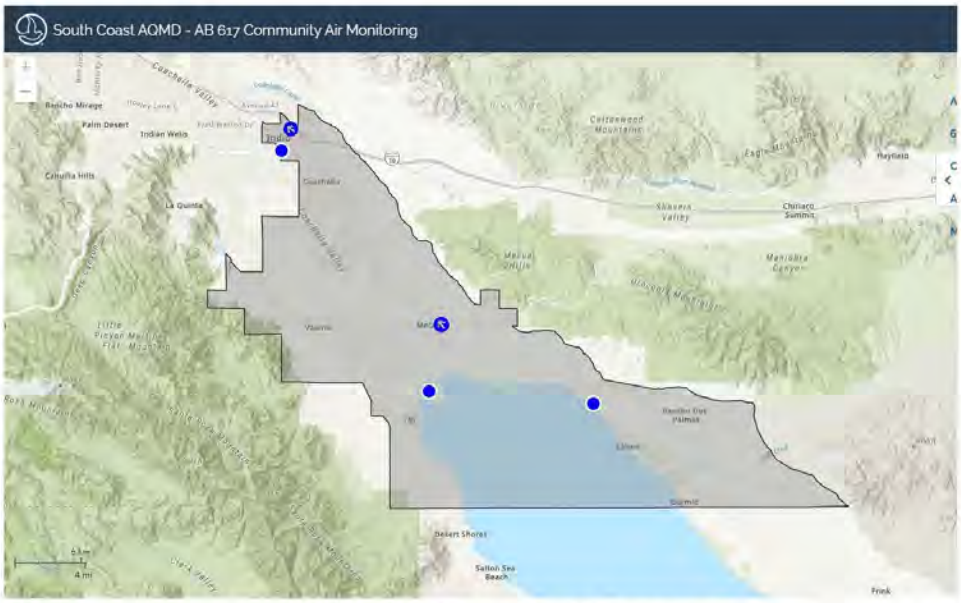


Figure 9: AB 617 Classification Of Project Area

The DEIR's attempt to analyze cumulative impacts without considering these background conditions or comparing cumulative exposures against SCAQMD's new draft threshold is unsupported, fails to provide basic information related to the Project, and is contrary to both CEQA's cumulative impact analysis directives and SCAQMD's draft guidance on cumulative impacts. To comply with CEQA and the SCAQMD's Working Group guidance, the Project's cumulative impacts should be evaluated against an adjusted cumulative cancer risk threshold of 1 in one million rather than the 10 in one million cited in the DEIR. Clearly, the City must re-evaluate the health risks against this lower health risk threshold in a revised DEIR.

Comment Letter 16 (page 64 of 106)

10. The SCAQMD's Working Group Conceptual/Potential Cumulative Health Risk Assessment Guidance Shows That The Project's Operational Emissions Exceed The Adjusted Cumulative Risk Threshold

As detailed above, the Project's cumulative impacts should be evaluated against an adjusted cumulative cancer risk threshold of 1 in one million based on the process outlined by SCAQMD. According to the health risk analysis (HRA) prepared for the Project,[22] when combined with the gas station TAC emissions, this would result in a cancer risk as high as **3.3 per million persons** at the mobile homes located south of the project site. Clearly, the risk from the operational emissions from the Project are significant for residential receptors nearest to the Project. The City must re-evaluate the Project in light of this finding and present the results in a revised DEIR.

11. The Project Is Inconsistent With City Of Coachella General Plan (GP) Policy 11.3.

Goal 11 of the City of Coachella's 2035 General Plan Update focuses on creating healthy indoor and outdoor air quality by reducing locally generated pollutant concentrations. Policy 11.3 states that it would "Prohibit the siting of land uses that adversely impact existing sensitive receptors, including schools, childcare centers, senior housing, and subsidized affordable housing. The minimum distance separating these uses should be 500 feet." From the Site Plan included as Exhibit 2.4 to the DEIR it is evident that the gasoline station is proposed to be developed directly across Airport Boulevard from the existing mobile homes.

[22] Vista Environmental. 2025. *Air Quality, Energy, Greenhouse Gas Emissions And Health Risk Impact Analysis, Coachella Airport Business Park Project, City of Coachella.* Pg 73

Comment Letter 16 (page 65 of 106)

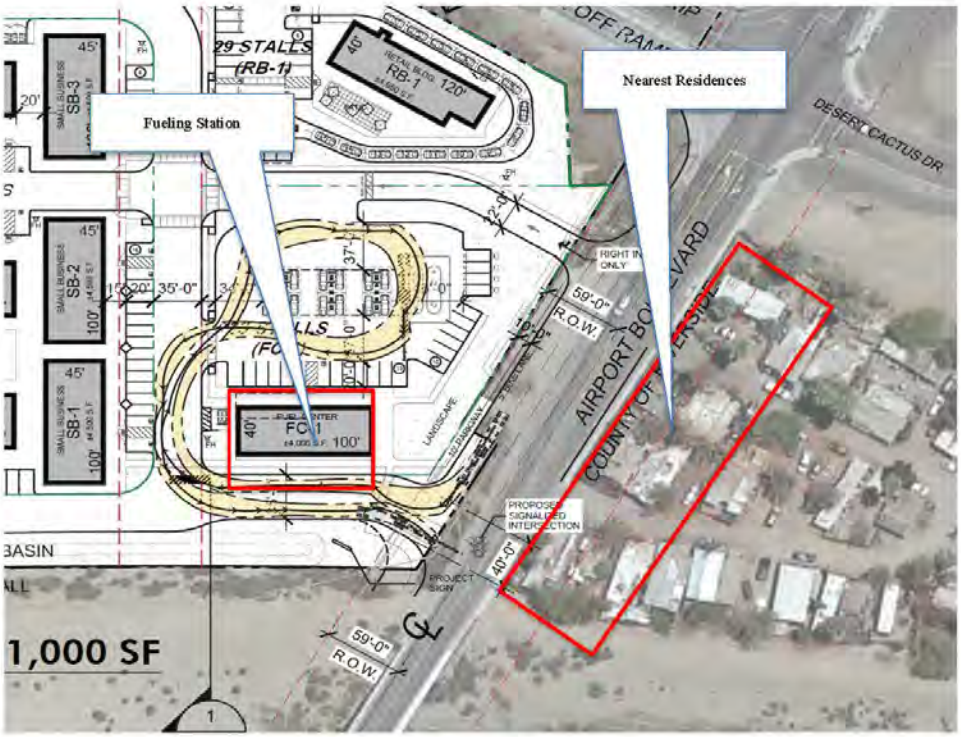


Figure 10: Site Plan and Location of Nearest Residences

The location of the fueling station is less than 150 feet from the nearest sensitive receptor (mobile home). The current location of the fueling center will violate Policy 11.3 because the DEIR's HRA calculates that emissions from the fueling center will result in a cancer risk of 1.5 in one million.[23] This cancer risk would exceed the SCAQMD working group's 1 in one million cumulative impacts threshold. It would combine with the Project's other health risks to result in a 3.3 in one million health risk. Because the location of the fueling center nearly doubles the Project's health risk impacts, the Project's layout conflicts with Policy 11.3. The City must address this inconsistency and require the Proponent to reconfigure the Project to move the fueling center at least 500 feet away from the location of the nearest residences and present the results in a revised DEIR.

[23] DEIR, pg. 4.3-26.

Comment Letter 16 (page 66 of 106)

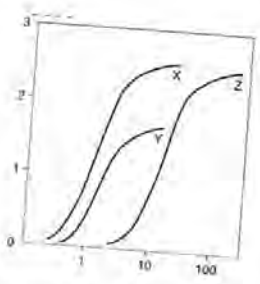
Conclusion

The facts identified and referenced in this comment letter lead me to reasonably conclude that the Project will result in significant impacts if allowed to proceed.

Sincerely,



Comment Letter 16 (page 67 of 106)



Clark & Associates
Environmental Consulting, Inc

OFFICE
12405 Venice Blvd.
Suite 331
Los Angeles, CA 90066

PHONE
310-907-6165

FAX
310-398-7626

EMAIL
jclark.assoc@gmail.com

James J. J. Clark, Ph.D.

Principal Toxicologist

Toxicology/Exposure Assessment Modeling
Risk Assessment/Analysis/Dispersion Modeling

Education:

Ph.D., Environmental Health Science, University of California, 1995
M.S., Environmental Health Science, University of California, 1993
B.S., Biophysical and Biochemical Sciences, University of Houston, 1987

Professional Experience:

Dr. Clark is a well recognized toxicologist, air modeler, and health scientist. He has 20 years of experience in researching the effects of environmental contaminants on human health including environmental fate and transport modeling (SCREEN3, AEROMOD, ISCST3, Johnson-Ettinger Vapor Intrusion Modeling); exposure assessment modeling (partitioning of contaminants in the environment as well as PBPK modeling), conducting and managing human health risk assessments for regulatory compliance and risk-based clean-up levels; and toxicological and medical literature research.

Significant projects performed by Dr. Clark include the following:

LITIGATION SUPPORT

Case: James Harold Caygle, et al, v. Drummond Company, Inc. Circuit Court for the Tenth Judicial Circuit, Jefferson County, Alabama. Civil Action. CV-2009

Client: Environmental Litgation Group, Birmingham, Alabama

Dr. Clark performed an air quality assessment of emissions from a coke factory located in Tarrant, Alabama. The assessment reviewed include a comprehensive review of air quality standards, measured concentrations of pollutants from factory, an inspection of the facility and detailed assessment of the impacts on the community. The results of the assessment and literature have been provided in a declaration to the court.

Comment Letter 16 (page 68 of 106)

Case Result: Settlement in favor of plaintiff.

Case: Rose Roper V. Nissan North America, et al. Superior Court of the State Of California for the County Of Los Angeles – Central Civil West. Civil Action. NC041739

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to multiple chemicals, including benzene, who later developed a respiratory distress. A review of the individual's medical and occupational history was performed to prepare an exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to respiratory irritants. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: O'Neil V. Sherwin Williams, et al. United States District Court Central District of California

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to petroleum distillates who later developed a bladder cancer. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Summary judgment for defendants.

Case: Moore V., Shell Oil Company, et al. Superior Court of the State Of California for the County Of Los Angeles

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to chemicals while benzene who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Comment Letter 16 (page 69 of 106)

Case Result: Settlement in favor of plaintiff.

Case: Raymond Saltonstall V. Fuller O'Brien, KILZ, and Zinsser, et al. United States District Court Central District of California

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to benzene who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a quantitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Richard Boyer and Elizabeth Boyer, husband and wife, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-7G.

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of a family exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Comment Letter 16 (page 70 of 106)

Case: JoAnne R. Cook, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-9R

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of an individual exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Patrick Allen And Susan Allen, husband and wife, and Andrew Allen, a minor, V. DESCO Corporation, et al. Circuit Court of Brooke County, West Virginia. Civil Action Number 04-C-W

Client: Frankovitch, Anetakis, Colantonio & Simon, Morgantown, West Virginia.

Dr. Clark performed a toxicological assessment of a family exposed to chlorinated solvents released from the defendant's facility into local drinking water supplies. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to chlorinated solvents. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Michael Fahey, Susan Fahey V. Atlantic Richfield Company, et al. United States District Court Central District of California Civil Action Number CV-06 7109 JCL.

Comment Letter 16 (page 71 of 106)

Client: Rose, Klein, Marias, LLP, Long Beach, California

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to refined petroleum hydrocarbons who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Settlement in favor of plaintiff.

Case: Constance Acevedo, et al., V. California Spray-Chemical Company, et al., Superior Court of the State Of California, County Of Santa Cruz. Case No. CV 146344

Dr. Clark performed a comprehensive exposure assessment of community members exposed to toxic metals from a former lead arsenate manufacturing facility. The former manufacturing site had undergone a DTSC mandated removal action/remediation for the presence of the toxic metals at the site. Opinions were presented regarding the elevated levels of arsenic and lead (in attic dust and soils) found throughout the community and the potential for harm to the plaintiffs in question.

Case Result: Settlement in favor of defendant.

Case: Michael Nawrocki V. The Coastal Corporation, Kurk Fuel Company, Pautler Oil Service, State of New York Supreme Court, County of Erie, Index Number I2001-11247

Client: Richard G. Berger Attorney At Law, Buffalo, New York

Dr. Clark performed a toxicological assessment of an individual occupationally exposed to refined petroleum hydrocarbons who later developed a leukogenic disease. A review of the individual's medical and occupational history was performed to prepare a qualitative exposure assessment. The exposure assessment was evaluated against the

Comment Letter 16 (page 72 of 106)

known outcomes in published literature to exposure to refined petroleum hydrocarbons. The results of the assessment and literature have been provided in a declaration to the court.

Case Result: Judgement in favor of defendant.

SELECTED AIR MODELING RESEARCH/PROJECTS

Client – Confidential

Dr. Clark performed a comprehensive evaluation of criteria pollutants, air toxins, and particulate matter emissions from a carbon black production facility to determine the impacts on the surrounding communities. The results of the dispersion model will be used to estimate acute and chronic exposure concentrations to multiple contaminants and will be incorporated into a comprehensive risk evaluation.

Client – Confidential

Dr. Clark performed a comprehensive evaluation of air toxins and particulate matter emissions from a railroad tie manufacturing facility to determine the impacts on the surrounding communities. The results of the dispersion model have been used to estimate acute and chronic exposure concentrations to multiple contaminants and have been incorporated into a comprehensive risk evaluation.

Client – Los Angeles Alliance for a New Economy (LAANE), Los Angeles, California

Dr. Clark is advising the LAANE on air quality issues related to current flight operations at the Los Angeles International Airport (LAX) operated by the Los Angeles World Airport (LAWA) Authority. He is working with the LAANE and LAX staff to develop a comprehensive strategy for meeting local community concerns over emissions from flight operations and to engage federal agencies on the issue of local impacts of community airports.

Comment Letter 16 (page 73 of 106)

Client – City of Santa Monica, Santa Monica, California

Dr. Clark is advising the City of Santa Monica on air quality issues related to current flight operations at the facility. He is working with the City staff to develop a comprehensive strategy for meeting local community concerns over emissions from flight operations and to engage federal agencies on the issue of local impacts of community airports.

Client: Omnitrans, San Bernardino, California

Dr. Clark managed a public health survey of three communities near transit fueling facilities in San Bernardino and Montclair California in compliance with California Senate Bill 1927. The survey included an epidemiological survey of the effected communities, emission surveys of local businesses, dispersion modeling to determine potential emission concentrations within the communities, and a comprehensive risk assessment of each community. The results of the study were presented to the Governor as mandated by Senate Bill 1927.

Client: Confidential, San Francisco, California

Summarized cancer types associated with exposure to metals and smoking. Researched the specific types of cancers associated with exposure to metals and smoking. Provided causation analysis of the association between cancer types and exposure for use by non-public health professionals.

Client: Confidential, Minneapolis, Minnesota

Prepared human health risk assessment of workers exposed to VOCs from neighboring petroleum storage/transport facility. Reviewed the systems in place for distribution of petroleum hydrocarbons to identify chemicals of concern (COCs), prepared comprehensive toxicological summaries of COCs, and quantified potential risks from carcinogens and non-carcinogens to receptors at or adjacent to site. This evaluation was used in the support of litigation.

Client – United Kingdom Environmental Agency

Dr. Clark is part of team that performed comprehensive evaluation of soil vapor intrusion of VOCs from former landfill adjacent residences for the United Kingdom's Environment

Comment Letter 16 (page 74 of 106)

Agency. The evaluation included collection of liquid and soil vapor samples at site, modeling of vapor migration using the Johnson Ettinger Vapor Intrusion model, and calculation of site-specific health based vapor thresholds for chlorinated solvents, aromatic hydrocarbons, and semi-volatile organic compounds. The evaluation also included a detailed evaluation of the use, chemical characteristics, fate and transport, and toxicology of chemicals of concern (COC). The results of the evaluation have been used as a briefing tool for public health professionals.

EMERGING/PERSISTENT CONTAMINANT RESEARCH/PROJECTS

Client: Ameren Services, St. Louis, Missouri

Managed the preparation of a comprehensive human health risk assessment of workers and residents at or near an NPL site in Missouri. The former operations at the Property included the servicing and repair of electrical transformers, which resulted in soils and groundwater beneath the Property and adjacent land becoming impacted with PCB and chlorinated solvent compounds. The results were submitted to U.S. EPA for evaluation and will be used in the final ROD.

Client: City of Santa Clarita, Santa Clarita, California

Dr. Clark is managing the oversight of the characterization, remediation and development activities of a former 1,000 acre munitions manufacturing facility for the City of Santa Clarita. The site is impacted with a number of contaminants including perchlorate, unexploded ordinance, and volatile organic compounds (VOCs). The site is currently under a number of regulatory consent orders, including an Immanent and Substantial Endangerment Order. Dr. Clark is assisting the impacted municipality with the development of remediation strategies, interaction with the responsible parties and stakeholders, as well as interfacing with the regulatory agency responsible for oversight of the site cleanup.

Client: Confidential, Los Angeles, California

Prepared comprehensive evaluation of perchlorate in environment. Dr. Clark evaluated the production, use, chemical characteristics, fate and transport, toxicology, and remediation of perchlorate. Perchlorates form the basis of solid rocket fuels and have recently been detected in water supplies in the United States. The results of this research

Comment Letter 16 (page 75 of 106)

were presented to the USEPA, National GroundWater, and ultimately published in a recent book entitled *Perchlorate in the Environment*.

Client – Confidential, Los Angeles, California

Dr. Clark is performing a comprehensive review of the potential for pharmaceuticals and their by-products to impact groundwater and surface water supplies. This evaluation will include a review if available data on the history of pharmaceutical production in the United States; the chemical characteristics of various pharmaceuticals; environmental fate and transport; uptake by xenobiotics; the potential effects of pharmaceuticals on water treatment systems; and the potential threat to public health. The results of the evaluation may be used as a briefing tool for non-public health professionals.

PUBLIC HEALTH/TOXICOLOGY

Client: Brayton Purcell, Novato, California

Dr. Clark performed a toxicological assessment of residents exposed to methyl-tertiary butyl ether (MTBE) from leaking underground storage tanks (LUSTs) adjacent to the subject property. The symptomology of residents and guests of the subject property were evaluated against the known outcomes in published literature to exposure to MTBE. The study found that residents had been exposed to MTBE in their drinking water; that concentrations of MTBE detected at the site were above regulatory guidelines; and, that the symptoms and outcomes expressed by residents and guests were consistent with symptoms and outcomes documented in published literature.

Client: Confidential, San Francisco, California

Identified and analyzed fifty years of epidemiological literature on workplace exposures to heavy metals. This research resulted in a summary of the types of cancer and non-cancer diseases associated with occupational exposure to chromium as well as the mortality and morbidity rates.

Client: Confidential, San Francisco, California

Summarized major public health research in United States. Identified major public health research efforts within United States over last twenty years. Results were used as a briefing tool for non-public health professionals.

Comment Letter 16 (page 76 of 106)

Client: Confidential, San Francisco, California

Quantified the potential multi-pathway dose received by humans from a pesticide applied indoors. Part of team that developed exposure model and evaluated exposure concentrations in a comprehensive report on the plausible range of doses received by a specific person. This evaluation was used in the support of litigation.

Client: Covanta Energy, Westwood, California

Evaluated health risk from metals in biosolids applied as soil amendment on agricultural lands. The biosolids were created at a forest waste cogeneration facility using 96% whole tree wood chips and 4 percent green waste. Mass loading calculations were used to estimate Cr(VI) concentrations in agricultural soils based on a maximum loading rate of 40 tons of biomass per acre of agricultural soil. The results of the study were used by the Regulatory agency to determine that the application of biosolids did not constitute a health risk to workers applying the biosolids or to residences near the agricultural lands.

Client – United Kingdom Environmental Agency

Oversaw a comprehensive toxicological evaluation of methyl-*tertiary* butyl ether (M*t*BE) for the United Kingdom's Environment Agency. The evaluation included available data on the production, use, chemical characteristics, fate and transport, toxicology, and remediation of M*t*BE. The results of the evaluation have been used as a briefing tool for public health professionals.

Client – Confidential, Los Angeles, California

Prepared comprehensive evaluation of *tertiary* butyl alcohol (TBA) in municipal drinking water system. TBA is the primary breakdown product of M*t*BE, and is suspected to be the primary cause of M*t*BE toxicity. This evaluation will include available information on the production, use, chemical characteristics, fate and transport in the environment, absorption, distribution, routes of detoxification, metabolites, carcinogenic potential, and remediation of TBA. The results of the evaluation were used as a briefing tool for non-public health professionals.

Client – Confidential, Los Angeles, California

Prepared comprehensive evaluation of methyl *tertiary* butyl ether (MTBE) in municipal drinking water system. MTBE is a chemical added to gasoline to increase the octane

Comment Letter 16 (page 77 of 106)

rating and to meet Federally mandated emission criteria. The evaluation included available data on the production, use, chemical characteristics, fate and transport, toxicology, and remediation of MTBE. The results of the evaluation have been were used as a briefing tool for non-public health professionals.

Client – Ministry of Environment, Lands & Parks, British Columbia

Dr. Clark assisted in the development of water quality guidelines for methyl tertiary-butyl ether (MTBE) to protect water uses in British Columbia (BC). The water uses to be considered includes freshwater and marine life, wildlife, industrial, and agricultural (e.g., irrigation and livestock watering) water uses. Guidelines from other jurisdictions for the protection of drinking water, recreation and aesthetics were to be identified.

Client: Confidential, Los Angeles, California

Prepared physiologically based pharmacokinetic (PBPK) assessment of lead risk of receptors at middle school built over former industrial facility. This evaluation is being used to determine cleanup goals and will be basis for regulatory closure of site.

Client: Kaiser Venture Incorporated, Fontana, California

Prepared PBPK assessment of lead risk of receptors at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

RISK ASSESSMENTS/REMEDIAL INVESTIGATIONS

Client: Confidential, Atlanta, Georgia

Researched potential exposure and health risks to community members potentially exposed to creosote, polycyclic aromatic hydrocarbons, pentachlorophenol, and dioxin compounds used at a former wood treatment facility. Prepared a comprehensive toxicological summary of the chemicals of concern, including the chemical characteristics, absorption, distribution, and carcinogenic potential. Prepared risk characterization of the carcinogenic and non-carcinogenic chemicals based on the exposure assessment to quantify the potential risk to members of the surrounding community. This evaluation was used to help settle class-action tort.

Comment Letter 16 (page 78 of 106)

Client: Confidential, Escondido, California

Prepared comprehensive Preliminary Endangerment Assessment (PEA) of dense non-aqueous liquid phase hydrocarbon (chlorinated solvents) contamination at a former printed circuit board manufacturing facility. This evaluation was used for litigation support and may be used as the basis for reaching closure of the site with the lead regulatory agency.

Client: Confidential, San Francisco, California

Summarized epidemiological evidence for connective tissue and autoimmune diseases for product liability litigation. Identified epidemiological research efforts on the health effects of medical prostheses. This research was used in a meta-analysis of the health effects and as a briefing tool for non-public health professionals.

Client: Confidential, Bogotá, Columbia

Prepared comprehensive evaluation of the potential health risks associated with the redevelopment of a 13.7 hectares plastic manufacturing facility in Bogotá, Colombia. The risk assessment was used as the basis for the remedial goals and closure of the site.

Client: Confidential, Los Angeles, California

Prepared comprehensive human health risk assessment of students, staff, and residents potentially exposed to heavy metals (principally cadmium) and VOCs from soil and soil vapor at 12-acre former crude oilfield and municipal landfill. The site is currently used as a middle school housing approximately 3,000 children. The evaluation determined that the site was safe for the current and future uses and was used as the basis for regulatory closure of site.

Client: Confidential, Los Angeles, California

Managed remedial investigation (RI) of heavy metals and volatile organic chemicals (VOCs) for a 15-acre former manufacturing facility. The RI investigation of the site included over 800 different sampling locations and the collection of soil, soil gas, and groundwater samples. The site is currently used as a year round school housing approximately 3,000 children. The Remedial Investigation was performed in a manner

Comment Letter 16 (page 79 of 106)

that did not interrupt school activities and met the time restrictions placed on the project by the overseeing regulatory agency. The RI Report identified the off-site source of metals that impacted groundwater beneath the site and the sources of VOCs in soil gas and groundwater. The RI included a numerical model of vapor intrusion into the buildings at the site from the vadose zone to determine exposure concentrations and an air dispersion model of VOCs from the proposed soil vapor treatment system. The Feasibility Study for the Site is currently being drafted and may be used as the basis for granting closure of the site by DTSC.

Client: Confidential, Los Angeles, California

Prepared comprehensive human health risk assessment of students, staff, and residents potentially exposed to heavy metals (principally lead), VOCs, SVOCs, and PCBs from soil, soil vapor, and groundwater at 15-acre former manufacturing facility. The site is currently used as a year round school housing approximately 3,000 children. The evaluation determined that the site was safe for the current and future uses and will be basis for regulatory closure of site.

Client: Confidential, Los Angeles, California

Prepared comprehensive evaluation of VOC vapor intrusion into classrooms of middle school that was former 15-acre industrial facility. Using the Johnson-Ettinger Vapor Intrusion model, the evaluation determined acceptable soil gas concentrations at the site that did not pose health threat to students, staff, and residents. This evaluation is being used to determine cleanup goals and will be basis for regulatory closure of site.

Client - Dominguez Energy, Carson, California

Prepared comprehensive evaluation of the potential health risks associated with the redevelopment of 6-acre portion of a 500-acre oil and natural gas production facility in Carson, California. The risk assessment was used as the basis for closure of the site.

Kaiser Ventures Incorporated, Fontana, California

Prepared health risk assessment of semi-volatile organic chemicals and metals for a fifty-year old wastewater treatment facility used at a 1,100-acre former steel mill. This evaluation was used as the basis for granting closure of the site by lead regulatory agency.

Comment Letter 16 (page 80 of 106)

AMR Freight - Los Angeles, California

Prepared a comprehensive Preliminary Endangerment Assessment (PEA) of petroleum hydrocarbon and metal contamination of a former freight depot. This evaluation was as the basis for reaching closure of the site with lead regulatory agency.

Kaiser Ventures Incorporated, Fontana, California

Prepared comprehensive health risk assessment of semi-volatile organic chemicals and metals for 23-acre parcel of a 1,100-acre former steel mill. The health risk assessment was used to determine clean up goals and as the basis for granting closure of the site by lead regulatory agency. Air dispersion modeling using ISCST3 was performed to determine downwind exposure point concentrations at sensitive receptors within a 1 kilometer radius of the site. The results of the health risk assessment were presented at a public meeting sponsored by the Department of Toxic Substances Control (DTSC) in the community potentially affected by the site.

Unocal Corporation - Los Angeles, California

Prepared comprehensive assessment of petroleum hydrocarbons and metals for a former petroleum service station located next to sensitive population center (elementary school). The assessment used a probabilistic approach to estimate risks to the community and was used as the basis for granting closure of the site by lead regulatory agency.

Client: Confidential, Los Angeles, California

Managed oversight of remedial investigation most contaminated heavy metal site in California. Lead concentrations in soil excess of 68,000,000 parts per billion (ppb) have been measured at the site. This State Superfund Site was a former hard chrome plating operation that operated for approximately 40-years.

Client: Confidential, San Francisco, California

Coordinator of regional monitoring program to determine background concentrations of metals in air. Acted as liaison with SCAQMD and CARB to perform co-location sampling and comparison of accepted regulatory method with ASTM methodology.

Comment Letter 16 (page 81 of 106)

Client: Confidential, San Francisco, California

Analyzed historical air monitoring data for South Coast Air Basin in Southern California and potential health risks related to ambient concentrations of carcinogenic metals and volatile organic compounds. Identified and reviewed the available literature and calculated risks from toxins in South Coast Air Basin.

IT Corporation, North Carolina

Prepared comprehensive evaluation of potential exposure of workers to air-borne VOCs at hazardous waste storage facility under SUPERFUND cleanup decree. Assessment used in developing health based clean-up levels.

Professional Associations

American Public Health Association (APHA)
Association for Environmental Health and Sciences (AEHS)
American Chemical Society (ACS)
California Redevelopment Association (CRA)
International Society of Environmental Forensics (ISEF)
Society of Environmental Toxicology and Chemistry (SETAC)

Publications and Presentations:

Books and Book Chapters

Sullivan, P., **J.J. J. Clark,** F.J. Agardy, and P.E. Rosenfeld. (2007). *Synthetic Toxins In The Food, Water and Air of American Cities.* Elsevier, Inc. Burlington, MA.

Sullivan, P. and **J.J. J. Clark.** 2006. *Choosing Safer Foods, A Guide To Minimizing Synthetic Chemicals In Your Diet.* Elsevier, Inc. Burlington, MA.

Sullivan, P., Agardy, F.J., and **J.J.J. Clark.** 2005. *The Environmental Science of Drinking Water.* Elsevier, Inc. Burlington, MA.

Sullivan, P.J., Agardy, F.J., **Clark, J.J.J.** 2002. *America's Threatened Drinking Water: Hazards and Solutions.* Trafford Publishing, Victoria B.C.

Clark, J.J.J. 2001. "TBA. Chemical Properties, Production & Use, Fate and Transport, Toxicology, Detection in Groundwater, and Regulatory Standards" in *Oxygenates in the Environment.* Art Diaz, Ed.. Oxford University Press: New York.

Clark, J.J.J. 2000. "Toxicology of Perchlorate" in *Perchlorate in the Environment.* Edward Urbansky, Ed. Kluwer/Plenum: New York.

Clark, J.J.J. 1995. Probabilistic Forecasting of Volatile Organic Compound Concentrations At The Soil Surface From Contaminated Groundwater. UMI.

Comment Letter 16 (page 82 of 106)

Baker, J., **Clark, J.J.J.**; Stanford, J.T. 1994. Ex Situ Remediation of Diesel Contaminated Railroad Sand by Soil Washing. Principles and Practices for Diesel Contaminated Soils, Volume III. P.T. Kostecki, E.J. Calabrese, and C.P.L. Barkan, eds. Amherst Scientific Publishers, Amherst, MA. pp 89-96

Journal and Proceeding Articles

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equialency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. Organohalogen Compounds. Volume 70 (2008) page 002254.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008) Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. Organohalogen Compounds. Volume 70 (2008) page 000527

Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** (2007). "Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." *Environmental Research.* 105:194-199.

Rosenfeld, P.E., **Clark, J. J.,** Hensley, A.R., and Suffet, I.H. 2007. "The Use Of An Odor Wheel Classification For The Evaluation of Human Health Risk Criteria For Compost Facilities" Water Science & Technology. 55(5): 345-357.

Hensley A.R., Scott, A., Rosenfeld P.E., **Clark, J.J.J.** 2006. "Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility." The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006, August 21 – 25, 2006. Radisson SAS Scandinavia Hotel in Oslo Norway.

Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2005. "The Value Of An Odor Quality Classification Scheme For Compost Facility Evaluations" The U.S. Composting Council's 13th Annual Conference January 23 - 26, 2005, Crowne Plaza Riverwalk, San Antonio, TX.

Rosenfeld, P.E., **Clark, J. J.** and Suffet, I.H. 2004. "The Value Of An Odor Quality Classification Scheme For Urban Odor" WEFTEC 2004. 77th Annual Technical Exhibition & Conference October 2 - 6, 2004, Ernest N. Morial Convention Center, New Orleans, Louisiana.

Clark, J.J.J. 2003. "Manufacturing, Use, Regulation, and Occurrence of a Known Endocrine Disrupting Chemical (EDC), 2,4-Dichlorophnoxyacetic Acid (2,4-D) in California Drinking Water Supplies." National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Minneapolis, MN. March 20, 2003.

Comment Letter 16 (page 83 of 106)

Rosenfeld, P. and **J.J.J. Clark**. 2003. "Understanding Historical Use, Chemical Properties, Toxicity, and Regulatory Guidance" National Groundwater Association Southwest Focus Conference: Water Supply and Emerging Contaminants. Phoenix, AZ. February 21, 2003.

Clark, J.J.J., Brown A. 1999. Perchlorate Contamination: Fate in the Environment and Treatment Options. In Situ and On-Site Bioremediation, Fifth International Symposium. San Diego, CA, April, 1999.

Clark, J.J.J. 1998. Health Effects of Perchlorate and the New Reference Dose (RfD). Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.

Browne, T., **Clark, J.J.J.** 1998. Treatment Options For Perchlorate In Drinking Water. Proceedings From the Groundwater Resource Association Seventh Annual Meeting, Walnut Creek, CA, October 23, 1998.

Clark, J.J.J., Brown, A., Rodriguez, R. 1998. The Public Health Implications of MtBE and Perchlorate in Water: Risk Management Decisions for Water Purveyors. Proceedings of the National Ground Water Association. Anaheim, CA. June 3-4, 1998.

Clark J.J.J., Brown, A., Ulrey, A. 1997. Impacts of Perchlorate On Drinking Water In The Western United States. U.S. EPA Symposium on Biological and Chemical Reduction of Chlorate and Perchlorate, Cincinnati, OH, December 5, 1997.

Clark, J.J.J.; Corbett, G.E.; Kerger, B.D.; Finley, B.L.; Paustenbach, D.J. 1996. Dermal Uptake of Hexavalent Chromium In Human Volunteers: Measures of Systemic Uptake From Immersion in Water At 22 PPM. Toxicologist. 30(1):14.

Dodge, D.G.; **Clark, J.J.J.**; Kerger, B.D.; Richter, R.O.; Finley, B.L.; Paustenbach, D.J. 1996. Assessment of Airborne Hexavalent Chromium In The Home Following Use of Contaminated Tapwater. Toxicologist. 30(1):117-118.

Paulo, M.T.; Gong, H., Jr.; **Clark, J.J.J.** (1992). Effects of Pretreatment with Ipratroprium Bromide in COPD Patients Exposed to Ozone. American Review of Respiratory Disease. 145(4):A96.

Harber, P.H.; Gong, H., Jr.; Lachenbruch, A.; **Clark, J.**; Hsu, P. (1992). Respiratory Pattern Effect of Acute Sulfur Dioxide Exposure in Asthmatics. American Review of Respiratory Disease. 145(4):A88.

McManus, M.S.; Gong, H., Jr.; Clements, P.; **Clark, J.J.J.** (1991). Respiratory Response of Patients With Interstitial Lung Disease To Inhaled Ozone. American Review of Respiratory Disease. 143(4):A91.

Gong, H., Jr.; Simmons, M.S.; McManus, M.S.; Tashkin, D.P.; Clark, V.A.; Detels, R.; **Clark, J.J.** (1990). Relationship Between Responses to Chronic Oxidant and Acute

Comment Letter 16 (page 84 of 106)

Ozone Exposures in Residents of Los Angeles County. American Review of Respiratory Disease. 141(4):A70.

Tierney, D.F. and **J.J.J. Clark.** (1990). Lung Polyamine Content Can Be Increased By Spermidine Infusions Into Hyperoxic Rats. American Review of Respiratory Disease. 139(4):A41.

Comment Letter 16 (page 85 of 106)

EXHIBIT B

Comment Letter 16 (page 86 of 106)

794 Sawnee Bean Road
Thetford Center VT 05075
Norman Marshall, President
(802) 356-2969
nmarshall@smartmobility.com

September 11, 2025

Aidan P. Marshall
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

Subject: Coachella Airport Business Park

Dear Mr. Marshall,

I have reviewed the vehicle miles traveled (VMT) impacts of the City of Coachella Draft Environmental Impact Report ("DEIR") dated July 2025 for the proposed Coachella Airport Business Park Development (SCH NO. 2023040106).

I make the following findings:

1) The project would result in a significant VMT impact.
2) The significant VMT impact is only partially mitigated, and the proposed mitigation is not as strong as the CAPCOA vanpool measure referenced in the DEIR and used to estimate the VMT reduction. The full CAPCOA vanpool measure should be required.
3) The DEIR's air quality analysis overestimates VMT mitigation and should be redone.
4) The DEIR's air quality analysis underestimates truck trip lengths and should be redone.
5) SR 86 to the north of the project already carries a high truck volume that creates a significant cancer risk. This project is estimated to add another 470 truck trips per day to this section of SR 86. An air toxics analysis should be done.

1

Comment Letter 16 (page 87 of 106)

The Project Would Result in a Significant VMT Impact

The DEIR states:

> The interpolated values resulted in a Project VMT of 38.2 and a regional average VMT of 31.1 in Year 2027, which results in the proposed Project VMT that is 122.8 percent of the regional average and is thus considered a significant impact. At buildout in 2045, the Project VMT would be 30.2 while the regional average would be 29.0. Since the Project VMT would exceed the regional average, it is considered a significant impact. (DEIR, p. 4.17-31)

The project includes:

Phase I

- Large Warehouse – 110,900 square feet (sf)
- Small Warehouse – 24,000 sf
- Small Business – 31,500 sf
- Personal Vehicle Storage Facilities – 38,400 sf
- Self-storage – 67,300 sf
- Fast Food Restaurant with Drive Through – 4,650 sf
- Service Station with Convenience Store – 10 vehicle fueling positions and 4,000 sf Convenience Store

Phase II

- Large Warehouse – 48,800 sf
- Small Warehouse – 52,800 sf
- Small Business – 22,500 sf
- Personal Vehicle Storage Facilities – 38,400 sf

Phase III

- Large Warehouse – 73,400 sf
- Small Warehouse – 19,200 sf
- Small Business – 27,000 sf
- Self-storage – 61,300 sf (DEIR, p. 4-17-5)

The DEIR states that the significant VMT impact is limited to the large warehouse use, but it is applicable to all of the non-retail uses. The DEIR's stated rationale for screening out the other non-retail uses is based on an assumption that "The Project includes multiple non-residential land uses which is considered as a mixed-use project." (DEIR, 4.17-30) The DEIR then asserts that "The County Guidelines recommend evaluation of each land use separately in case of a mixed-use project." (DEIR, 4.17-30) This is not an accurate representation of the County Guidelines or the Project.

First, the County Guidelines do not actually "recommend" evaluating the uses separately, the word used is "may." The Guidelines state:

2

Comment Letter 16 (page 88 of 106)

> To identify if the proposed project requires a VMT analysis, the City of Riverside may evaluate each component of a mixed-use project independently and apply the significance threshold for each project type included (e.g. residential and retail).[1]

In the trip generation calculations, the DEIR groups most of these categories together as "industrial park," excluding only the fast-food restaurant, convenience store, and mini-warehouse uses. (DEIR, p. 4.17-7 - 4.17-9)

Second, the label "mixed-use" is generally applied to walkable, relatively dense mixes of residential with retail and other services.[2] This project does not fit this label. The County Guidelines do not define "mixed-use" in the VMT section, but elsewhere in the Guidelines it is recommended that estimating trip internalization for mixed-use projects be done by applying either "EPA's mixed-use trip generation (or MXD) methodology or ITE's mixed use trip generation method." (p. 16) Neither the MXD or ITE tools split land use down to the level done in the DEIR when doing VMT screening. The MXD tool totals industrial land uses within the general categories light industrial, manufacturing and warehousing/self-storage.[3] The EPA states that the purpose of the MXD tool is for modeling residential mixed-use sites, as opposed to single-use, automobile-dependent, suburban sites.[4] The ITE tool does not include industrial uses at all, with the implication that mixed-use does not include industrial uses.

This project includes no residential development and does not fit standard definitions of mixed use. None of the industrial uses are properly screened from VMT analysis. Even if the definition of "mixed-use" is stretched to cover a project that has no residential use, and is primarily industrial, there is no justification for counting the smaller warehouses in the project as separate small uses that are screened from VMT analysis when they would support industrial warehouse uses like the larger warehouse. Only the retail uses are properly screened from VMT analysis, because they are small and locally-serving.

The DEIR estimates that the significant VMT finding applies to only 285 of the estimated 741 employees in the large warehouse category. If this is corrected to include all employees except the retail employees, **the significant VMT finding applies to 689 of the estimated 741 employees.**[5]

---

[1] City of Riverside, Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment, April 2025, p. 27.
[2] https://www.epa.gov/smartgrowth/mixed-use-trip-generation-model ("Neighborhoods that mix land uses and make walking safe and convenient allow residents and workers to drive significantly less, thereby reducing traffic and realizing other benefits. To help give communities better tools to analyze new development, EPA, in cooperation with the Institute of Transportation Engineers (ITE), worked with leading researchers and practitioners to develop new data and methods to estimate the trip-generation impacts of mixed-use developments.").
[3] https://www.epa.gov/smartgrowth/mixed-use-trip-generation-model
[4] https://www.epa.gov/smartgrowth/mixed-use-trip-generation-model
[5] 52 of the employees are retail – Haagen Company, Coachella Airport Business Park Traffic Impact Analysis, September 2024 PDF p. 491 of 492.

3

Comment Letter 16 (page 89 of 106)

The Significant VMT Impact is Only Partially Mitigated

The mitigation proposed in the DEIR only partially mitigates the significant VMT impacts. The DEIR states:

> Although the proposed Project would be required to adhere to all applicable policies in the City's General Plan, as well as Measure T-11 under the CAPCOA Handbook, this would only provide a 3.55 percent reduction to project/site employee commute VMT (i.e. homebase work attraction VMT). This would result in a VMT of approximately 36.5 for the proposed Project in Year 2027. Since this would remain higher than projected regional VMT of 31.1, even with implementation of all feasible mitigation in this rural location, the proposed Project would result in a significant and unavoidable transportation impact related to VMT. (DEIR, p. 4-17-33)

The proposed mitigation is:

> The Project Applicant shall require any business that operates in the proposed project and has 20 or more full-time employees shall implement at least one of the following programs:
>
> - Pre-tax election program to allow employees to exclude wages for commuting costs for transit or vanpools;
> - An employer supplied transit pass;
> - Employer provided transit; or
> - Other, similar demand management programs. (DEIR p. ES-15)

The DEIR estimates VMT reduction on the basis of the vanpool condition using data in the California Air Pollution Control Officers Association ("CAPCOA") *Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity* (2021) However, the vanpool condition in the DEIR is substantially different than the definition in the Handbook. The Handbook states that up to 20.4% reduction is possible with vanpooling when the employer covers "... the capital costs of vehicle acquisition and the labor costs of drivers, either through incentives to current employees or the hiring of dedicated drivers." (Handbook, p. 104) The Handbook definition requires substantial payments by employers above wages; but the DEIR condition requires no additional payments, and only paperwork to make the employee costs pre-tax. Therefore, the Handbook formula is not applicable to quantify reductions achieved by the DEIR's proposed mitigation.

To achieve the maximum possible VMT reduction, the DEIR vanpool measure should be rewritten to match the Handbook definition.

The other mitigation measures listed are unlikely to significantly reduce VMT. The only bus route servicing the area, SunLine Route 8, provides has a stop at the Airport Boulevard/Palm Street intersection with 1-hour headways, a frequency that generally is considered inadequate for commuting. "Employer-supplied transit" would be infeasible unless it is in the form of vanpools as discussed above.

The DEIR Air Quality Analysis Overestimates VMT Mitigation

The air quality analysis assumes a 5% VMT reduction from "Measure T-6, Implement Commute Trip Reduction Program (Mandatory)." (DEIR Appendix B, PDF p. 113, 186-187). This is a totally different

4

Comment Letter 16 (page 90 of 106)

mitigation plan than that proposed as a condition in the body of the DEIR and discussed above. Furthermore, the DEIR estimates only a 3.55% VMT as a result of the mitigation condition with the reduction only applicable to the large warehouse use – versus 5% applied in the air quality analysis to all trips.

The air quality analysis should be corrected so that the VMT mitigation assumptions are consistent.

The DEIR Underestimates Truck Trip Lengths in the Air Quality Analysis

The DEIR's air quality analysis applies CalEEMod default trip lengths with an average trip length of 8.62 miles for the industrial uses. (DEIR Appendix B, PDF p. 186-187) The South Coast Air Quality Management District (SCAQMD) recommends that large truck trip lengths should be set to the distance from the Ports of Long Beach and Los Angeles. SCAQMD's November 22, 2023 comments on the Hemlock Warehouse Development Project Draft SEIR in the City of Fontana which state:

> However, it is essential to note that the distance from the Proposed Project site to the Port of Los Angeles or Long Beach is approximately 70 miles one-way. Thus, South Coast AQMD staff is concerned about underestimating truck emissions due to the shorter distance that HHDT is analyzed in the Draft SEIR. Hence, it is recommended that the Lead Agency revise the truck emissions analysis using the more conservative trip length between 40 to 70 miles, of which 40 miles could be used for local and 70 miles for Port trips and include the revision in the final CEQA document. Tailoring these parameters and assumptions to be based on project-specific data will ensure a more accurate assessment of emissions, accounting for the unique circumstances and logistical realities of the Proposed Project. (p. 2)

The Project site is about 150 miles from the Ports of Los Angeles and Long Beach and the SCAQMD recommended heavy truck trip length is 150 miles. The air quality analysis should be redone to account for longer truck trip lengths.

Sincerely,

Norman L. Marshall

Norman L. Marshall

5

Comment Letter 16 (page 91 of 106)

Resume

NORMAN L. MARSHALL, PrESIDENT

nmarshall@smartmobility.com

EDUCATION:

Master of Science in Engineering Sciences, Dartmouth College, Hanover, NH, 1982

Bachelor of Science in Mathematics, Worcester Polytechnic Institute, Worcester, MA, 1977

PROFESSIONAL EXPERIENCE: (36 Years, 22 at Smart Mobility, Inc.)

Norm Marshall helped found Smart Mobility, Inc. in 2001. Prior to this, he was at RSG for 14 years where he developed a national practice in travel demand modeling. He specializes in analyzing the relationships between the built environment and travel behavior and doing planning that coordinates multi-modal transportation with land use and community needs.

Regional Land Use/Transportation Scenario Planning

Portland Area Comprehensive Transportation System (PACTS) – the Portland Maine Metropolitan Planning Organization. Updating regional travel demand model with new data (including AirSage), adding a truck model, and multiclass assignment including differentiation between cash toll and transponder payments.

Loudoun County Virginia Dynamic Traffic Assignment – Enhanced subarea travel demand model to include Dynamic Traffic Assignment (Cube). Model being used to better understand impacts of roadway expansion on induced travel.

Vermont Agency of Transportation-Enhanced statewide travel demand model to evaluate travel impacts of closures and delays resulting from severe storm events. Model uses innovate Monte Carlo simulations process to account for combinations of failures.

California Air Resources Board – Led team including the University of California in $250k project that reviewed the ability of the new generation of regional activity-based models and land use models to accurately account for greenhouse gas emissions from alternative scenarios including more compact walkable land use and roadway pricing. This work included hands-on testing of the most complex travel demand models in use in the U.S. today.

Climate Plan (California statewide) – Assisted large coalition of groups in reviewing and participating in the target setting process required by Senate Bill 375 and administered by the California Air Resources

6

Comment Letter 16 (page 92 of 106)

Board to reduce future greenhouse gas emissions through land use measures and other regional initiatives.

Chittenden County (2060 Land use and Transportation Vision Burlington Vermont region) – led extensive public visioning project as part of MPO's long-range transportation plan update.

Flagstaff Metropolitan Planning Organization – Implemented walk, transit and bike models within regional travel demand model. The bike model includes skimming bike networks including on-road and off-road bicycle facilities with a bike level of service established for each segment.

Chicago Metropolis Plan and Chicago Metropolis Freight Plan (6-county region)— developed alternative transportation scenarios, made enhancements in the regional travel demand model, and used the enhanced model to evaluate alternative scenarios including development of alternative regional transit concepts. Developed multi-class assignment model and used it to analyze freight alternatives including congestion pricing and other peak shifting strategies.

Municipal Planning

City of Grand Rapids – Michigan Street Corridor – developed peak period subarea model including non-motorized trips based on urban form. Model is being used to develop traffic volumes for several alternatives that are being additional analyzed using the City's Synchro model

City of Omaha - Modified regional travel demand model to properly account for non-motorized trips, transit trips and shorter auto trips that would result from more compact mixed-use development. Scenarios with different roadway, transit, and land use alternatives were modeled.

City of Dublin (Columbus region) – Modified regional travel demand model to properly account for non-motorized trips and shorter auto trips that would result from more compact mixed-use development. The model was applied in analyses for a new downtown to be constructed in the Bridge Street corridor on both sides of an historic village center.

City of Portland, Maine – Implemented model improvements that better account for non-motorized trips and interactions between land use and transportation and applied the enhanced model to two subarea studies.

City of Honolulu – Kaka'ako Transit Oriented Development (TOD) – applied regional travel demand model in estimating impacts of proposed TOD including estimating internal trip capture.

7

Comment Letter 16 (page 93 of 106)

City of Burlington (Vermont) Transportation Plan – Led team that developing Transportation Plan focused on supporting increased population and employment without increases in traffic by focusing investments and policies on transit, walking, biking and Transportation Demand Management.

Transit Planning

Regional Transportation Authority (Chicago) and Chicago Metropolis 2020 – evaluated alternative 2020 and 2030 system-wide transit scenarios including deterioration and enhance/expand under alternative land use and energy pricing assumptions in support of initiatives for increased public funding.

Capital Metropolitan Transportation Authority (Austin, TX) Transit Vision – analyzed the regional effects of implementing the transit vision in concert with an aggressive transit-oriented development plan developed by Calthorpe Associates. Transit vision includes commuter rail and BRT.

Bus Rapid Transit for Northern Virginia HOT Lanes (Breakthrough Technologies, Inc and Environmental Defense.) – analyzed alternative Bus Rapid Transit (BRT) strategies for proposed privately-developing High Occupancy Toll lanes on I-95 and I-495 (Capital Beltway) including different service alternatives (point-to-point services, trunk lines intersecting connecting routes at in-line stations, and hybrid).

Roadway Corridor Planning

I-30 Little Rock Arkansas – Developed enhanced version of regional travel demand model that integrates TransCAD with open source Dynamic Traffic Assignment (DTA) software, and used to model I-30 alternatives. Freeway bottlenecks are modeled much more accurately than in the base TransCAD model.

South Evacuation Lifeline (SELL) – In work for the South Carolina Coastal Conservation League, used Dynamic Travel Assignment (DTA) to estimate evaluation times with different transportation alternatives in coastal South Caroline including a new proposed freeway.

Hudson River Crossing Study (Capital District Transportation Committee and NYSDOT) – Analyzing long term capacity needs for Hudson River bridges which a special focus on the I-90 Patroon Island Bridge where a microsimulation VISSIM model was developed and applied.

PUBLICATIONS AND PRESENTATIONS (partial list)

Comment Letter 16 (page 94 of 106)

DTA Love: Co-leader of workshop on Dynamic Traffic Assignment at the June 2019 Transportation Research Board Planning Applications Conference.

Forecasting the Impossible: The Status Quo of Estimating Traffic Flows with Static Traffic Assignment and the Future of Dynamic Traffic Assignment. *Research in Transportation Business and Management* 2018.

Assessing Freeway Expansion Projects with Regional Dynamic Traffic Assignment. Presented at the August 2018 Transportation Research Board Tools of the Trade Conference on Transportation Planning for Small and Medium Sized Communities.

Vermont Statewide Resilience Modeling. With Joseph Segale, James Sullivan and Roy Schiff. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

Assessing Freeway Expansion Projects with Regional Dynamic Traffic Assignment. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

Pre-Destination Choice Walk Mode Choice Modeling. Presented at the May 2017 Transportation Research Board Planning Applications Conference.

A Statistical Model of Regional Traffic Congestion in the United States, presented at the 2016 Annual Meeting of the Transportation Research Board.

MEMBERSHIPS/AFFILIATIONS

Associate Member, Transportation Research Board (TRB)

Member and Co-Leader Project for Transportation Modeling Reform, Congress for the New Urbanism (CNU)

9

Comment Letter 16 (page 95 of 106)

EXHIBIT C

Comment Letter 16 (page 96 of 106)

WILSON IHRIG
ACOUSTICS, NOISE & VIBRATION

CALIFORNIA
WASHINGTON
NEW YORK

WI #25-001.36

September 11, 2025

Aidan P. Marshall
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080

SUBJECT: Coachella Airport Business Park Project
City of Coachella, CA
Review and Comment on Noise Study

Dear Mr. Marshall,

Per your request, Wilson Ihrig has reviewed the information and noise impact analysis in the following documents:

Coachella Airport Business Park Project
Draft Environmental Impact Report, July 2025 (DEIR)
Appendix H Noise & Groundborne Vibration Impact Analysis (Noise Study)

The Coachella Airport Business Park (Project) would result in the construction of a new business park development, including large and small warehouses, a small retrial and restaurant development, a fuel station, a parking structure, and an IDD substation facility. The site is surrounded immediately by industrial uses to the west, agricultural uses to the east, and residences to the south.

Wilson Ihrig, Acoustical Consultants, has practiced exclusively in the field of acoustics since 1966. During our 57 years of operation, we have prepared hundreds of noise studies for Environmental Impact Reports and Statements. We have one of the largest technical laboratories in the acoustical consulting industry. We also utilize industry-standard acoustical programs such as Roadway Construction Noise Model (RCNM), SoundPLAN, and CADNA. In short, we are well qualified to prepare environmental noise studies and review studies prepared by others.

5900 HOLLIS STREET, SUITE T1 | EMERYVILLE, CA 94608 | (510) 658-6719 | WWW.WILSONIHRIG.COM

Comment Letter 16 (page 97 of 106)

Adverse Effects of Noise[1]

Although the health effects of noise are not taken as seriously in the United States as they are in other countries, they are real and, in many parts of the country, pervasive.

Noise-Induced Hearing Loss. If a person is repeatedly exposed to loud noises, he or she may experience noise-induced hearing impairment or loss. In the United States, both the Occupational Health and Safety Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH) promote standards and regulations to protect the hearing of people exposed to high levels of industrial noise.

Speech Interference. Another common problem associated with noise is speech interference. In addition to the obvious issues that may arise from misunderstandings, speech interference also leads to problems with concentration fatigue, irritation, decreased working capacity, and automatic stress reactions. For complete speech intelligibility, the sound level of the speech should be 15 to 18 dBA higher than the background noise. Typical indoor speech levels are 45 to 50 dBA at 1 meter, so any noise above 30 dBA begins to interfere with speech intelligibility. The common reaction to higher background noise levels is to raise one's voice. If this is required persistently for long periods of time, stress reactions and irritation will likely result.

Sleep Disturbance. Noise can disturb sleep by making it more difficult to fall asleep, by waking someone after they are asleep, or by altering their sleep stage, e.g., reducing the amount of rapid eye movement (REM) sleep. Noise exposure for people who are sleeping has also been linked to increased blood pressure, increased heart rate, increase in body movements, and other physiological effects. Not surprisingly, people whose sleep is disturbed by noise often experience secondary effects such as cognitive decline, increased fatigue, depressed mood, and decreased work performance.

Cardiovascular and Physiological Effects. Human's bodily reactions to noise are rooted in the "fight or flight" response that evolved when many noises signaled imminent danger. These include increased blood pressure, elevated heart rate, and vasoconstriction. Prolonged exposure to acute noises can result in permanent effects such as hypertension and heart disease.

Impaired Cognitive Performance. Studies have established that noise exposure impairs people's abilities to perform complex tasks (tasks that require attention to detail or analytical processes) and it makes reading, paying attention, solving problems, and memorizing more difficult. This is why there are standards for classroom background noise levels and why offices and libraries are designed to provide quiet work environments.

[1] More information on these and other adverse effects of noise may be found in *Guidelines for Community Noise*, eds B Berglund, T Lindvall, and D Schwela, World Health Organization, Geneva, Switzerland, 1999. (https://www.who.int/docstore/peh/noise/Comnoise-1.pdf)

Comment Letter 16 (page 98 of 106)

Insufficient Construction Noise Mitigation

The DEIR shows predicted construction noise levels of 86 to 89 dBA at the nearest sensitive receptor [DEIR p. 4.13-19]. As indicated in Table 4.13-8, these levels exceed the Federal Transit Authority Noise and Vibration Impact Assessment Manual Noise (FTA Manual) threshold adopted by the DEIR for construction noise.[2] The DEIR claims, without evidence, that the Mitigation Measures Noise-1 would reduce levels to less than significant. While the mitigation measures outlined are generally good practice for any construction site, they would not reduce levels by 6-9 dB in order to meet the FTA threshold.

Noise-1a states that construction activities shall be limited to certain hours on weekdays and weekends. This is already required by the Country of Riverside Municipal Code in order for construction activities to be exempt from the county noise criteria of 65 dBA / 45 dBA for residential uses presented in Table 4.13-6 [DEIR p.4.13-15]. Therefore, this is not a mitigation measure, but a county requirement for the work to proceed. If this construction hour restriction was not met, the predicted construction noise levels would be 24 dBA over the county daytime criteria.

Noise-1b states that construction equipment shall be properly maintained and equipped with exhaust mufflers. The Noise Study's incorrect claim that mufflers would reduce noise levels by 10 dB relies on an outdated EPA reference from the 1970s [Noise Study p. 21]. The FHWA Road Construction Noise Model reference levels used in the DEIR are based on data collected through the 2000s using hundreds of emission measurements for some equipment [DEIR p. 4.13-18]. These data already reflect the use of mufflers, which are standard for modern equipment in good operating condition. Further, mufflers only reduce noise from internal combustion engines of the equipment, not activity noise from breaking up or impacting earth and other materials. This measure would not reduce the total predicted construction levels below FTA thresholds.

Noise-1c states that staging areas shall be located away from sensitive receptor. This is good standard practice but only applies to certain equipment. Activities that need to take place within 60 feet of the nearby residences will remain above the FTA threshold.

The DEIR does not discuss the use of temporary noise barriers or enclosures. This is a standard mitigation measure for construction noise and could reduce levels by 8-10 dB depending on their placement, material, and height.[3] The Project should evaluate the effectiveness of this mitigation measure to reduce levels to below the threshold adopted by the DEIR.

Inadequate Construction Noise Impact Criteria

California Environmental Quality Act Guidelines cited in the DEIR state that impacts to noise would be significant if the proposed project would result in "generation of a substantial temporary or permanent increase in ambient noise levels" [DEIR p. 4.13-15]. The DEIR construction noise analysis fails to consider increase over ambient levels and instead compares estimated construction noise levels to the FTA Manual threshold of 80 dBA. The cited FTA document is a guidance document, and

[2] https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf
[3] https://www.fhwa.dot.gov/environment/noise/construction_noise/rcnm/rcnm.pdf

Comment Letter 16 (page 99 of 106)

it explicitly discourages projects against using its absolute noise criteria values without consideration of local conditions [FTA page 179, see Figure 1 below].

> No standardized criteria have been developed for assessing construction noise impact. Consequently, criteria must be developed on a project-specific basis unless local ordinances apply. As stated earlier in this section, local noise ordinances are typically not very useful in evaluating construction noise. They usually relate to nuisance and hours of allowed activity, and sometimes specify limits in terms of maximum levels, but are generally not practical for assessing the impact of a construction project. Project construction noise criteria should account for the existing noise environment, the absolute noise levels during construction activities, the duration of the construction, and the adjacent land

Figure 1 FTA Manual, Section on Construction Noise and Vibration (page 179)

Construction noise levels may cause community annoyance, even if levels are below the 80 dBA FTA threshold. The predicted construction noise levels of 86 to 89 dBA are up to 30 dB above ambient levels measured at LT-1 during construction hours of 7 a.m. to 6 p.m., as shown in Table 4.13-2 [DEIR p. 4.13-4].

As acknowledged in the Noise Study, "an increase of 5 dB is typically considered substantial" and "a 10 dB change is subjectively heard as an approximate doubling in loudness and would almost certainly cause an adverse change in community response" [Noise Study p. 6].

As shown in Figure 3-6 of the FTA Manual (reproduced below), which is based on actual case studies, community reaction to newly introduced noise gets stronger as noise above existing levels increases. Reactions to increases between 5 to 10 dB varied from "widespread complaints" to "threats of legal action" and increases above 15 dB consistently result in "vigorous action." A 30-dB increase would likely result in "vigorous action."

The City must revise the DEIR to properly evaluate construction noise impacts, including the noise increase over ambient levels at sensitive receptor locations.

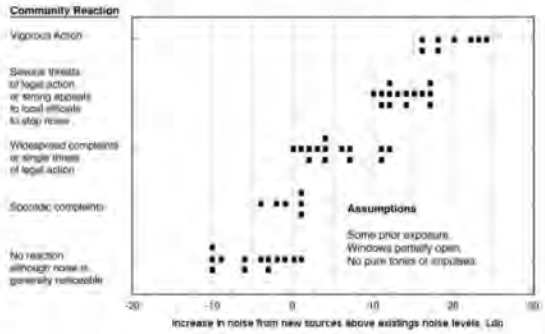


Figure 3-6 Community Reaction to New Noise, Relative to Existing Noise in a Residential Urban Environment

Figure 2 FTA Manual, Section on Construction Noise and Vibration (FTA page 18)

Comment Letter 16 (page 100 of 106)

Potentially Significant Truck Noise Impacts

The DEIR does not address potentially significant impacts from trucks coming in and out of the driveway at night. As shown in Exhibit 2.4, the driveway for the site is located directly across from residences on Airport Boulevard [DEIR p. 2.0-17]. Table 4.17-4 shows that the industrial park will generate 1,342 daily truck trips [DEIR p. 4.17-9]. The DEIR states that the air quality analysis assumed site operations would occur 24 hours, 7 days a week [DEIR p. 4.3-16]. Inconsistently, the nighttime noise SoundPLAN countours shown in Figure 8 of the Noise Study clearly exclude truck activity [Noise Study p.25].

The daytime SoundPLAN contours in Figure 7 of the Noise Study show predicted Leq from the the truck route at residences up to 55 dBA, *exceeding* the nighttime noise limit of 45 dBA. The Noise Study does not indicate what reference level was used for the truck route and the model may be underestimating truck noise at the driveway.

Further, the Leq represents noise from multiple truck events over a period of time (in this case, one hour). Single event truck noise at night can cause sleep disturbance. Reliance on the hourly Leq as the significance threshold is inadequate to assess the significance of truck noise on sleep disturbance. A 2018 review article by Basner and McGuire, titled *WHO Environmental Noise Guidelines for the European Region: A Systematic Review on Environmental Noise and Effects on Sleep* and published in the International Journal of Environmental Research and Public Health (shown in Figure 2) uses data from two fairly large studies of sleep disturbance due to road traffic to estimate the effect of single traffic noise events on sleep.[4]

Lmax levels used in Figure 3 describe the highest "instantaneous" noise level during a specified time period, caused by short duration noises such as a truck passby, pneumatic brake air release, backup alarm, etc. As explained by FHWA-HEP-17-053, the maximum sound level is important in judging the interference caused by a noise event with common activities.[5]

Noise from truck passbys along truck routes (off-site) noise can be modeled using an L_{max} reference level of 88 dBA at 50 ft and 50 mph for heavy trucks and 80 dBA for medium trucks based on current California Vehicle Code[6] noise emission requirements for vehicles. FHWA RCNM uses a reference Lmax of 84 dBA for truck noise at 50 feet. Adjusting for a lower speed entering the driveway (35 mph), the Lmax would be 80 dBA at 50 feet. As show below, this would result in an interior Lmax level of 64 dBA at the nearest residence, 60 feet away from the driveway. This assumes 15-dB reduction from a partially open window, which is standard practice for acoustical analyses in California. As shown in Figure 2, this level has an approximately 17% chance of disturbing sleep.

[4] International Journal of Environmental Research and Public Health 2018, 15, 519; doi:10.3390/ijerph15030519
[5] https://www.fhwa.dot.gov/Environment/noise/resources/sound_descr.cfm
[6] VEH division 12 chapter 5, Article 2.5; 27204 or medium trucks; 27207 for heavy trucks (with a governor/engine brake)
https://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?division=12.&chapter=5.&lawCode=VEH&article=2.5

Comment Letter 16 (page 101 of 106)

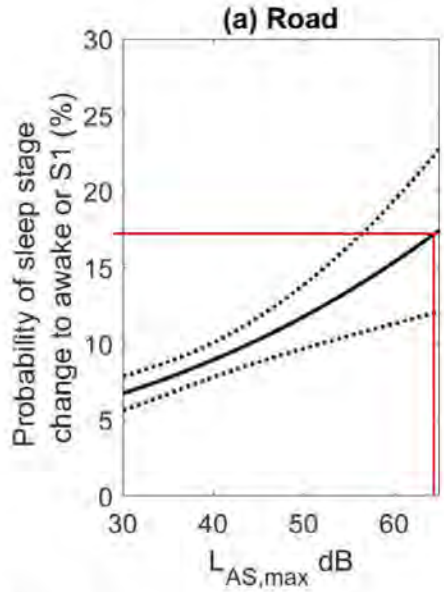


Figure 3 From Basner (2018), Figure 4 Probability of Sleep Disturbance

$$L_{max}(Distance, 50mph) = 84 - 20 \times log\ (60/50) = 82\ dBA$$

$$L_{max\,single}(Speed) = 82 + 25 \times log\ (35/50) = 79\ dBA$$

$$L_{max\,single\,interior} = 79 - 15dB = 64\ dBA$$ [7]

Mitigation measures could include operational conditions such as prohibiting line-haul trucks during nighttime hours, or routing nighttime line-haul trucks away from residential areas, or off-site mitigation in the form of new windows and mechanical ventilation for bedrooms affected by the nighttime line-haul operations. **The City should consider requiring the Project to reroute truck traffic away from the planned Airport Boulevard driveway and nearby residences.**

Operational Noise Impact Analysis May Underestimate HVAC

The SoundPLAN model may be underestimating the contribution from the warehouse mechanical equipment. The Noise Study does not provide input references for noise sources used in the operational analysis SoundPLAN model. The DEIR does state that noise levels associated with commercial air conditioning units can range from 60 to 65 dBA at 3 feet [DEIR p. 4.13-20]. The "Proposed Exterior Noise Sources" figure in Appendix A of the Noise Study shows AC unit and other

[7] Note that the exterior-to-interior adjustment in Equation 3 assumes that the window(s) in sleeping areas are at least partially open, which is standard practice for acoustical analyses in California where residents often leave windows at least partially open at night. (California Model Noise Element, page 378)

Comment Letter 16 (page 102 of 106)

mechanical equipment point sources, including 3-5 rooftop AC units for the small and large warehouses and two AC units for the restaurant. The contours shown in Figure 7 of the Noise Study do not appear to reflect these sources and appear to represent only the contribution of the truck route and loading docks [Noise Study p. 24]. The DEIR states that the rooftop units would be shielded, but there is no discussion of how much reduction is expected from rooftop parapets or other obstructions [p. 22]. Further, the most common large unit size for warehouses is 25 tons, with a typical sound power level of 85-95 dBA, which would be equivalent to a sound pressure level of 78-88 dBA at 3 feet (compared to 60-65 dBA discussed).[8] Since the cumulative operational noise levels shown in Table 4.13-9 are only 1 dB under the daytime and nighttime standards, the Project should verify and document the SoundPLAN inputs and results. **The City should confirm reference sound power levels used in the SoundPLAN model and indicate if any shielding was included from rooftop parapet walls.**

Traffic Analysis Missing Validation

The modeled CNEL levels for 2027 traffic along Airport Boulevard are lower than measured levels reported in the Noise Study. Table 4.13-10 shows a CNEL of 62 dBA between SR-86 SB Ramps and the Project Driveway [DEIR p. 4.13-22]. Table 4.13-2 shows a measured CNEL of 70 dBA at LT-1, 8 dB higher than the modeled 2027 level [DEIR p. 4.13-4]. The DEIR does not discuss this discrepancy or apply a calibration factor to the traffic noise model. The Caltrans Technical Noise Supplement to the Traffic Noise Analysis Protocol (TeNS) provides procedures for traffic studies, including a discussion of model accuracy tolerances.[9] The TeNS recommends that "differences of 5 dBA or more should be approached with caution" when validating traffic noise models [TeNS p. 4-13]. **The City should address this discrepancy and validate the traffic model using measured baseline data.**

Conclusion

The DEIR failed to consider ambient-based significance criteria for noise impacts for construction and does not provide sufficient mitigation measures for the predicted construction noise. The DEIR does not properly document SoundPLAN inputs for operational noise sources and may be underestimating mechanical noise. Finally, the DEIR traffic analysis is missing validation based on measured ambient levels.

Please feel free to contact me with any questions on this information.

Very truly yours,
Ani Toncheva, Senior Consultant, WILSON IHRIG

[8] https://www.shareddocs.com/hvac/docs/1005/Public/00/50FCO-17-28-01PD.pdf
[9] https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf

Comment Letter 16 (page 103 of 106)

WILSON IHRIG
ACOUSTICS, NOISE & VIBRATION



ANI TONCHEVA

Senior Consultant

Since joining the firm in 2011, Ani has conducted analyses for transit systems, vibration sensitive research facilities, public infrastructure, construction, and other environmental noise. She has contributed to literature reviews, including research on current practices of historical preservation. She has extensive experience working on construction projects in New York City and is well versed in local noise codes.

Education

- B.A., Physics; Bard College, New York

Professional Associations

- *Member*, National Council of Acoustical Consultants (NCAC)
- *Member*, Acoustical Society of America (ASA)
- *Board Member*, Transportation Research Forum (TRF), NY Chapter and International board

Research Paper

- NCHRP 25-25, *Current Practices to Address Construction Vibration and Potential Effects to Historic Buildings Adjacent to Transportation Projects*

Relevant Experience

BART Berryessa Station Transit Noise Impact and Mitigation, San Jose, CA Assisted with noise predictions and barrier design recommendations.

Massachusetts Bay Transportation Authority (MBTA) Green Line Extension (GLX), Boston, MA Lead analyst on noise predictions and barrier design.

RTD Eagle P3 Northwest Corridor Noise and Impacts, Denver, CO Assisted with data analysis and helped prepare final technical report.

Alameda CTC, I-880 Interchange Improvements Project (Whipple Road-Industrial Southwest and Industrial Parkway West), Hayward, CA Project Manager for traffic noise study.

Alameda CTC, I-80/Ashby Avenue Interchange Improvements, Berkeley, CA Project Manager for traffic noise study.

Millennium Bulk Terminal, Longview, WA Prepared noise analysis for the project's NEPA and SEPA environmental impact statements.

Peninsula Humane Society & SPCA Haskin Hill Sanctuary, Loma Mar, CA Prepared an environmental study for a planned animal sanctuary in Loma Mar.

Analog (ArtX) Hotel, Palo Alto, CA Prepared preliminary basis of design guidelines for a new five-story boutique hotel in a residential area.

Sunnydale Block 3A & 3B Mixed-Use Residential Development, San Francisco, CA Prepared a CCR Title 24 Noise Study Report for two, mixed-use, 5-story buildings.

Comment Letter 16 (page 104 of 106)

Columbia University Medical Center Medical and Graduate Education Building, New York, NY Conducted baseline noise survey and performed attended noise measurements during preliminary construction work.

Hudson Yards Tower C Foundations and Utilities, New York, NY Conducted a baseline noise survey prior to construction work including a combination of long-term unattended and short-term attended noise measurements.

PANYNJ Lincoln Tunnel Helix Rehabilitation, NJ Assisted in developing construction noise control and mitigation plan and implementing a remote long-term noise monitoring program at three locations.

MSK 74th Street, New York, NY Conducted baseline noise survey, assisted in developing construction noise control and mitigation plan, and implemented a long-term noise monitoring program at two locations.

NY MTA No. 7 Line Subway Extension Ventilation Facility Construction, New York, NY The project involved mining and lining of two shafts and construction of a 2-story ventilation building.

NY MTA ESA/LIRR Grand Central Terminal Fit-Out, New York, NY Prepared the Contractor's noise and vibration control plan updates for fit-out work conducted underground at the Grand Central Terminal Suburban Level.

San Francisco Planning Department, Alameda Street Wet Weather Tunnel and Folsom Area Sewer Improvement, San Francisco, CA Noise and vibration analysis for Folsom Area stormwater infrastructure improvements.

World Trade Center Vehicle Security Center, New York, NY Conducted baseline noise surveys, assisted in developing construction noise control plans, and implementing a remote long-term noise monitoring program.

50 Pine Street Condominiums, New York, NY
Project involved evaluating mechanical noise at residential dwelling units for NYC noise code

Uptown Newport, Newport Beach, CA
Evaluation of noise levels due to mechanical equipment at adjacent property.

Comment Letter 16 (page 105 of 106)

EXHIBIT D

Comment Letter 16 (page 106 of 106)

From: Nicole Criste
To: Aidan P. Marshall; Alisha C. Pember
Cc: Kendra Reif
Subject: Request for Extension of Public Review Period, Airport Business Park EIR (SCH No. 2023040106)
Date: Tuesday, August 26, 2025 3:08:42 PM

Mr. Marshall and Ms. Pember,

Ms. Reif and I have reviewed your request for an extension of time for this project. As detailed below, the City does not believe that an extension to the public review period is warranted, but the City will allow CARE CA to submit comments no later than the close of business on September 11, 2025 and consider them timely. Please send comments electronically to both Ms. Reif and me by that date.

Contrary to the assertions in your letter of August 21, 2025, the City has not, at any time, stated that it would withhold any documents related to the EIR until September 4, 2025. Your Public Records request specifically excluded the EIR and associated documents, and the City has promptly responded to both your requests for additional information relating to the EIR. Documents requested on August 6th were provided to you on August 11th, and documents requested on August 20th were provided on August 22nd.

Furthermore, *Ultramar v. South Coast Air Quality Man. Dist.* (1993) 17 Cal.App.4th 689, concerned notice of an environmental document that omitted an entire chapter related to the cumulative environmental effects of a project for a portion of the notice period; and *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3rd 818, concerned an EIR that the court deemed insufficient as an informational document because the EIR did not provide sufficient substantive information concerning the delivery of water to a proposed sand and gravel mine. Neither case applies here.

The City has complied with PRC § 21092(b)(1) and PRC § 21082.1(d), and met the requirements the courts have found sufficient in *Gilroy Citizens for Responsible Planning v. City of Gilroy (2006) 140 Cal.App.4th 911, 922-924*): "statutory requirements for public notice are fulfilled if the public agency makes a good faith effort to follow the procedures prescribed by law" when reviewing a lead agency's compliance with the notice requirements of PRC § 21092.

Please feel free to contact me if you have any questions.

Nicole Sauviat Criste
Consulting Planner
City of Coachella

TERRA NOVA PLANNING & RESEARCH, INC.®
42635 Melanie Place, Ste 101
PALM DESERT, CA. 92211
(760) 341-4800
FAX#: 760-341-4455
E-Mail: ncriste@terranovaplanning.com

Response to Comment Letter 16

Aidan P. Marshall
Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law
September 11, 2025

16-1 This comment provides a general introduction and includes a general summary of the proposed Project. Comment noted. The comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

16-2 This comment states that upon review of the DEIR by independent air quality, noise and transportation experts, the commenters opine that the DEIR, its supporting documentation, and City records demonstrate that the DEIR fails to comply with the requirements of CEQA by failing to analyze impacts associated with a necessary water line extension; use of onsite backup generators; cold storage uses; Valley Fever; and Toxic Air Contaminants (TACs).

The comment is overbroad and provides no substantial evidence to support the commenter's assertions. Responses to individual environmental issues are provided below.

16-3 This comment asserts that the DEIR's transportation analysis is unsupported in that the DEIR fails to support its VMT analysis with substantial evidence, overestimates reductions from VMT mitigation and underestimates the distance traveled by trucks. The commenters states that feasible mitigation that would further reduce the Project's impacts should be considered.

The comment is overbroad and provides no substantial evidence to support the commenter's assertions. Responses to individual environmental issues are provided below.

16-4 The commenter states that the DEIR fails to support its noise analysis and mitigation with substantial evidence. The comment is overbroad and provides no substantial evidence to support the commenter's assertions. Responses to individual environmental issues are provided below.

16-5 The commenter repeats the assertion that the DEIR lacks substantial evidence to support its conclusions, violates CEQA's analytical requirements, and fails to properly mitigate the Project's significant environmental impacts. The commenter urges the City to remedy the deficiencies in the DEIR by preparing a legally adequate revised DEIR and recirculating it for public review and comment. The commenter further notes that the City provided an extension to submit their DEIR comments due to the City's failure to make DEIR appendices and other reference documents available throughout the entire comment period and the commenter reserves the right to provide supplemental comments at any and all later proceedings related to this Project. The comment is overbroad and provides no substantial evidence to support the commenter's assertions. Responses to individual environmental issues are provided below. Detailed responses have been provided to each of the comments provided by the commenter. Furthermore, the City provided additional information requested in a timely

manner and allowed for an extended response period for the commenter to submit their comment letter. As such, no changes to the DEIR are warranted.

16-6 The commenter provides details regarding a Statement of Interest regarding its non-profit organization, Californians Allied for a Responsible Economy (CARE CA). This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

16-7 This comment asserts that the City failed to provide timely access to documents referenced, relied upon and incorporated by reference in the DEIR during the public review and comment period, which originally ran from July 21, 2025, to September 3, 2025, in violation of CEQA's requirement that the DEIR and all reference documents be made available during the comment period. As a result, the commenter requested access to reference documents and an extension of the DEIR comment period, which the City partially granted. The commenter continues with the details of previous letters sent to the City for the purpose of requesting additional Project information (refer to Comment Letters 9, 10 and 11 in this FEIR dated August 6, 2025), and Response 9-1). The commenter sent an additional letter on August 21, 2025, requesting additional information and an extension of the comment period for at least 45 days from the date on which the City releases these documents for public review, to which the City replied that late comment letters would be accepted no later than September 11, 2025. The commenter states that not all requested information was received and that the City's response provided insufficient time for public review of the requested DEIR reference documents, as required by CEQA. The commenter asserts that public review of the City's analysis of the Project's air emissions and health risk was substantially impaired without access to the DEIR Appendices' supporting calculations, which included the HRA's AERMOD files and risk calculation spreadsheets; moreover, the commenter asserts that review of other analyses in the DEIR remains impaired without access to documents listed in the DEIR's References sections.

See Responses 9-1, 17-1, 17-2, 17-3, and 17-4. CEQA requires that the public notice specify the address where copies of the draft EIR and all documents referenced in the draft EIR are available for review. (PRC § 21092(b)(1)). CEQA Guidelines Section 15085(e) also requires that the lead agency must post the draft EIR on its internet website, if any. (PRC § 21082.1(d)). The requirements of PRC § 21092(b)(1) and PRC § 21082.1(d) are meaningfully different. PRC § 21092(b)(1) requires that the notice shall specify the "address where copies of the draft environmental impact report or negative declaration, and all documents referenced in the draft environmental impact report or negative declaration, are available for review, and a description of how the draft environmental impact report or negative declaration can be provided in an electronic format." PRC § 21082.1(d) requires that the "draft environmental impact report, environmental impact report, negative declaration, or mitigated negative declaration" must be posted on the agency's website, if any. Therefore, while CEQA requires that the notice must include the *address* where all documents referenced in the draft environmental impact report are available for public review, CEQA does not require that all documents referenced by the draft EIR must be made available electronically or be posted on the agency's website.

The City published a Notice of Availability ("NOA") stating that the draft EIR would be available for public review and comment beginning on July 21, 2025. As required by CEQA, the NOA provided the address where all documents referenced in the draft environmental impact report would be available for review, and the City published the draft EIR and all primary appendices on its website:

"Document Availability: Copies of project documents, the Draft Environmental Impact Report, and appendices are available at the City of Coachella Development Services, Planning Division, 53990 Enterprise Way, Coachella, CA 92236, and on the City's website https://www.coachella.org/departments/development-services/environmental-reviews. The City of Coachella is currently open Monday through Thursday between 7:00 a.m. and 6:00 p.m. and closed every Friday. Additionally, the Draft EIR and Technical Appendices will be provided to the following library for public review:

> Coachella Library, 1500 Sixth Street, Coachella, CA 92236
> Hours: Sunday: Closed. Monday: Closed. Tuesday: 10:00 am-6:00 pm.
> Wednesday: 11:00 am-7:00 pm. Thursday: 11:00 am-7:00 pm. Friday: 10:00 am-6:00 pm. Saturday: 10:00 am-6:00 pm"

On August 11, 2025, the City made a good faith effort to provide the additional reference documents requested by CARE CA in its August 6, 2025, letter. On August 21, the commenter notified the City via email that Appendices C through G of Appendix B were missing from the City's website. On August 22, the City provided those documents to the commenter and posted the documents to the City's website.

The commenter asserts that the CEQA Guidelines (14 CCR section 15087(c)) require that the "*entire* DEIR" including all reference documents must be "readily accessible" in electronic format. This is inaccurate. In fact, 14 CCR section 15087(c) states, in part, that "The notice shall disclose the following . . . (5) The address where copies of the EIR and all documents incorporated by reference in the EIR will be available for public review. This location shall be readily accessible to the public during the lead agency's normal working hours." This aligns with the requirement of PRC § 21092(b)(1), which requires that the notice shall specify the "address where copies of the draft environmental impact report or negative declaration, and all documents referenced in the draft environmental impact report or negative declaration, are available for review" and with the City's NOA, which specifies the address and normal working hours, Monday through Thursday between 7:00 a.m. and 6:00 p.m., during which the City's Development Services Division made the project documents, the draft EIR, and appendices available for public review.

The commenter provides no evidence to indicate that the documents referenced in the draft EIR were not available for public review at the City's Development Services Division as listed in the NOA. In the absence of contrary evidence, it is presumed that the technical appendices and supporting documents were available at the address provided in the NOA for the duration of the required public review period. (Evid. Code § 664; see *Gilroy Citizens for Responsible Planning v. City of Gilroy* (2006) 140 Cal.App.4th 911, 926: "Although circumstantial evidence of compliance with section 21092.5, subdivision (a), appears in the record, we also inquire

"whether the record contains evidence [the agency] failed to comply with the requirements of its ... regulatory program. In the absence of contrary evidence, we presume regular performance of official duty."" (internal citations omitted)). The City is confident that all documents referenced in the Draft EIR could have been provided to the commenter beginning on July 21, 2025, had the commenter visited the City's Development Services Division at the address and during the working hours listed in the NOA. Instead, the commenter elected to submit requests for additional information via email more than two weeks after the Draft EIR was made publicly available, and the City promptly responded to those email requests and supplied the requested information.

Furthermore, CEQA requires that notice must be given in sufficient time so that the public is able to use the full review period, and courts apply the principle that "statutory requirements for public notice are fulfilled if the public agency makes a good faith effort to follow the procedures prescribed by law" when reviewing a lead agency's compliance with the notice requirements of PRC § 21092. (*Gilroy Citizens for Responsible Planning v. City of Gilroy* (2006) 140 Cal.App.4th 911*, 922*-924). The City has fully satisfied that requirement here. In addition to fully complying with statutory notice and availability requirements, the additional efforts by the City, and its CEQA consultant, to provide requested supporting documents in electronic format and to extend the public comment submission period plainly constitute a good faith effort to enable public review.

Finally, CEQA does not require recirculation of the EIR where new information merely clarifies or amplifies or makes insignificant modifications in an adequate EIR. (PRC § 21092.1, *Laurel Heights Improvement Association v. Regents of the University of California* (1993) 6 Cal. 4th 1112.). Fulfilling the request to provide reference information for the documents requested by CARE CA in its August 6, 2025, letter amplifies the information already contained in an adequate EIR and already available at the address provided in the NOA; therefore, recirculation is not required. Furthermore, this comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

16-8 The commenter asserts that the City is in violation of the California Public Records Act and the California Constitution because the City has not provided timely access to public records related to the Project in response to a Public Records Act request submitted by the commenter on August 6, 2025. Refer to Response 16-7, above.

16-9 The commenter asserts that the DEIR does not meet CEQA's requirements because it fails to include an accurate and complete Project description, rendering the entire analysis inadequate. The commenter cites CEQA Guidelines section 15378 regarding project description definition regulations. This comment includes a generalized statement regarding the Project description and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

16-10 The commenter states that the DEIR fails to describe the Project impacts and the cumulative impacts associated with the location and construction schedule of a new water line extension

required for the Project ("[t]he proposed Project would connect to a new water line extension through the CWA's [Coachella Water Authority's] proposed 20" water line from near Avenue 54 southerly along Grapefruit Boulevard, then easterly under the existing railroad tracks and the CVSC to the Project site.") The commenter notes that the DEIR states that "CWA's new 20-inch water line extension from Grapefruit Boulevard is a separate project being undertaken by CWA with independent utility (including serving portions of the City located to the east of SR 86) and separate CEQA review," and opines that this is an indication that the City intends to proceed with piecemealed environmental review of the water line extension from the rest of the Project.

The commenter then cites related case law to support their assertion regarding the prohibition of piecemealing under CEQA and states that by failing to analyze impacts associated with construction of the water line which the DEIR acknowledges is necessary for the Project's operations, the DEIR fails to analyze the whole of the action. The commenter reiterates their assertion that the EIR must be revised and recirculated to describe and analyze these impacts.

As detailed in Section 4.19, Utilities and Service Systems, of the DEIR (pages 4.19-13 and 4.19-14), the water line extension is a separate project that would occur with or without the proposed Project. In addition, the water line project IS/MND (*Subsequent Initial Study and Mitigated Negative Declaration (IS/MND), Phase III A-2 Transmission Main, East Coachella Valley Water Supply Project, Valley View Mobile Home Park Water Consolidation Project* (State Clearinghouse No. 2019079095) (April 2022) referenced in the DEIR and utilized in its analysis of domestic water infrastructure, concluded that the water line project would not result in any environmental effects that would cause substantial adverse effects directly or indirectly. As such, no changes in regard to this comment have been made to the DEIR.

16-11 The commenter states that the DEIR's discussion of the Project's air quality, greenhouse gas emissions, and health risk impacts fails to describe the reasonably foreseeable use of back-up generators because backup generator emissions are a reasonably foreseeable consequence of the Project. Therefore, the commenter asserts that the DEIR's omission of onsite generator emissions results in an underestimation of the Project's air quality, greenhouse gas, and health risk impacts.

The Project does not include the use of cold storage; therefore, the need to permanently install emergency backup generators is not required. The SCAQMD defines an emergency backup generator as a standby ICE or turbine for non-utility power generation that does not operate more than 200 hours a year and is only operated in the event of an emergency power failure or for routine testing and maintenance is considered an emergency backup generator for power generation.[8]An emergency power failure is defined as a Stage II or Stage III electrical emergency declared by the Independent System Operator (ISO) and during actual or imminent

[8] SCAQMD. "What Is Considered an Emergency Backup Generator by the South Coast AQMD?" Emergency generators, November 3, 2023. https://www.aqmd.gov/home/permits/emergency-generators#Fact3.

blackouts. CEQA Guidelines §15269 allows for emergency projects to be exempt from the requirements of CEQA (PRC § 21083, 21080, and 21172 et. al.).

In the event that such a declared power emergency were to occur, the use of an emergency backup generator may be utilized on a temporary basis, until power is restored and only SCAQMD approved and certified stand-by generators are authorized for use. The use of any generator would be limited to the duration of any declared power outage and also would be exempt from CEQA under CEQA Guidelines §15269. As such, impacts would be less than significant.

In addition, the use of any emergency backup generator would be covered by Mitigation Measure GHG-1, which requires the Project to be designed to generate a minimum of 50% of the power onsite from renewable sources, which would include the use of solar generation and battery storage systems. In addition, the proposed warehouses are not being designed for cold storage or for 24-hour operations. As a result, the installation of back-up emergency generators are not anticipated to be required for this Project. Therefore, the commenter's assumption that diesel-powered backup generators would be installed as part of the proposed Project is not correct. As such, no changes in regard to this comment have been made to the DEIR.

16-12 The commenter opines that the DEIR fails to analyze impacts associated with cold storage. Therefore, the commenter asserts that the DEIR's assumption that the Project will include no cold storage uses results in underestimation of health risk, air quality, energy, GHG, and noise impacts, since cold storage generates more trips per square foot and has higher energy impacts due to the low temperatures required by transport refrigeration units (TRUs) and on-site storage.

Additionally, the commenter states that the developer should record a covenant on the title of the underlying property ensuring that the property cannot be used to provide refrigerated warehouse space. The commenter opines that the City should include such title restrictions for this Project unless an EIR is prepared that analyzes and mitigates impacts associated with cold storage uses and other more intensive warehousing uses.

The Project Description was developed in a manner consistent with CEQA Guidelines §15124, which includes a clear statement of the objectives sought by the proposed project and a clearly written statement of the objectives that will help the lead agency develop a reasonable range of alternatives to evaluate in the EIR. The Project Description does not include a description, details, or proposed objectives that include any references to a "cold storage" use. If more intense uses than described in the project description were to be proposed in the future, then the City would be required to evaluate the proposed changes under CEQA Guidelines §15162 and prepare a Supplemental or Subsequent EIR or Addendum to the Certified EIR, as appropriate. The commenter's assertion that the EIR is insufficient because it does not evaluate a use that is not proposed in the clearly written Project Description is inconsistent with CEQA Guidelines §15144, which does not require the City to "foresee the unforeseeable". Accordingly, the DEIR does not analyze the impacts associated with cold storage warehouse uses that have not been proposed, and the commenter's sheer speculation

about such uses does not require or warrant further analysis under CEQA. No changes in regard to this comment have been made to the DEIR.

16-13 The commenter asserts that the DEIR fails to disclose, analyze and mitigate potentially significant impacts and cites CEQA Guidelines, stating that failure to address a subject required to be covered in an EIR or to disclose information about a project's environmental effects or alternatives, are subject to a less deferential standard than challenges to an agency's factual conclusions.

This comment includes a generalized statement regarding requirements under CEQA and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. The comment is overbroad and refers to no specific environmental issues. Therefore, no response is warranted.

16-14 The commenter claims that the DEIR fails to disclose, analyze, and mitigate exposure to *Coccidiodes Immitis* (Valley Fever cocci) on the Project site, as the DEIR does not include any discussion or mitigation of this potential health risk impact. The commenter opines that the DEIR must be revised to disclose and mitigate this impact in a recirculated EIR.

Valley Fever (*coccidiodes immitis*) is a fungal infection present in the southwestern United States. People and animals can be infected with Valley Fever by breathing in the fungus from the environment. Common symptoms can include fatigue, cough, fever, headache, and muscle aches or joint pain). In a small number of cases, the infection can cause chronic pneumonia. The presence of the Valley Fever fungus can be found in the soil throughout the Coachella Valley. According to the California Department of Public Health (CDPH), the number of reported cases in Riverside County (as of 2024) was 456 and the total number of cases in Riverside County (since recording began in 2001) is 3,377. While Valley Fever can affect humans and animals, certain populations can be more susceptible to infections, such as those who work in the construction industry. The CDPH has published common prevention tips to help reduce infections, such as avoiding dust outside in places where Valley fever is common, staying inside with the windows and doors closed, and use of an N95 respirator if passive avoidance techniques are not possible. When construction is occurring outdoors, state and local regulations require that soils be wet down prior to any ground disturbing activities and staying "upwind" are the areas being disturbed. In addition, the SCAQMD prohibits grading when sustained windspeeds are in excess of 25 mph. SCAQMD also requires implementation of RULES 403 and R403.1, regulating the reduction of fugitive dust and particulate matter. Contrary to the assertion in the memo attached as Exhibit A to this comment letter, the stringent dust control measures required by SCAQMD are recognized, by the California Department of Industrial Relations, as effective in substantially reducing the risk of Valley Fever associated with construction projects in the Coachella Valley. As explained in Exhibit B2 to this Final EIR, SCAQMD provides "the most stringent dust suppressant rules in the State, which is the primary means of transmission of Valley Fever."

In addition, Exhibit B2 points out that the number of reported cases, on a year-by year basis is extremely low (approximately 10 -19 incidents per 100,000 population), as compared to the San Joaquin Valley where incidents are 75+ per 100,000. Based on the stringent SQAQMD

dust control requirements and the extremely low incident rate in the Coachella Valley, the supplemental expert air quality report confirms that "Valley Fever is not likely to be transmitted from construction activities associated with the proposed project (see Exhibit B2 to this Final EIR, at p. 7). As the potential for project impacts relating to Valley Fever is considered negligible, the DEIR does not separately analyze the impacts associated Valley Fever. No changes in regard to this comment have been made to the DEIR.

Finally, neither the comment nor the information provided in memo attached as Exhibit A, from Clark & Associates, provide any substantial evidence that the *Coccidiodes Immitis fungus* is present on the Project site in any substantial quantities or that Valley Fever cases have resulted from similar development projects within the City of Coachella. Valley Fever is not a significant risk in Riverside County and adherence to the SCAQMD's very stringent fugitive dust regulations during construction of the proposed Project would go above and beyond the Valley Fever suppression requirements in the Central Valley, where it is a potential health risk. The additional information provided in this response and the supporting expert evidence provided in Appendix B2 expands and amplifies on the Air Quality analysis set forth in the Draft EIR but does not constitute significant new information requiring recirculation of the Draft EIR because it does not prevent the public from commenting on a significant adverse environmental effect or a feasible means of mitigating such a significant effect. As such, no changes to the DEIR nor recirculation of the Draft EIR are warranted.

16-15 The commenter asserts that the DEIR applies VMT screening and significance thresholds that are unsupported by substantial evidence; specifically, that the DEIR does not present evidence that the County's significance thresholds or screening thresholds are appropriate for projects in the City of Coachella, relying on a court decision in San Diego County as evidence against the DEIR's analysis.

CEQA does not require that a Lead Agency adopt its own standards. In this case, the City applied the Riverside County standards, as have multiple cities in the region, because the City occurs in Riverside County, and conditions in the City are consistent with those in the County. Furthermore, the Project site is located along the boundary between the City of Coachella and unincorporated Riverside County, and use of the County's methodology and thresholds is reasonable. In the absence of local guidance, the Riverside County's "Transportation Analysis Guidelines for Level of Service Vehicle Miles Traveled (December 2020)" were properly applied, as they provide an appropriate and CEQA-consistent framework. The guidelines include several project screening criteria which were reviewed for the project evaluation. The project includes multiple non-residential land uses which is considered as a mixed-use project. The County guidelines recommend evaluation of each land use separately in the case of a mixed-use project (Step 1: Evaluate Land Use Type – Mixed Use, page 18). Therefore, each of the below-mentioned project uses were assessed with screening criteria:

1) 233.1 TSF (thousand square feet) large warehouse
2) 96 TSF small warehouse

3) 128.6 TSF self-storage
4) 76.8 TSF personal vehicle storage
5) 81 TSF small business / office
6) 8.65 TSF retail

While most of project uses are screened out, the large warehouse buildings cannot be screened out of a detailed VMT analysis and therefore, a full VMT analysis was conducted using RIVCOM3.51 as recommended in the guidelines. However, all of the project land uses were included in the model runs to appropriately account for internal capture between different uses of the project. Based on the VMT analysis, the project has a significant impact for VMT, as disclosed in the DEIR.
The VMT metric used—VMT per employee for non-residential, non-retail projects—is consistent with both the County guidelines and the Governor's Office of Land Use and Climate Innovation (LCI) formerly the Governor's Office of Planning and Research (OPR) T*echnical Advisory on Evaluating Transportation Impacts in CEQA*.

While the commenter references case law regarding local thresholds, such cases do not preclude reliance on established county-level or State guidance when local standards are not yet adopted. As such, no revisions to the Project's Transportation Analysis or the DEIR are warranted.

16-16 The commenter states the DEIR lacks substantial evidence for its VMT screening methodology that most of the Project's components screen out of a VMT analysis, and renders the DEIR's VMT analysis unsupported. Specifically, the commenter states that the VMT analysis in the DEIR improperly screens out, and fails to analyze, the other Project components besides the 233,000 square foot warehouse (which does not screen out of a VMT analysis), which include Small Warehouses, Small Business, Personal Vehicle Storage, Self-Storage, and Retail. The total industrial square footage proposed by the Project is 624,500 square feet, so failure to analyze VMT from these other uses results in a failure to meaningfully analyze the bulk of the Project. The commenter further adds that the DEIR's rationale for screening out the other non-retail uses is that "[t]he [Riverside] County Guidelines recommend evaluation of each land use separately in case of a mixed-use project," however, the commenter opines that the DEIR misapplies this guidance and the Project does not likely constitute a mixed-use project. Further, even if the term "mixed-use" applied broadly to projects with a mix of non-residential uses, the Project's mix of industrial buildings would not be considered diverse enough to be considered different uses. Specifically, the County guidelines recommend that analysis of mixed-use projects be done by applying either the EPA's MXD Model or the Institute of Traffic Engineers ("ITE") mixed-use trip generation methodology. The commenter explains that neither of these tools split land use down to the level done in the DEIR when doing VMT screening.

As described in Section 4.17, Transportation, pages 4.17-30 through 4.17-33 of the DEIR, and in Attachment I2 of this FEIR, although the VMT metric was reported for the warehouse component that did not screen out of VMT analysis, it should be noted that the modeling

included the entire Project to ensure all Project land uses were represented, as described in Response 16-15. Therefore, no portion of the Project was excluded from the modeling effort, and the commenter's assertion is incorrect.

As it relates to the assertion that the project is not a mixed use project, under the *Riverside County Transportation Analysis Guidelines for Level of Service Vehicle Miles Traveled (December 2020, Page 10)*, a mixed-use project is defined as one containing more than one land use type, which applies to this Project since it includes industrial, commercial and retail land uses The reference to the EPA MXD Model and ITE mixed-use trip generation methodologies pertains to the traffic/LOS analysis, not the VMT analysis. The County's regional travel demand model (RIVCOM 3.51) appropriately accounts for trip generation and internal capture among the Project's uses for estimating Project VMT. As such, no revisions to the DEIR are warranted.

16-17 The commenter opines that the DEIR finds that Project-related and cumulative VMT impacts would be significant and unavoidable, and includes a vanpooling measure in Mitigation Measure GHG-1, which would reduce impacts by 3.55%, relying on a calculation in California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. The commenter states that this measure should not apply and that the reduction claimed in the DEIR is thus not supported by substantial evidence.

Per the CAPCOA Handbook, the proposed Mitigation Measure GHG-1 is consistent with Measure T-11, which states, "This measure will implement an employer-sponsored vanpool service. Vanpooling is a flexible form of public transportation that provides groups of 5 to 15 people with a cost-effective and convenient rideshare option for commuting. The mode shift from long-distance, single-occupied vehicles to shared vehicles reduces overall commute VMT, thereby reducing GHG emissions." The items noted by the commenter are not requirements for Measure T-11.

In addition, as discussed in Attachment B2 of this FEIR, the commenter is not correct in stating that the DEIR calculates that this measure would reduce impacts by 3.55%. Although the Mitigation Measure of a Commute Trip Reduction Program was selected in the CalEEMod model run, the operational emissions shown in Section 4.8, Greenhouse Gas Emissions, of the DEIR, Table 4.8-3 on page 4.8-12, shows the unmitigated emissions levels. Moreover, this table is provided for informational purposes only, as the amounts are not utilized to determine if the project would create a significant impact. However, in the consistency analysis with the CAP Development Review Checklist, it was determined that the Transportation Demand Management Program included in Mitigation Measure GHG-1 would reduce GHG emissions by 1.6%, which is less than half of what CAPCOA calculated for implementation of this measure. In addition, the City's CAP found that a Citywide Transportation Demand Management Program would reduce emissions by 5% and provided substantial evidence to support that conclusion (DEIR page 4.8-13). Therefore, the use of a 1.6% reduction in emissions from implementation of the TDM provides for a conservative analysis supported by substantial evidence. As such, no changes to the DEIR are warranted.

16-18 The commenter opines that the DEIR's air quality analysis overestimates VMT mitigation; specifically, the air quality analysis assumes a 5% VMT reduction from "Measure T-6, Implement Commute Trip Reduction Program (Mandatory)," but this reduction is not supported by substantial evidence. The commenter also notes that the DEIR's transportation study calculates that the vanpool measure would only reduce VMT by 3.55%, and thus, the air quality study overestimates emissions reductions from the measure and results in higher levels of unmitigated emissions than disclosed in the DEIR. As such, the commenter reiterates their assertion that the EIR must be revised and recirculated.

The comment misstates the conclusions of the Air Quality Analysis. As shown on page 66 of the Air Quality analysis included at Appendix B to the DEIR, operational air quality emissions will be substantially below the established SQAQMD thresholds for all criteria pollutants. It appears that the comment is based on a footnote regarding the settings for the CalEEMod modeling, which references transportation measure T-6 regarding implementation of a commute reduction program. However, neither the comment nor the attached memo from Smart Mobility (Exhibit B) provide any substantial evidence or other explanation as to how that CalEEMod setting or assumption could conceivably affect the significance of operational air quality emissions as detailed on Table Y of the Air Quality report, particularly in light of how far below the established thresholds the Project's operational emissions would be. Furthermore, as detailed above in Response 16-17, the 1.6% reduction in GHG emissions that the DEIR takes credit for with implementation of Mitigation Measure GHG-1 provides for a conservative analysis supported by substantial evidence. As such, no changes to the DEIR are warranted.

16-19 The commenter states that the DEIR underestimates the distances of the truck trips associated with the Project's warehouse uses, which consequently underestimates the Project's emissions of criteria air pollutants and GHGs. The commenter asserts that the Ports of Los Angeles and Long Beach should be used to calculate average truck trips which is approximately 150 miles. Consequently, the commenter opines that because truck trips to and from the Ports are reasonably foreseeable and unanalyzed in the DEIR, the DEIR underestimates transportation, air quality, and GHG impacts.

See Response 5-9, explaining why this assumption is inappropriate for the proposed Project.

No changes to the DEIR are warranted.

16-20 The commenter asserts that the DEIR fails to adequately analyze operational health risk impacts associated with the location of the Project's proposed fuel center, at the southern border of the Project site at Airport Boulevard, with specific concern for the mobile home community across the street from the site. The commenter adds that the Project's health risks would cumulatively considerable under draft SCAQMD numeric thresholds, which lower the significance threshold to 1 in one million; and that the siting of the fuel center violates General Plan Policy 11.3 .

As discussed in Section 4.3, Air Quality, of the DEIR and in Attachment B2 of this FEIR, General Plan Policy 11.3 prohibits the siting of land uses that adversely impact existing sensitive

receptors, including schools, childcare centers, senior housing, and subsidized affordable housing. The existing mobile home park is not one of listed sensitive receptors in General Plan Policy 11.3. In addition, the DEIR found that the operation of the proposed Project, including the gas station would not create a significant cancer risk to the residents of the mobile home park (DEIR pages 4.3-26 through 4.3-29). Therefore, the proposed gas station is not a land use that would adversely impact sensitive receptors. The commenter also provides hypothetical thresholds that have not been adopted by the City or SCAQMD. The SCAQMD Working Group threshold changes the commenter cites are being discussed as new regulations for large warehouses that are over 100,000 square feet, which would not apply to the proposed Project. The DEIR shows that the cancer risk is within the SCAQMD adopted thresholds (DEIR pages 4.3-26 through 4.3-29) and the City relies on the SCAQMD's expertise for developing these thresholds. As such, no changes to the DEIR are warranted.

The commenter refers to General Plan Policy 11.3 as lowering the significance threshold to 1 in one million; however, General Plan Policy 11.3 does not stipulate any quantitative metrics related to the evaluation of cancer risk. The proposed fueling station does not exceed the SCAQMD thresholds. This shall be used as the defining criteria for determining significance. As such no additional mitigation is required and not substantial changes to the DEIR are warranted.

16-21 The commenter notes that the DEIR includes analysis of the mobile home community's health risks from exposure to the Project's operations; however, upon review of the DEIR's AERMOD model, the commenter found that impacts were underestimated because the model only includes emissions from trucks traveling onsite and on Airport Boulevard when in reality, trucks would also be driving past the mobile home community on SR-86. The commenter asserts that this underestimates the community's exposure to DPM generated by trucks and that the DEIR's analysis must be revised to fully disclose and mitigate these health risk impacts.

As discussed in Section 4.3, Air Quality, of the DEIR and in Attachment B2 of this FEIR, the HRA was prepared based on guidance provided by SCAQMD that recommends that HRAs analyze truck travel up to a quarter mile from the project site or to the onramps of the nearest freeway, whichever is nearer, which is based on the assumption that trucks are very efficient and produce very little emissions when traveling at constant speeds on freeways. The mobile home park is approximately 60 feet to the south of the Project site. Furthermore, the cancer risk created by the proposed Project at the mobile home park was calculated to be as high as 3.0 per million person, which is well below the 10 per million person threshold. The commenter did not provide any evidence that extension of a road source that is located over 600 feet from the most impacted residents would more than triple the cancer risk levels that would be required to change the significance levels shown in the DEIR. As such, no changes to the DEIR are warranted.

16-22 The commenter makes a general statement that the DEIR fails to describe the Project's cumulative impacts. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Refer to the commenter's specific concerns regarding cumulative impacts in Responses 16-23 and 16-24, below.

16-23 The commenter asserts that the Draft EIR is inadequate because it fails to analyze the Project's cumulative air quality effects with existing and proposed development near the Project site. Specifically, the commenter calculates that existing projects within 5 kilometers (km) of the Project site generate 4,000 daily truck trips, producing 5.5 lbs. of diesel particulate matter (DPM) per day and 623 lbs. of oxides of nitrogen (NOx) per day. The commenter also asserts that SCAQMD unadopted thresholds and Attorney General Warehouse Guidance should be used to determine cumulative impacts, including cancer risk. The commenter asserts that this analysis may result in significant cumulative air quality and health risks which are unanalyzed in the DEIR.

Regarding acceptable methodologies for an adequate discussion of significant cumulative impacts, CEQA specifies two approaches: the "List" approach (14 CCR § 15130(b)(1)(A)) or the "Plan" approach (14 CCR § 15130(b)(1)(A)). The Draft EIR utilizes the latter, referencing existing 2003 SCAQMD cumulative analysis guidance, a policy document that SCAQMD adopted to enable compliance with the South Coast Air Quality Management Plan. According to this guidance, individual projects under SCAQMD's jurisdiction would cause a cumulatively considerable increase in emissions for which the South Coast Air Basin (SCAB) is in non-attainment if the project exceeds SCAQMD's recommended thresholds. As shown in Draft EIR section 4.3, Air Quality, and section 10.3 of Appendix B of the Draft EIR, *Air Quality, Energy, Greenhouse Gas Emissions and Health Risk Assessment Impact Analysis*, with implementation of Mitigation Measure GHG-1, the proposed Project would conform to local land use plans, comply with all applicable SCAQMD rules and regulations, and would not exceed the applicable regional thresholds for air pollutant emissions. As such, the Project is consistent with the applicable air quality plans in the Project area, and the Project would result in a less than significant cumulative air quality impact. While the SCAQMD is in the process of reviewing and updating cumulative thresholds, there are no current alternative numeric or qualitative cumulative thresholds adopted for use within the SCAQMD's jurisdictional area. The commenter cites *Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692 ("*Kings County*") to argue that the Draft EIR's cumulative air quality impact analysis fails to comply with CEQA. However, the cumulative impacts analysis in *Kings County* did not rely on the Plan approach. Instead, the Court held that the City's EIR was deficient in accordance with the List approach because the record did not provide information regarding similar energy developments in the San Joaquin Valley air basin. (*Kings County* at 724).

Regarding cancer risk, as discussed in Table BB in Attachment B2 of this FEIR, the cancer risk levels drop off from 1.5 per million at Receptors 2 and 3, which represent homes located 60 feet south of the Project site to 0.2 per million at Receptor 11, which represents a home 1,900 feet from the Project site. This shows that DPM emissions disperse rapidly and cumulative projects would need to be within approximately 2,000 feet of the Project site to provide any quantifiable increase to cancer risk rates. Furthermore, the Attorney General's guidance and the examples provided by the commenter are from very large warehouse projects. The largest warehouse in the proposed Project is 48,800 square feet, which would be considered a small warehouse in Southern California. The threshold changes the commenter cites are being discussed as new regulations for large warehouses that are over 100,000 square feet, which would not apply to the proposed Project. As such, no changes to the DEIR are warranted.

16-24 The commenter restates that the Project's health risk impacts would exceed SCAQMD's draft cumulative impacts significant thresholds. The commenter explains that, although the new protocols have not been formally adopted, SCAQMD comments on similar industrial projects recommend that the draft protocols be applied and that this demonstrates that the new thresholds are supported by substantial evidence, unlike the outdated 2003 guidance. The commenter describes draft SCAQMD protocols including a flowchart lowering the cancer risk significance threshold (from 10 in one million) if certain factors reflecting high pollution burden are met. The commenter asserts that this constitutes substantial evidence of a significant impact requiring disclosure and mitigation in a recirculated EIR.

The commenters assertion that application of SCAQMD's draft cumulative impact significant thresholds constitute substantial evidence that was not disclosed in the DEIR is incorrect. CEQA §15064(f)(5) states that, "Argument, speculation or unsubstantiated opinion…shall not constitute substantial evidence." As the draft *Cumulative Impacts from Air Toxics for CEQA Projects* have yet to be adopted, they are considered speculative at this time. Nevertheless, according to Table BB, of Appendix B to the DEIR, the cancer risk, per 10 million population, is 9.7 percent, which is less than the draft guidelines.

Moreover, as confirmed in the expert supplemental technical report attached as Appendix B2 to this Final EIR and detailed above in Response 16-23, the draft SCAQMD protocols are for warehouses that are over 100,000 square feet, which would not apply to the proposed Project. Therefore, the working group thresholds that have not yet been adopted by the SCAQMD are not applicable to the proposed Project. As such, no changes to the DEIR are warranted.

16-25 The commenter states that the DEIR's construction noise significance threshold is unsupported by substantial evidence, stating that the DEIR provides that daytime construction noise under 80 dBA and nighttime construction noise under 70 dBA would be less than significant, which are thresholds from the Federal Transit Administration's (FTA) Transit Noise And Vibration Impact Assessment Manual. However, the commenter notes that the DEIR violates CEQA by failing to also identify a significance threshold for the increase in noise over ambient levels.

In addition, the commenter cites information and anticipated community reactions contained in the FTA Transit Noise and Vibration Impact Assessment Manual that relates to long-term noise exposure over a 24-hour period, based on an average-daily noise level. This information does not pertain to short-term noise exposure, such as the on average-hourly noise thresholds recommended by the FTA for the analysis of construction activities. With regard to the assessment of short-term construction-related noise impacts, the FTA guidelines present recommended noise thresholds, taking into account the noise-sensitivity of the land use and ambient noise conditions. For residential land uses, the guidelines recommend thresholds of 80 dBA Leq for the daytime hours and 70 dBA Leq for the nighttime hours. With regard to these recommended short-term average-hourly construction noise thresholds noted in the guidelines, the guidelines state that "If these criteria are exceeded, there may be adverse community reaction."

The Californians Allied for a Responsible Economy's comment letter was reviewed, and responses were provided by AMBIENT Air Quality and Noise Consulting in the *Noise Responses to Comments Technical Memorandum* dated October 21, 2025, provided as Appendix H2. It should be noted that this attachment does not constitute significant new information requiring recirculation of the DEIR pursuant to CEQA Guidelines Section 15088.5. Rather, it serves only to clarify or amplify information already presented in the DEIR and/or the respective technical studies. As discussed in the Attachment H2 of this FEIR and as noted in Section 4.13, Noise, of the DEIR, the nearest noise-sensitive receptors are residential land uses located approximately 60 feet south of the Project site. The analysis noted that predicted daytime and nighttime construction noise levels would exceed corresponding daytime and nighttime noise thresholds of 80 dBA Leq for the daytime hours and 70 dBA Leq. As noted in the DEIR, increases in ambient noise levels during the more noise-sensitive evening and nighttime hours would be of particular concern with regard to residential land uses due to the potential for increased levels of annoyance and sleep disruption.

With regard to daytime exposure to short-term construction noise, the nearest residential land uses are currently exposed to traffic noise emanating from the adjacent Airport Boulevard and nearby SR-86. As noted in Section 4.13, Noise, of the DEIR, ambient daytime noise levels in the vicinity of these nearest residential land uses measured approximately 68 dBA Leq with maximum instantaneous noise levels of approximately 79 dBA Lmax primarily associated with vehicle traffic on Airport Boulevard. Generally speaking, residential land uses are often exposed to increases in daytime ambient noise levels from a variety of sources, such as vehicle traffic on area roadways, landscape maintenance activities, waste-collection activities, and outdoor recreation activities. These sources can result in significant increases in daytime ambient noise levels. For instance, the use of landscape maintenance equipment, such as leaf blowers, can generate noise levels in excess of 90 dBA. With mitigation, predicted construction noise levels at the nearest residential land uses would be approximately 79 dBA Leq, or less. Predicted construction noise levels during the less noise-sensitive daytime hours would not be uncharacteristic of other existing short-term noise events (e.g., landscape maintenance activities, vehicle traffic on area roadways, waste collection activities, etc.) commonly associated with residential land uses. It is also important to note that the construction noise levels noted in the DEIR were conservatively calculated assuming that five pieces of heavy-duty offroad equipment would be located within 60 feet of the nearest residential property line. Given that transient and temporal nature of construction activities, it is highly unlikely that five pieces of heavy-duty off-road construction equipment would be operating simultaneously within 60 feet of these nearest residential land uses. As a result, actual construction-generated noise levels would likely be substantially lower, and in any event, were determined to be reduced to below the threshold of significance with implementation of Mitigation Measure NOI-1 and compliance with the City's Municipal Code restrictions on construction hours (See DEIR, at page 4.13-19).

As identified on page 4.13-15, of the DEIR, no standardized criteria have been developed by the State of California, County of Riverside, or City of Coachella, for assessing construction noise impacts. However, as discussed in the Regulatory Framework subsection above, the FTA has identified criteria for the assessment of construction-generated noise levels. For noise-

sensitive land uses, the FTA's recommended detailed analysis of construction noise identifies daytime and nighttime noise standards of 80 dBA Leq and 70 dBA, respectively. To evaluate whether the Project will generate potentially significant short-term noise levels at nearby receiver locations, a construction-related noise level threshold of 70 dBA Leq is used as an acceptable threshold to assess construction noise level impacts. This threshold is determined not by the existing ambient noise level, measured at the nearest existing residences, which are located approximately 60 feet south of the Project site, but rather by the recommended daytime and nighttime noise standards of 80 dBA Leq and 70 dBA, respectively. As discussed above, with implementation of Mitigation Measure NOI-1, and compliance with the City's Municipal Code restrictions on construction hours, these established thresholds of significance would not be exceeded. With respect to increases in ambient noise levels, as noted above, existing ambient noise levels measured approximately 68 dBA Leq with maximum instantaneous noise levels of approximately 79 dBA Lmax primarily associated with vehicle traffic on Airport Boulevard, meaning that the Project construction levels would not be meaningfully higher than existing ambient noise levels (even though this is not the applicable threshold of significance for construction noise). Therefore, as construction noise would not exceed the established significance thresholds or substantially increase existing noise levels, an adverse community reaction among nearby residents would not be anticipated to occur. No changes to the DEIR are warranted.

16-26 The commenter notes that the DEIR estimates that the Project's construction would result in construction noise levels of 86 to 89 dBA at the nearest residences and disagrees with the existing construction noise impact analysis in the DEIR, stating that these noise impacts would be significant because they would result in noticeable increases over ambient levels. The commenter also notes that FTA guidance predicts that the community response to a 30 dBA noise increase would constitute a significant noise increase, even if mitigation reduces it to just below an 80 dBA threshold.

Refer to Response 16-25, above. As discussed therein, the project's potential construction related noise impacts on the nearest residences was fully analyzed in the DEIR and would not have a significant effect even under the conservative assumptions used in the noise analysis.. Further, as explained in the Draft EIR at pages 4.13-19 through 4.13-23, the Project would not have any significant long-term operational noise impacts or substantial increases in ambient noise levels.

16-27 The commenter opines that the noise reductions claimed by Mitigation Measure NOI-1 in the DEIR are not supported by substantial evidence and that this measure would not fully mitigate construction noise impacts.

As discussed in Attachment H2 of this FEIR and as noted in Section 4.13, Noise, of the DEIR, construction noise levels were conservatively calculated using the FHWA's RCNM based on equipment reference noise levels identified in FHWA's RCNM. These reference noise levels are based on measured data from railroad construction equipment taken during the 1976 Northeast Corridor Improvement Project derived from U.S. EPA report "Noise from Construction Equipment and Operations, Building Equipment and Home Appliances" (NTID300.1, 31 December 1971), and measurements conducted in the early 1990's for the

Central Artery/Tunnel (CA/T) project in Boston, Massachusetts. Although this data is the most current and comprehensive data currently available for off-road construction equipment noise levels, the representative equipment noise levels contained in the FHWA's RCNM are now more than 20 years old and do not specifically account for the use of newer construction equipment fitted with mufflers. As noted by Mitigation Measure NOI-1, of the DEIR, the use exhaust mufflers, and engine shrouds, that reduce equipment noise levels by approximately 10 dBA, shall be required. The commenter states that "mufflers have since become standard on modern construction equipment." However, the commenter does not reference any specific type of standard muffler equipment. In addition, MM NOI-1 states that mufflers are to be used in conjunction with engine shrouds, in order to achieve a noise reduction of 10 dBA. The commenter fails to identify this combination, which has been developed as specific mitigation for the Project. With mitigation, predicted construction noise levels would not exceed the daytime noise threshold of 80 dBA Leq. As such, no revisions to the Project's Noise Analysis or the DEIR are warranted. In addition, refer to Response 16-25, above.

The comment requests that MM-NOI-1 be revised to include reference to the "southern" boundary; however, this reference is already included on page 20, of Appendix H, of the DEIR. As such, no revisions to the Project's Noise Analysis or the DEIR are warranted.

16-28 The commenter asserts that the DEIR underestimates the Project's operational noise impacts, which would exceed the 55/45 dBA thresholds (the DEIR finds that daytime operational noise impacts at the nearest residential receptor would be 54 dBA and nighttime impacts would be 44 dBA). Specifically, the commenter explains that the DEIR appears to underestimate noise from warehouse mechanical equipment. The commenter asserts that mechanical equipment noise would be louder than assumed in the DEIR and that the most common large air conditioning units of 25 tons, have a sound power level of 85-95 dBA, which would be equivalent to a sound pressure level of 78-88 dBA at 3 feet.

As discussed in Section 4.13, Noise, of the DEIR, and in Attachment H2 of this FEIR, to be conservative, the analysis of on-site operational noise levels included the simultaneous operation of all air conditioning (AC) units anticipated to be located on the Project site. A total of 92 AC units were included, which were assigned to onsite structures based on the estimated area of conditioned floor area. Modeled AC unit locations and SoundPlan modeling assumptions are included in Appendix A of the Project's Noise Impact Analysis (Appendix H1 of the DEIR). Modeling was conducted based on an AC unit sound power level of 77 dB LwA. This level is equivalent to an AC unit roughly 6 tons in size. Based on a commonly-applied average of 1,000 square feet per ton of cooling capacity, taking into account current building code requirements for energy efficiency, each AC unit would cool an estimated temperature-controlled floor area of roughly 6,000 square feet. Based on this square-footage cooling area, the modeled AC unit noise levels would be representative of those anticipated to be required for this Project.

In addition, the 25-ton AC units noted by the commenter are more representative of what might be installed for large open-floor commercial retail buildings or refrigerated warehouses. None of the warehouses proposed for the Project are being designed as refrigerated warehouses and no large open-floor commercial retail buildings are proposed as part of the

Project, since the largest warehouse buildings are planned for 22,400 sq. ft. to 48,800 sq. ft. is approximately 233,100 square feet (see Draft EIR Table 2.1, on p. 2.0-4). It is also important to note that AC units typically operate in a cyclic manner and do not operate continuously over a one-hour period. However, to ensure a conservative analysis, all AC units on the Project site were assumed to operate simultaneously over a one-hour period. As a result, actual average-hourly noise levels would likely be lower than estimated. Further, as noted in the DEIR (Tables 4.13-1 and 4.13-2, pages 4.13-3 through 4.13.4), ambient noise levels at the nearest residential land uses located south of the Project site, across Airport Boulevard, are predominantly influenced by vehicle traffic on area roadways. Based on the noise measurements conducted, ambient average-hourly noise levels at the nearest residential land uses range from a nighttime low of 59 dBA Leq to a daytime high of 68 dBA Leq. In comparison to ambient noise conditions, operational noise levels attributable to the proposed Project at these nearest residences would be approximately 44 dBA Leq during the nighttime hours and 54 dBA Leq during the daytime hours, more than 10-dB lower than ambient noise levels. Predicted operational noise levels would be substantially lower than ambient nighttime and daytime noise levels at the nearest residential land uses. As a result, operational on-site noise levels would not result in a substantial increase in ambient noise levels and would be largely masked by existing traffic noise levels.

It is also important to note that the analysis of on-site noise levels was conservatively conducted in comparison to the noise ordinance standards for Riverside County, within which the nearest residential land uses are located. In accordance with the County's noise ordinance, the operation of air conditioning units are considered exempt from these noise standards. As such, no changes to the DEIR are warranted.

16-29 The commenter states that the DEIR fails to adequately analyze noise from nighttime operations. The commenter opines that the assumption that no operations would occur in the industrial park after 9:00 PM is unsupported by substantial evidence because the assumed hours of operation are not binding on future tenants.

Regarding hours of operation, see Response 16-25 above. As discussed in the Noise Responses to Comments Technical Memorandum (provided as Attachment H2 of this FEIR), modeling was conducted based on the anticipated operational hours for the Project. Predicted operational noise levels would not exceed applicable noise standards. In addition, as noted in Response 16-28 above, predicted operational noise levels would be more than 10-dB lower than ambient noise levels at the nearest residential land uses and would be largely masked by existing ambient noise levels.

CEQA does not require a detailed and technical response to comments that are based on speculation: an "EIR is not required to address all of the variations of the issues presented. An analysis of every permutation of the data is not required."" (*Tiburon Open Space Committee v. County of Marin* (2022) 78 Cal.App.5th 700, 726 (internal citations omitted)). Additionally, CEQA does not require the implementation of additional mitigation measures for impacts that have been reduced to a level that is less than significant. (PRC § 21081). Here, the Draft EIR adequately analyzes potential environmental impacts related to noise in section 4.13 and in Attachment H2, and impacts associated with noise have already been reduced to a level that

is less than significant with mitigation incorporated. (DEIR p. ES-18). As such, no changes to the DEIR are warranted.

16-30 The commenter asserts that the Project may generate nighttime truck trips that would result in potentially significant sleep disturbance impacts but that such impacts are not fully evaluated in the DEIR.

As discussed in Section 4.13, Noise, of the DEIR and in the Noise Responses to Comments Technical Memorandum (provided as Attachment H2 of this FEIR) and as previously noted, the nearest residential land uses are located south of the Project site, adjacent to Airport Boulevard and west of SR-86. As a result, ambient noise levels at these nearest residential land uses are largely influenced by vehicle traffic noise on Airport Boulevard and nearby SR-86, which include existing pass-by events associated with truck traffic on these roadways. Implementation of the proposed Project would not result in a substantial increase in the number of heavy-duty truck volumes along Airport Boulevard or SR-86. As a result, the Project would not result in significant increases in traffic noise levels or the number of traffic-related noise events at the nearest residential land uses. In comparison to ambient noise levels measured at the nearest residential land uses, noise levels from on-site noise sources, including on-site truck travel, would be largely masked by existing traffic noise emanating from adjacent Airport Boulevard and the nearby SR-86. In addition, the Project is not anticipated to include nighttime operations associated with proposed onsite warehouses that would generate heavy-duty truck traffic (also see Response 16-25 above).

In addition, on-road heavy-duty trucks traveling on the Project site would be estimated to average approximately 25 mph, or less. At these low speeds, noise generated by on-site truck travel would be associated with the operation of the truck's engine and vehicle exhaust. These sources are not considered instantaneous noise sources and, therefore, are more appropriately evaluated based on an average-daily or average-hourly noise metric, consistent with methodologies currently recommended by Federal and State agencies (i.e., Federal Highway Administration, California Department of Transportation) for the analysis of on-road traffic noise, as was done for the Project (DEIR Section 4.13, Noise, .4.13-22 and Appendix H). For reference, instantaneous noise events refer to sharp, sudden noise events of short duration, typically occurring over a period of seconds and at levels substantially higher than ambient noise levels. Examples of instantaneous noise events commonly associated with transportation noise sources typically include aircraft overflights and the sounding of train horns. Furthermore, it is noted that the commenter does not provide a basis for the reference noise level used for the calculation of Lmax noise levels associated with a single truck. Based on the information presented in the comment, it appears that the calculation is based on noise levels derived from the FHWA's Road Construction Noise Model (RCNM) for off-road construction haul trucks. As noted in Response 16-27 above, the reference noise level data contained in the RCNM is more than 20 years old, does not specifically account for the use of modern mufflers (as is required for on-road vehicles); and, as a result, would not be representative of noise levels associated with the operation of modern on-road trucks. As such, no revisions to the Project's Noise Analysis or the DEIR are warranted.

16-31 The commenter concludes by reiterating their assertion that the Project's DEIR is inadequate under CEQA and should be revised to provide legally adequate analysis of, and mitigation for, all of the Project's potentially significant impacts, and be recirculated for additional public review. As described in Responses 16-1 through 16-30, the DEIR adequately and thoroughly analyzed the project's impacts, and disclosed and mitigated those impacts to the greatest extent possible. Where impacts remain significant, those are also disclosed. Refer to the individual responses above for specific information pertaining to each of the commenter's comments.

Comment Letter 17 (page 1 of 3)

Comment Letter No. 17

ADAMS BROADWELL JOSEPH & CARDOZO
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW

601 GATEWAY BOULEVARD, SUITE 1000
SOUTH SAN FRANCISCO, CA 94080-7037
TEL: (650) 589-1660
FAX: (650) 589-5062
amarshall@adamsbroadwell.com

SACRAMENTO OFFICE
520 CAPITOL MALL, SUITE 350
SACRAMENTO, CA 95814-4721
TEL: (916) 444-6201
FAX: (916) 444-6209

KEVIN T. CARMICHAEL
CHRISTINA M. CARO
THOMAS A. ENSLOW
KELILAH D. FEDERMAN
RICHARD M. FRANCO
ANDREW J. GRAF
TANYA A. GULESSERIAN
DARIONN. JOHNSTON
RACHAEL E. KOSS
AIDAN P. MARSHALL
ALAURA R. McGUIRE
ISABEL TAHIR

Of Counsel
DANIEL L. CARDOZO
MARC D. JOSEPH

August21, 2025

VIA EMAIL AND U.S. MAIL
Gabriel Perez, Development Services Director
City of Coachella
53990 Enterprise Way
Coachella, CA 92236
Email: gperez@coachella.org

VIA EMAIL ONLY
Kendra Reif, PrincipalPlanner
Email: kreif@coachella.org

Re: RequesttoExtendthePublic Review and Comment Period for theDraftEnvironmental Impact Report– Coachella Airport BusinessParkProject(SCH No. 2023040106)

Dear Mr. PerezandMs.Reif:

On behalfofCaliforniansAllied for a Responsible Economy ("CARE CA"), we respectfully requestthattheCityofCoachella ("City") extend the public review and comment periodforDraftEnvironmental Impact Report ("DEIR") prepared for the Coachella AirportBusinessParkProject (SCH No. 2023040106) ("Project") by an additional 45 daysduetotheCity'sfailure to provide timely access to documents referenced, relieduponandincorporated by reference in the DEIR. The current public commentperiodendsonSeptember 3, 2025. 17-1

CEQA requiresthat"alldocuments referenced" – and the CEQA Guidelines require that "alldocumentsincorporated by reference" – in an environmental document be "readilyaccessibletothe public during the lead agency's normal working hours"duringtheentirepublic comment period.[1]

On August6,2025,CARECAsubmitted a letter to the City ("DEIR References Request"),pursuanttoCEQA section 21092(b)(1) and CEQA Guidelines 17-2

[1] Pub. Resources Code§21092(b)(1);14C.C.R. § 15072(g)(4); see *Ultramar v. South Coast Air Quality Man. Dist.* (1993) 17 Cal.App.4th 689, 699.

7982-004acp

printed on recycled paper

Comment Letter 17 (page 2 of 3)

section 15087(c)(5),requesting"immediateaccesstoanyandalldocuments referenced, incorporatedbyreference,andreliedupon"intheDEIR.2OnAugust12, 2025, the City sentaletterstatingthatrecordswouldbeprovidedbySeptember4, 2025.3 This responsefailstomeetCEQA'srequirementthatallreferencedocuments be made availableduringthecommentperiod.4

17-2 Cont.

Moreover, asofthe date ofthisletter, we have identifiedseveralcritical DEIR referencedocumentsthatarenecessaryformeaningfulreviewoftheDEIR which have notbeenmadeavailabletothepublic,including:

- AppendicesoftheAirQuality,Energy,GreenhouseGasEmissionsand Health RiskAssessmentImpactAnalysis(AppendixBoftheDEIR)
  - o AppendixC:GasStationCancerRiskTool(V1.103)Printouts
  - o AppendixD:AERMODModelYears2024–2026ConstructionDPM Printouts
  - o AppendixE:AERMODModelYear2027ConstructionDPMPrintouts
  - o AppendixF:AERMODModelYears2028–2041OperationalDPM Printouts
  - o AppendixF:AERMODModelYears2042–2054OperationalDPM Printouts
- Documents listedintheReferencessectionsofAppendicesB,C,D,E1,E2, E3, F1, G2, andG3whicharenotattachedormadeavailableviaweblink.
- Appendix H (NoiseImpactAnalysis)cites"AltumGroup.(Email correspondence, November 2024)" as a reference, but the correspondence is not available.

17-3

Courts haveheldthatthefailuretoprovideevenafewpagesofCEQA documents for a portionofthereviewperiodinvalidatestheentireprocess,andthat such a failure mustberemediedbypermittingadditionalpubliccomment.5Itisalso well settled that aCEQAdocumentmaynotrelyonhiddenstudiesordocuments that are not providedtothepublic.6Withoutaccesstothesecriticaldeirreference documents duringtheCEQApubliccommentperiod,CARECAandothermembers

[2] Letter from Adams, Broadwell, Joseph & Cardozo("ABJC") to City re:RequestforImmediate Access to Documents Referenced in the Draft Environmental Impact Report- Coachella Airport Business Park Project (SCH No. 2023040106) (August 6, 2025).
[3] Letter from City to ABJC re: City of Coachella - Public Records Act Requests (3) Received August 6, 2025 - Determination Letter (August 12, 2025).
[4] Pub. Resources Code § 21092(b)(1); 14 C.C.R. § 15087(c)(5).
[5] *Ultramar v. South Coast Air Quality Man. Dist.* (1993) 17 Cal.App.4th 689, 699.
[6] *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831 ("Whatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.").

Comment Letter 17 (page 3 of 3)

of the public are precluded from having the meaningful opportunity to comment on the DEIR that is required by CEQA. In particular, public review of the City's analysis of the Project's air emissions and health risk are substantially impaired without access to the HRA's supporting calculations, including the AERMOD files and risk calculation spreadsheets. Review of other analyses in the DEIR are similarly impaired without access to reference documents. 17-3 Cont.

Accordingly, we request that the City extend the public review and comment period on the DEIR for at least 45 days from the date on which the City releases these documents for public review.

Given the shortness of time before the current comment deadline, please contact me as soon as possible with your response to this request, but **no later than Monday, August 25, 2025.** 17-4

Please feel free to email me at amarshall@adamsbroadwell.com with any questions. Thank you for your prompt attention and response.

Sincerely,

Aidan P. Marshall

APM:acp

7982-004acp

Response to Comment Letter 17

Aidan P. Marshall
Californians Allied for a Responsible Economy via Adams Broadwell Joseph & Cardozo, Attorneys at Law
August 21, 2025

17-1
The commenter requests the public review comment period for the DEIR be extended by an additional 45 days. The Commenter states that the City did not provide timely access to documents referenced, relied upon and incorporated into the EIR.

This comment was previously addressed. Refer to response 9-1.

17-2
This comment asserts that the City did not meet the requirements of CEQA section 15087(c)(5) and refers to email communications by the City stating that documents requested in the commenter's letter dated August 6, 2025, would be available by September 4, 2025.

The City provided the requested reference documents to the commenter on August 11, 2025, even though such efforts are not required under CEQA. (Refer to response 9-1). The City allowed comments to be submitted until September 11, 2025, which was only an extension for filing comments, and not an extension of the legally required public review period. As described in Response 9-1, CEQA requires that notice must be given in sufficient time so that the public is able to use the full review period, courts apply the principle that "statutory requirements for public notice are fulfilled if the public agency makes a good faith effort to follow the procedures prescribed by law" when reviewing a lead agency's compliance with the notice requirements of PRC § 21092. (*Gilroy Citizens for Responsible Planning v. City of Gilroy (2006) 140 Cal.App.4th 911, 922*-924). The City has fully satisfied that requirement here. Moreover, the commenter elected to wait more than two weeks after the Draft EIR was made available to request copies of additional materials, and thereafter, the City promptly and in good faith responded to each request made by commenter, thus ensuring that the commenter had ample time to review and comment upon the Draft EIR and all materials referenced therein.

17-3
This comment asserts that several appendices of the Air Quality, Energy, Greenhouse Gas Emissions and Health Risk Assessment Impact Analysis (Appendix B of the DEIR) were not included in the Public Review DEIR and were not available during the Public Review Comment Period. The commenter lists the following Appendices to Appendix B of the DEIR as not being provided during the Public Review Comment Period:

1) Appendix C: Gas Station Cancer Risk Tool (V1.103) Printouts
2) Appendix D – AERMOD Model Years 2024 – 2026 Construction DPM Printouts
3) Appendix E – AERMOD Model Year 2027 Construction DPM Printouts
4) Appendix F – AERMOD Model Years 2028 – 2041 Operational DPM Printouts
5) Appendix G – AERMOD Model Years 2042 – 2054 Operational DPM Printouts

The commenter also stated that certain documents listed in the reference sections of various appendices were not made available via weblink.

As described in response 9-1 and 16-7, the City published the Notice of Availability (NOA), on the City's website, and provided printed copies of the Draft EIR for public review at both the City of Coachella Development Services-Planning Division and the Coachella Library, on July 21, 2025, in accordance with CEQA requirements. The City also uploaded the draft EIR, including the executive summary, all chapters, and all primary appendices containing key environmental analysis (Appendices A, B, C, D, E1, E2, E3, F1, F2, G1, G2, G3, H and I) to the City's website, on July 21, 2025.

The commenter asserts that the City's failure to make the above reference documents available on the City's website on July 21 precluded meaningful public review of the Draft EIR. Regarding this assertion, the standard of review in a CEQA case is abuse of discretion. (*Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, 512). An agency abuses its discretion by failing to proceed in the manner required by law if its action or decision does not substantially comply with the requirements of CEQA. Pub Res C §§21168, 21168.5; *Communities for a Better Env't v South Coast Air Quality Mgmt. Dist.* (2010) 48 Cal.4th 310; *Laurel Heights Improvement Ass'n v Regents of Univ. of Cal*. (1988) 47 Cal.3d 376, 392.). When determining whether an agency abused its discretion by not substantially complying with the law, the analysis depends on the extent to which an EIR "reasonably sets forth sufficient information to foster informed public participation and to enable the decision-makers to consider the environmental factors necessary to make a reasoned decision." (*Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, 516). Here, the Draft EIR, and all primary appendices, were available on the City's website at the start of the public review period, and those documents reasonably set forth sufficient information to foster informed public participation.

The commenter cites two cases, *Ultramar v. South Coast Air Quality Man. Dist*. (1993) 17 Cal.App.4th 689 ("*Ultramar*") and *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3rd 818 ("*Santiago*") to support the assertion that the public was "precluded from having the meaningful opportunity to comment on the DEIR" due to the temporary omission of the appendices to the appendices and other documents listed in the reference sections of the secondary appendices from the City's website. However, both *Ultramar* and *Santiago* are distinguishable because those cases involved the omission from the actual environmental document of analysis related to key environmental impacts, which were critical to enable both public participation and informed agency decisions as to the environmental impacts of the proposed projects. Specifically, in *Ultramar*, the court held that the agency's failure to make an entire chapter of the environmental assessment available for public review during the requisite review period subverted the purposes of CEQA. (*Ultramar* at 704). In *Santiago*, the court held that a draft EIR was insufficient as an informative document because the draft EIR lacked any description of the facilities that would have to be constructed to deliver water to the proposed mining operation, a major environmental impact of the project, which frustrated the core goals of CEQA. (*Santiago* at 829-831).

Here, unlike *Santiago*, no significant aspect of the Project or the environmental analysis was omitted from the Draft EIR. Rather, the underlying technical reference documents at issue were utilized by the City in its environmental analysis and decision-making process, and were cited in the Draft EIR. Additionally, unlike in *Ultramar*, no chapter or page of the key environmental analysis in the Draft EIR was omitted from the website, and the City immediately posted the requested reference documents

on its website as soon as it became aware that the reference documents were missing. The draft EIR, including the Executive summary, all chapters, and all primary appendices containing key environmental analysis, were timely uploaded to the City's website and were available for the entirety of the public review period as required by section 15105 of the CEQA guidelines.

Finally, CEQA does not require an in-depth analysis of every possible permutation of the data supporting the EIR: "Too much should not be expected of an EIR. It is not to have the exhaustive scope of a scientific textbook . . . much of what goes into an EIR is left to the discretion of the agency preparing it . . . 'An EIR is not required to address all of the variations of the issues presented. An analysis of every permutation of the data is not required.'" (*Tiburon Open Space Committee v. County of Marin* (2022) 78 Cal.App.5th 700, 726 (internal citations omitted)). The court in *Tiburon* noted that draft EIRs are often more comprehensive than required by CEQA: "The text of draft EIRs should normally be less than 150 pages and for proposals of unusual scope or complexity should normally be less than 300 pages. (Guidelines, § 15141.) . . . It is one of the ironies of CEQA in operation that the EIR . . . ends up being more comprehensive than absolutely required by CEQA. The very completeness of a draft EIR may simply produce more targets for opponents of the project to attack." (*Id*. at fn. 18 and fn. 24).

Here, the commenter is attempting to attack the sufficiency of the Draft EIR based on a minor technicality that is beyond the requirements of CEQA. Neither the commenter nor the public were prejudiced in their evaluation of the Draft EIR due to the delayed availability of a few technical appendices to the Air Quality, Energy, GHG, and HRA report that was included as Appendix B to the Draft EIR and posted on the City's website for the entire 45-day public review period. The lack of any such prejudice is further demonstrated by the City's prompt and good faith efforts to provide the technical reference documents immediately upon the commenter's request for such documents. This plainly constitutes substantial compliance with the procedural requirements of CEQA and fully ensured informed public comment on the Draft EIR . Ultimately, the City reasonably set forth sufficient information in the draft EIR to foster both informed decision-making and informed public participation. (*see Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, 516). Therefore, recirculation of the Draft EIR is not warranted, and no further response is necessary.

17-4
Refer to Response 17-1

3.0 Errata

Changes to the Draft EIR are noted below. A double underline indicates additions to the text; strikethrough indicates deletions to the text. Changes have been analyzed and responded to in Section 2.0, Response to Comments, of this Final EIR. The changes to the Draft EIR do not affect the overall conclusions of the environmental document. Changes are listed by page and, where appropriate, by paragraph.

These errata address the technical comments on the Draft EIR, which circulated from July 21, 2025, through September 3, 2025. These clarifications and modifications are not considered to result in any new or substantially greater significant impacts as compared to those identified in the Draft EIR. Any changes referenced to mitigation measures contained in the Draft EIR text also apply to Draft EIR Section ES, Executive Summary, of the Draft EIR. All mitigation measure modifications have been reflected in Section 4.0, Mitigation Monitoring and Reporting Program, of this Final EIR.

Section 2.0, Project Description

Page 2.0-9

The City of Coachella is the Lead Agency with responsibility for approving the proposed Project under the California Environmental Quality Act (CEQA). Table 2.5, *Required Permits and Approvals*, shows the actions that would be required to implement the proposed Project.

Table 2.5: Required Permits and Approvals

Agency	Permit/Approval Required
FEDERAL	
No federal agencies identified	
STATE	
State Water Resources Control Board	Construction Stormwater General Permit Notice of Intent to Comply with Section 402 of the Clean Water Act Construction Stormwater Pollution Prevention Plan
California Public Utilities Commission	Proposed utility facility
California Department of Transportation (Caltrans)	Encroachment permits, right-of-way abandonment
REGIONAL	
South Coast Air Quality Management District	PM10 Plan for compliance with Rule 403.1, Dust Control in the Coachella Valley; Odor Management Plan for compliance with Rule 402, Nuisance
Regional Water Quality Control Board Region 7	Water Quality Management Plan
Riverside County Airport Land Use Commission	Review of Project consistency with the Airport Land Use Compatibility Plan
County of Riverside Department of Environmental Health	Approval of Hazardous Waste Business Plan for applicable land uses
Imperial Irrigation District	Connection services to site

Agency	Permit/Approval Required
Coachella Valley Water District	Connection services to site
County of Riverside Transportation and Land Management Agency	Encroachment permit for any work within County right-of-way along Airport Boulevard
LOCAL	
City of Coachella	Approval of the following entitlements: • Change of Zone from M-H to MS-IP and C-G to allow for proposed land uses • Conditional Use Permit (CUP) for the cannabis-related uses • Conditional Use Permit (CUP) for drive-through restaurant use • Conditional Use Permit (CUP) for fuel station and associated retail use • Tentative Parcel Map • Development Agreement • Planning Commission Architectural Review

Section 3.0, Environmental Setting

Page 3.0-3 and 3.0-4

Table 3-1: Cumulative Projects in the City of Coachella

Project	Status	Address	Description	Sqft/ Units	Acres	Distance from Project site
Borrego Health Clinic	Complete	NW corner of Avenue 50 & Calhoun Street	Medical Clinic	40,919 sqft	4.56	4.8 mi
Bellissima by Pulte	Under Construction	E of Fredrick Street between Avenues 53 & 54	Single-Family one - two story	111 units ranging 1,342 sqft, 2,467 sqft	24	3.3 mi
Coachella Greenery	Open	84-801 Avenue 48	Cannabis Business Industrial	1,100 sqft	1.6	4.7 mi
Coachella Releaf Dispensary	Open	86-705 Avenue 54, Ste H	Retail Cannabis MS-IP zone micro business	3,800 sqft		1.0 mi
Fountainhead Plaza	Under Construction	NE corner of 1st Street & Cesar Chavez Street	Super Market Quick Serve Restaurant Starbucks	20,422 sqft	8.25	3.6 mi
Glenroy Hotel Project	Construction Stalled	SE corner of Avenue 48 & Van Buren Street	Bungalow Style Hotel	160,656 sqft	24.43	5.0 mi
HOTN/Sinsemilla Dispensary &	Under Construction	1694 6th Street	Retail cannabis dispensary	1,432 sqft	0.11	3.5 mi

Project	Status	Address	Description	Sqft/ Units	Acres	Distance from Project site
Pub Project						
JJWR Industrial Development	Approved	53-457 & 53-459 Enterprise Way	Industrial Warehouse	25,750 sqft	3.29	1.0 mi
Mariposa Pointe D.R. Horton	Under Construction	SEC Calhoun Street & 50th Avenue	One and two story single family residence	155 vacant lots Plan 1 1,898 sqft Plan 2 2,239 sqft Plan 3 2,435 sqft	37.3	3.5 mi
Placita Dolores Huerta	Under Construction	874-900 Bagdad Avenue	Apartments	110 units 2 & 3 bd	5.76	2.8 mi
Pueblo Viejo Villas	Construction Complete	NE corner of Cesar Chavez and 6th Street	Three-story mixed use building	105 dwelling units 3,000 sqft	2.61	3.3 mi
Rancho Los Flores 2	Under Review	NE corner Avenue 49 & Van Buren Street	Subdivision	1,898-2,435 sqft	30.4	4.8 mi
Sevilla By Plute Homes	Under Construction	NE of Avenue 51 E of Van Buren Street	Single-Family	107 two-story buildings 1,959 – 2,825 sqft	26.8	4.2 mi
Tripoli Mixed-Use Project	Planning Commission approved 4/20/22	NEC of Cesar Chavez Street & Bagdad Avenue	Mixed use apartments and retail	108 units	2.83	3.2 mi
Villa Verde Apartments	Approved	84-824 Calle Verde	Apartment Community	152 units	9.4	3.0 mi
Vista Del Agua	Under Review	E of Tyler Street, N Avenue 48 W Polk Street	Subdivide 42.92 acres	204 single family lots	42.92	4.0 mi
Encanto	Under Review	W Van Buren Street, Avenue 51 & Avenue 52	Subdivision	112 single family	19.2	4.0 mi
La Terraza	Under Review	1562 6th Street	Mixed-use two story building	First story 2,302 sqft; second story 1,583 sqft	N/A	3.2 mi
Pueblo Cannabis	Approved	85-591 Grapefruit Boulevard	Cannabis Dispensary	1500 sqft	0.30	3.5 mi
Sevilla II	Under Review	W Van Buren Street & S Avenue 50	Residential Development	204 single family residences	39	4.5 mi
Airport Boulevard Bridge Replacement Project	Approved	Airport Boulevard over the Whitewater River	Bridge replacement	N/A	25	0.02 mi

Project	Status	Address	Description	Sqft/ Units	Acres	Distance from Project site
CVWD Coachella Valley Stormwater Channel (CVSC) Improvement Project, Avenue 54 to Thermal Drop Structure	Approved	Approximately 130 feet north of Avenue 54 to approximately 300 feet south of the Thermal Drop Structure, which is located between Avenues 57 and 58	Stormwater channel improvements	N/A	116±	0.02 mi

Page 3.0-5

Table 3-2: Cumulative Projects in the County of Riverside

Project	Description	Address	Sqft/Acres	Within 5 miles distance of Project site
PP25073	Contractors Storage Yard	Foundation Road	2160 sqft	3 mi
TTM38861	Single Family Residential lots	Northeast corner of 54th Avenue and Fillmore Street	2.251 acres	1 mi
CUP03158	Farm workers mobile home park	58th Avenue	20 acres	2 mi
CUP190004	Private Truck storage	Airport Boulevard	1,680 sqft	0.3 mi
PM33490	Subdivision	Desert Cactus Road	10.1 acres	1 mi
PM34159	Divide 156 Ac. Into 71 Industrial Parcels	Carnegie Drive	156 acres	2.5 mi
PPT190018	Storage yard landscape company	Foundation Road	3,300 sqft	3 mi
Airport Boulevard Bridge Replacement Project	Bridge Replacement	Airport Boulevard over the Whitewater River	25 acres	0.02 mi

CVWD Coachella Valley Stormwater Channel (CVSC) Improvement Project, Avenue 54 to Thermal Drop Structure	Stormwater channel improvements	Approximately 130 feet north of Avenue 54 to approximately 300 feet south of the Thermal Drop Structure, which is located between Avenues 57 and 58	116±	0.02 mi

Section 4.3, Air Quality

Page 4.3-19

Consistency with the AQMP assumptions is determined by performing an analysis of a project with the assumptions in the AQMP. The AQMP is developed through use of the planning forecasts provided in the RTP/SCS and FTIP. The RTP/SCS is a major planning document for the regional transportation and land use network within southern California, that is required by federal and state requirements placed on SCAG and is updated every four years. Local governments are required to use these plans as the basis of their plans for the purpose of consistency with applicable regional plans under CEQA. For the proposed Project, the City of Coachella General Plan's Land Use Plan defines the long-range land use assumptions that are represented in AQMP. Although the proposed Project would require a zoning change ~~and a general plan amendment (GPA)~~ in order to accommodate all potential uses for the development, the requested change would not result in the alteration of total allowed vehicle trips or other parameters utilized by SCAG in generating the forecasts provided in the RTP/SCS because the resultant zoning and land use designations are consistent with the types, intensity, and patterns of land use envisioned for the site under current designations.

Page 4.3-28

Table 4.3-9: Project-Related Diesel Particulate Matter (DPM) Emissions Cancer Risks at Nearby Sensitive Receptors

Sensitive Receptor[1]	Receptor Location		Annual PM2.5 Concentration (µg/m3)				Cancer Risk Per Million People[2]
	X	Y	Construction 2024-2026	Construction 2027	Operations 2028- 2041	Operations 2042-2054	
1	580,086	3,722,773	0.00259	0.00135	0.00157	0.00134	1.46
2	580,122	3,722,774	0.002630	0.00146	0.00179	0.00156	1.58
3	580,172	3,722,775	0.002730	0.00146	0.00157	0.00145	1.57
4	580,242	3,722,717	0.00214	0.00113	0.000910	0.0008	1.12
5	580,289	3,722,738	0.00224	0.00123	0.000910	0.00089	1.12
6	580,337	3,722,732	0.00202	0.0011	0.00089	0.00078	1.01
7	579,963	3,722,704	0.00146	0.0008	0.0007	0.00076	0.8
8	579,927	3,722,644	0.00102	0.0006	0.0005	0.0005	0.6

Sensitive Receptor[1]	Receptor Location		Annual PM2.5 Concentration (µg/m3)				Cancer Risk Per Million People[2]
	X	Y	Construction 2024-2026	Construction 2027	Operations 2028- 2041	Operations 2042-2054	
9	579,519	3,722,783	0.0005	0.0003	0.0004	0.0004	0.3
10	579,466	3,722,781	0.0004	0.0002	0.00034	0.0003	0.3
11	579,393	3,722,779	0.0004	0.0002	0.0003	0.0003	0.23
Threshold of Significance							10
Exceed Threshold?							No

Section 4.4, Biological Resources

Page 4.4-12

Thirty-five special-status wildlife species have been reported to occur in the vicinity of the Study Area. Of these, the following sixseven species have a moderate potential to occur or are present; and are federally and/or state listed as Species of Special Concern (SSC) and/or are candidates for listing and at least partially covered by the CVMSHCP. These include:

- Burrowing owl (*Athene cunicularia;* SSC and CVMSHCP)
- Loggerhead shrike (*Lanius ludovicianus;* CVMSHCP)
- ~~Black-tailed gnatcatcher (*Polioptila melanura;* CVMSHCP)~~
- Vermillion flycatcher (*Pyrocephalus rubinus;* SSC)
- Crissal thrasher (*Toxostoma crissale;* SSC and CVMSHCP)
- Western yellow bat (*Lasiurus xanthinus;* SSC and CVMSHCP)
- San Diego desert woodrat (*Neotoma lepida intermedia;* SSC)

Page 4.4-24

Six ~~Seven~~ special-status species (~~five~~ four birds and two mammals) were determined to have a potential to occur in the Study Area. Of these six ~~seven~~ species, ~~one was determined to be present and~~ all six are considered to have a moderate potential to occur. ~~One species, black-tailed gnatcatcher, is present. No other species or their respective sign (nests, burrows, pellets, whitewash, guano/urine staining) were observed. This species is only covered by the CVMSHCP.~~

Page 4.4-26

MM BIO-1 Nesting Bird Avoidance/Pre-construction Surveys

"Prior to issuance of the Project's grading permit, the following measures shall be implemented:

To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within three ~~seven~~ days prior to vegetation removal or ground disturbance.

A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within three ~~seven~~ days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist will make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still contain potential nesting habitat. No parking, storage of materials, or construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds."

MM BIO-2 Burrowing Owl Pre-construction Survey

In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, pre-construction burrowing owl surveys shall ~~will~~ be conducted by a qualified biologist no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version). Pre-construction surveys shall be conducted within 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not prior to the start of Project disturbance activities. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If either a nesting or escape burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow. The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW and USFWS for review and approval prior to re-commencing Project activities within the restricted area ~~the burrowing owl shall be relocated pursuant to accepted CDFW protocols~~. A burrow is assumed occupied if records indicate that at least one burrowing owl has been observed occupying a burrow on site during the past three years. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of more than 30 days. ~~If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season~~

~~(January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to nearest suitable habitat and presence of burrow) in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January)~~.

Page 4.4-27

MM BIO-3 Emergence Bat Survey

A special-status bat species emergence survey shall be conducted if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat, including the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. The emergence survey will be conducted 30 minutes before sunset and last for up to two hours after sunset. Any special-status bat species observed during the maternity roosting season within or adjacent to the Project Area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction.

Page 4.4-31

The Project is located within the CVMSHCP but is not located within a Conservation Area. As a result, proposed activities at the Project site would avoid direct impacts to the CVMSHCP Conservation Areas and would not otherwise conflict with the CVMSHCP Conservation Objectives. Five ~~Six~~ species (burrowing owl, loggerhead shrike, ~~black-tailed gnatcatcher,~~ vermillion fly catcher, crissal thrasher, and western yellow bat); and three natural sensitive communities (mesquite thickets, arrow weed scrub, and bush seepweed scrub), all have a moderate potential to occur or are present in the Project Area and are covered by the CVMSHCP.

Section 4.5, Cultural Resources

Pages 4.5-9 through 4.5-11

Impact 4.5.2 (*Implementation of the proposed Project would not cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5*)

Mitigation Measures

CUL-1 A qualified archaeologist and Tribal monitor(s) from the Agua Caliente Band of Cahuilla Indians and the Torres Martinez Desert Cahuilla Indians shall be present during any ground disturbing activities during the Project construction phase. In the case that archaeological materials are encountered during ground disturbing activities, all work shall be halted in the vicinity of the discovery until a qualified archaeologist can visit the site of discovery and assess the significance of the archaeological resource. The qualified archaeologist and Tribal monitor shall establish all necessary protocols and procedures for the treatment of resources prior to the initiation of earth moving activities.

Section 4.17, Transportation

Page 4.17-35

One of the cumulative projects considered in this analysis is the Airport Boulevard Bridge Replacement Project (SCH No. 2023030456), which adopted a Negative Declaration on May 16, 2023, and filed a Notice of Determination on June 30, 2023. Those documents analyzed hydrology, traffic, and noise issues, finding only incremental construction noise and short-term emissions relevant. Although that project was found not to have significant individual impacts, its temporary construction emissions and traffic detours fall within the same geographic area as the proposed project and were therefore considered in this cumulative impact assessment. As it is anticipated that the Airport Boulevard Bridge project will be completed prior to commencement of construction of the proposed Project, no cumulatively considerable short-term construction impacts would occur. Rather, the proposed Project is being designed to account for and align with the Airport Boulevard Bridge improvements and lane configurations to avoid any operational transportation impacts. The configuration of the proposed bridge improvements are shown in Exhibit 4.17-1, Replacement of the Airport Boulevard Bridge Over Whitewater River Project - Preliminary Project Overview Interim Striping (1 of 2), and Exhibit 4.17-2, Replacement of the Airport Boulevard Bridge Over Whitewater River Project - Preliminary Project Overview Interim Striping (2 of 2).

Exhibit 4.17-1: Replacement of the Airport Boulevard Bridge Over Whitewater River Project - Preliminary Project Overview Interim Striping (1 of 2)

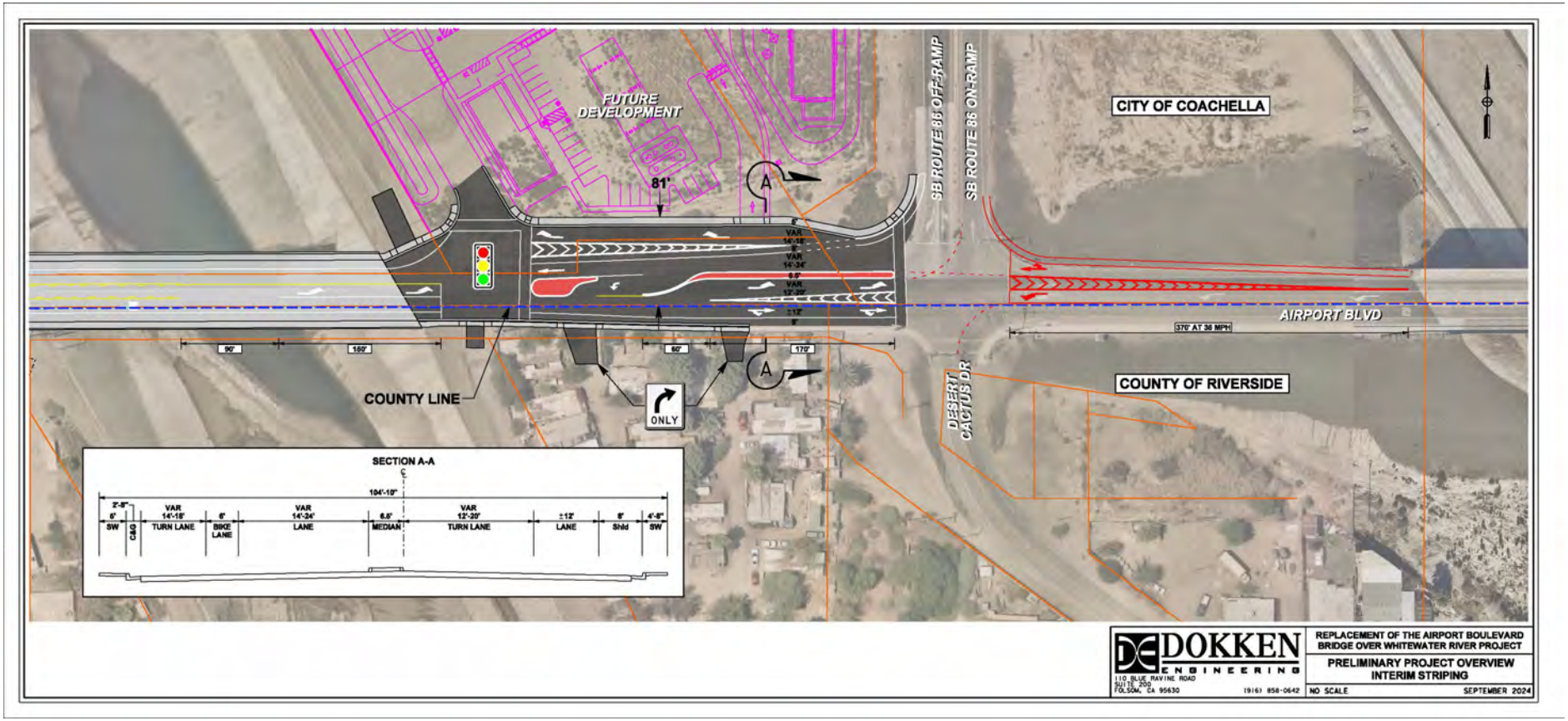
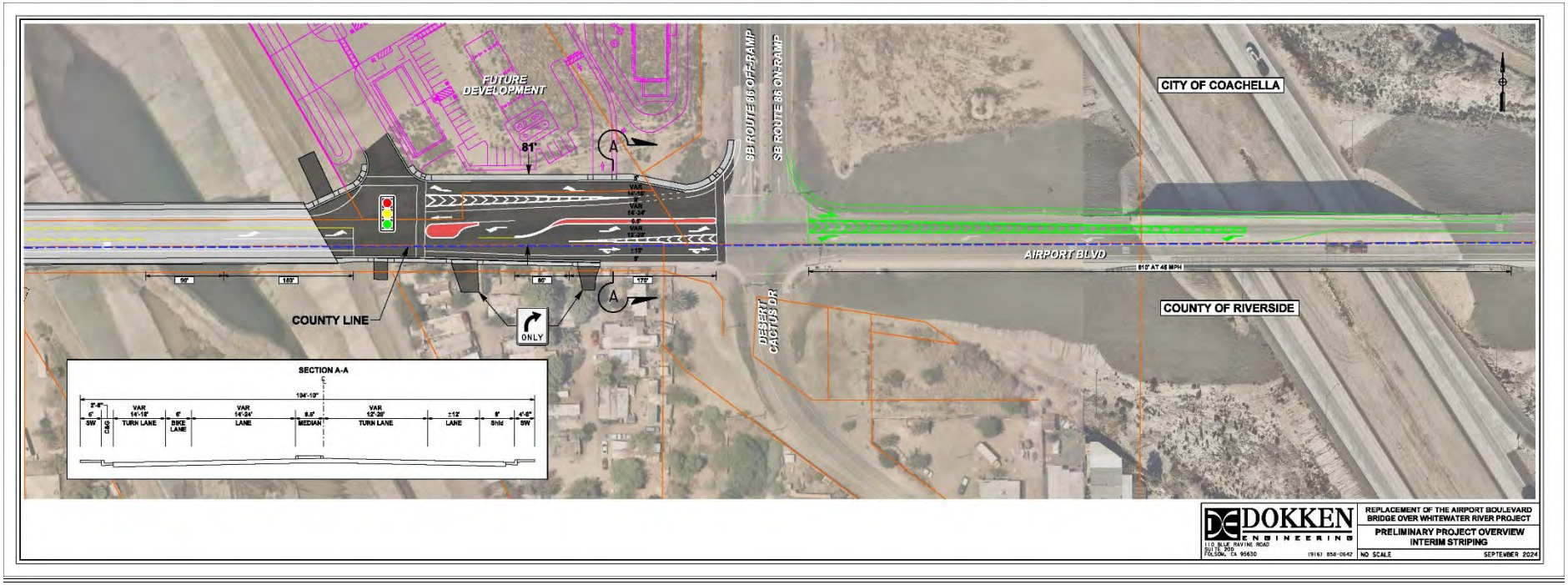


Exhibit 4.17-2, Replacement of the Airport Boulevard Bridge Over Whitewater River Project - Preliminary Project Overview Interim Striping (2 of 2)



Section 4.18, Tribal Cultural Resources

Page 4.18-7

Mitigation Measures

CUL-1 A qualified archaeologist and Tribal monitor(s) from the Agua Caliente Band of Cahuilla Indians and the Torres Martinez Desert Cahuilla Indians shall be present during any ground disturbing activities during the Project construction phase. In the case that archaeological materials are encountered during ground disturbing activities, all work shall be halted in the vicinity of the discovery until a qualified archaeologist can visit the site of discovery and assess the significance of the archaeological resource. The qualified archaeologist and Tribal monitor shall establish all necessary protocols and procedures for the treatment of resources prior to the initiation of earth moving activities.

4.0 Mitigation Monitoring and Reporting Program

The California Environmental Quality Act (CEQA) requires that when a public agency completes an environmental document which includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring program. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring program must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, Table 2, *Mitigation Monitoring and Reporting Checklist*, has been prepared for the proposed Project. This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable mitigation measures relative to significant environmental impacts are monitored and reported. Monitoring will include: 1) verification that each mitigation measure has been implemented; 2) recordation of the actions taken to implement each mitigation; and 3) retention of records in the Coachella Airport Business Park Project file.

This Mitigation Monitoring and Reporting Program (MMRP) delineates responsibilities for monitoring the Project, but also allows the City flexibility and discretion in determining how best to monitor implementation. Monitoring procedures will vary according to the type of mitigation measure. Adequate monitoring consists of demonstrating that monitoring procedures took place and that mitigation measures were implemented. This includes the review of all monitoring reports, enforcement actions, and document disposition, unless otherwise noted in the Mitigation Monitoring and Reporting Checklist (Table 2). If an adopted mitigation measure is not properly implemented, the designated monitoring personnel shall require corrective actions to ensure adequate implementation.

- Reporting consists of establishing a record that a mitigation measure is being implemented, and generally involves the following steps:
- The City distributes reporting forms to the appropriate entities for verification of compliance.
- Departments/agencies with reporting responsibilities will review the EIR, which provides general background information on the reasons for including specified mitigation measures.
- Problems or exceptions to compliance will be addressed to the City as appropriate.
- Periodic meetings may be held during project implementation to report on compliance of mitigation measures.
- Responsible parties provide the City with verification that monitoring has been conducted and ensure, as applicable, that mitigation measures have been implemented. Monitoring compliance may be documented through existing review and approval programs such as field inspection reports and plan review.
- The City prepares a reporting form periodically during project-specific review and an annual report summarizing all project mitigation monitoring efforts.
- Appropriate mitigation measures are included as conditions of permits/approvals for future project-specific review.

Minor changes to the MMRP, if required, would be made in accordance with CEQA and would be permitted after further review and approval by the City. No change will be permitted unless the MMRP continues to satisfy the requirements of Public Resources Code Section 21081.6.

Based on the Draft EIR, no significant impacts would occur in regard to the following environmental issue areas and no mitigation is required:

- Agriculture and Forest Resources;
- Hydrology and Water Quality;
- Land Use and Planning;
- Mineral Resources;
- Population and Housing;
- Public Services;
- Recreation; and
- Utilities and Public Services.

In accordance with Appendix G of the CEQA Guidelines, the following environmental issue areas were determined in the Draft EIR to have a potentially significant impact and require mitigation measures, and were included in the Draft EIR for further analysis:

- Aesthetics;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Energy;
- Geology and Soils;
- Greenhouse Gas Emissions;
- Hazards and Hazardous Materials;
- Noise;
- Transportation;
- Tribal Cultural Resources; and
- Wildfire.

For the purposes of the environmental analysis in the Draft EIR, impacts were analyzed in each environmental issue area for the proposed Project. Consideration of mitigation measures that apply to each respective topical area was considered, particularly if that impact would be reduced.

Table 2: Mitigation Monitoring and Reporting Checklist

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
Aesthetics						
AES-1	The construction contractor shall locate construction equipment staging and stockpile areas on the central and western portions of the Project site, away from Airport Boulevard and the neighboring existing residential uses. Appropriate screening (i.e., temporary fencing with opaque material) shall be used to buffer views of construction equipment and material. The staging and stockpile locations shall be indicated on Grading Plans and shall be subject to approval by the City of Coachella Public Works Department prior to issuance of grading permits.	Prior to the Issuance of Grading Permits	City of Coachella Public Works Department			
AES-2	The construction contractor shall locate and aim all construction-related nighttime security lighting away from adjacent uses, including both residential and non-residential areas neighboring the Project site. A construction safety lighting plan shall be submitted to the City of Coachella Public Works Department for review and approval prior to issuance of grading permits.	Prior to the Issuance of Grading Permits	City of Coachella Public Works Department			
Biological Resources						
BIO-1	**Nesting Bird Avoidance/Pre-construction Surveys.** Prior to issuance of the Project's grading permit, the following measures shall be implemented: To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC,	Prior to Vegetation Removal or Ground Disturbance	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within three days prior to vegetation removal or ground disturbance. A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within three days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist will make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the					

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still contain potential nesting habitat. No parking, storage of materials, or construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds.					
BIO-2	**Burrowing Owl Pre-construction Survey.** In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, pre-construction burrowing owl surveys shall be conducted by a qualified biologist no less than 14 days prior to the start of	Prior to Initial Site Disturbance	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	Project-related activities and within 24 hours prior to ground disturbance, in accordance with the Staff Report on Burrowing Owl Mitigation (2012 or most recent version). Pre-construction surveys shall be conducted within 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not prior to the start of Project disturbance activities. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If either a nesting or escape burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow. The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to CDFW and USFWS for review and approval prior to re-commencing Project activities within the restricted area. A burrow is assumed occupied if records indicate that at least one burrowing owl has been observed occupying a burrow on site during the past three years. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of more than 30 days.					
BIO-3	**Emergence Bat Survey**. A special-status bat species emergence survey shall be conducted if construction activities are to occur within 300	Prior to Initial Site Disturbance	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey will be conducted in areas of suitable roosting habitat, including the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. The emergence survey will be conducted 30 minutes before sunset and last for up to two hours after sunset. Any special-status bat species observed during the maternity roosting season within or adjacent to the Project Area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction.					
BIO-4	**Woodrat Middens.** Woodrat middens (nests) are large nests or dens made of woody debris, such as sticks, dead cacti, and bark. Middens were observed along the northern fence separating the business park and the IID substation Project Areas within the Project impact area. Within 30 days prior to initial site disturbance, a pre-construction survey shall be conducted for woodrat middens. All occupied woodrat middens shall be mapped and flagged for avoidance to the extent feasible, with a minimum of 10-feet surrounding the active midden. If avoidance is not feasible, middens will be "daylighted" by a qualified biologist one night before anticipated vegetation removal to allow for the rats to escape	Prior to Initial Site Disturbance	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	and passively relocate prior to disturbance of the area.					
BIO-5	**Worker Environmental Awareness Program.** The Project Applicant shall implement a WEAP for the construction crew that will be developed by a qualified biologist. Each employee (including temporary, contractors, and subcontractors) will receive the WEAP presentation on the first day of project work. They will be advised of sensitive species in the area and avoidance measures being implemented to protect them at the site. At a minimum, the WEAP will include the following topics: occurrence of the listed and sensitive species in the area, their general ecology, sensitivity of the species to human activities, legal protection afforded these species, penalties for violations of federal and State laws, reporting requirements, and project features and conditions designed to reduce direct and indirect impacts to these species, role of the qualified biologist, and worker responsibilities to maintain compliance with mitigation measures while working at the site.	Prior to and During Construction Activities	City of Coachella Planning Division			
BIO-6	**CVMSHCP Development Fee.** The Project Applicant shall pay the CVMSHCP Local Development Mitigation Fee pursuant to Chapter 4.48 of the Coachella Municipal Code.	Prior to the Issuance of Grading Permit and/or Building Permit	City of Coachella Planning Division			
BIO-7	**Invasive Plant Species Control.** Invasive plant species, for the purpose of this document, shall include all species with a California Invasive Plant	Prior to and During	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	Council (Cal-IPC) rating of moderate or high. Construction personnel and equipment shall be free of invasive plant seeds, propagules, and any material which may contain them (e.g., soil). Prior to entering the Project Area equipment will be inspected to confirm it is free of mud, dirt, and debris. Tire track stations will be installed at Project Area entrances and exits. Staging areas and access routes shall avoid weed infestations and infestations within the work area(s) shall be flagged and avoided to the maximum extent feasible. Only certified weed-free materials (e.g., fiber rolls, straw, and fill) will be used for the Project.	Construction Activities				
BIO-8	**General Best Management Practices.** Standard construction Best Management Practices will be implemented by the contractor to minimize potential impacts to sensitive species. Standard Construction Best Management Practices shall include the following: • Vehicle speeds will not exceed 10 miles per hour (mph) adjacent to any occupied burrowing owl habitat. Clear signage will be installed and maintained throughout the construction period. • Placement of drip pans under parked equipment and vehicles. • Regular inspection and maintenance of equipment to avoid spills and immediate containment of any spills. • Chemicals and pesticides will not be used.	Prior to and During Construction Activities	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	• Pets and firearms will not be allowed at the site. • Trash will be removed from the site daily or be stored in wildlife proof containers • Stormwater protection (i.e. straw waddles, silt fence) will be employed to prevent spills, runoff, or sediment from entering nearby aquatic habitats. These materials will be weed free and no Project debris or rubbish will be allowed to enter into or be placed where it may be washed by rainfall or runoff in the wetlands. • Staging/storage areas for equipment and materials will be located at least 100 feet away from the riparian areas. Equipment will be checked and maintained daily to prevent leaks of pollutants into the wetlands. • No equipment maintenance will be carried out within 100 feet of the riparian area. • All pipes, culverts, or similar structures with a four-inch diameter or greater that are stored on the construction site overnight shall be thoroughly inspected for wildlife or nesting birds before the pipe is subsequently curried, capped, or otherwise used or moved in any way. • To prevent inadvertent entrapment of wildlife during construction, all excavated, wells, steepwalled holes or trenches more than two feet deep shall be covered with					

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	plywood or similar materials at the close of each working day. • Any construction lighting will be directed toward the work area and away from adjacent habitats.					
BIO-9	**Habitat Mitigation and Monitoring Plan.** Mitigation for wetland waters of the state impacts will occur as specified during the WDRs permitting process and may occur at a suitable on-site or off-site location where habitat values meeting or exceeding those on site are achievable, or at an approved Conservation or Mitigation Bank. A Habitat Mitigation and Monitoring Plan (HMMP) will be prepared that specifies restoration and monitoring requirements for approval by the City and RWQCB prior to Project initiation. The HMMP will incorporate the WDR permit compensatory mitigation requirements for impacts to the wetland waters of the State, if pursued, along with the impacts to the sensitive natural communities. The HMMP will include, at a minimum, the following information: • Description of the project/impact site (i.e., location, responsible parties, and areas to be impacted by habitat type) • Goal(s) of the compensatory mitigation project (i.e., the acreage of the mitigated habitat to be restored); • Description of the proposed compensatory mitigation site(s) (i.e., location and size,	Prior to Initial Site Disturbance	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	ownership status, existing conditions of the compensatory mitigation site); • Implementation plan for the compensatory mitigation site (i.e., rationale for expecting implementation success, responsible parties, schedule, site preparation, planting plan [container sizes, seeding rates, etc.]); • Maintenance activities during the monitoring period, including weed removal and irrigation as appropriate; • Monitoring plan for the compensatory mitigation site (i.e., performance standards, target acreages to be established and/or preserved, annual monitoring reports); • Success criteria based on the goals and measurable objectives; • Funding mechanisms; and • An adaptive management and remedial measure component.					
Cultural Resources						
CUL-1	A qualified archaeologist and Tribal monitor(s) from the Agua Caliente Band of Cahuilla Indians and the Torres Martinez Desert Cahuilla Indians shall be present during any ground disturbing activities during the Project construction phase. In the case that archaeological materials are encountered during ground disturbing activities, all work shall be halted in the vicinity of the discovery until a qualified archaeologist can visit	Prior and During Ground Disturbing Activities	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	the site of discovery and assess the significance of the archaeological resource. The qualified archaeologist and Tribal monitor shall establish all necessary protocols and procedures for the treatment of resources prior to the initiation of earth moving activities.					
CUL-2	In the event that human remains are uncovered during ground disturbing activities on the Project site, no further disturbance shall occur and all work shall cease within 100 feet of the discovery until the County Coroner has made a determination of the origin and disposition of the remains. Ground disturbing activities and excavations shall not resume until the following has been addressed: 1. The County Coroner has been contacted and determined that no investigation to the cause of death is required; and, 2. If the County Coroner determines that the remains are of Native American descent, the Coroner shall notify Native American Heritage Commission (NAHC), which will then determine the Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend means of treating or disposing of, with appropriate dignity, the human remains, and any associated grave goods	During Ground Disturbing Activities	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	as provided in Public Resource Code Section 5097.98 and Health and Safety Code 7050.5.					
Geology and Soils						
GEO-1	Prior to the issuance of a grading permit, a geotechnical investigation specific to building design and liquefaction, in compliance with City of Coachella requirements, shall be prepared by a licensed professional and submitted to the City of Coachella for review. The geotechnical report shall assess potential consequences of any liquefaction and soil strength loss, estimation of lateral soil movements or reduction in foundation soil bearing capacity. The geotechnical report shall provide recommended measures to ensure compliance with all applicable geotechnical standards for building design consideration, such as mat foundations, pile foundations, or ground improvement to mitigate the potential liquefaction settlements, and all recommendations shall be incorporated into all improvement plans.	Prior to the Issuance of Grading Permits	City of Coachella Planning Division			
GEO-2	During the design level of the Project and prior to issuance of a grading permit, the Project Applicant shall prepare subsurface explorations and laboratory testing of soil samples and submit to the City for review and approval, which shall be utilized to provide specific design recommendations for the earthwork and structures. Field observation and construction review shall be provided by a licensed	Prior to the Issuance of Grading Permits	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	professional during grading, excavation, and foundation construction, which shall include recommendations and measures for the removal of surface and near surface soils down to competent materials and their replacement with properly compacted fill.					
GEO-3	Prior to the start of any and all proposed Project activities, all field personnel shall receive worker's environmental awareness training on paleontological resources. The training shall be developed by a certified paleontologist familiar with the overall area, the site and specific components of the proposed Project. The training shall: a) provide a description of the laws and ordinances protecting fossil resources; b) provide education and means of identification of the types of fossil resources that may be encountered in the Project area; c) identify the role of the paleontological monitor; d) outline the steps that shall be followed in the event that a fossil discovery is made; and e) provide contact information for the Project paleontologist.	Prior to the Start of Construction Activities	City of Coachella Planning Division			
GEO-4	Prior to the commencement of ground-disturbing activities, a certified paleontologist shall be retained to prepare and implement a Paleontological Resources Monitoring and Mitigation Plan (PRMMP) for the proposed Project and submit it to the City for review and approval. The PRMMP shall describe the monitoring required during excavations that extend into Pleistocene age sediments, and the	Prior Ground Disturbing Activities	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	location of areas deemed to have a high paleontological resource potential. Part-time monitoring, or spot checking may be required during shallow ground-disturbances (< 10 feet below ground surface) to confirm that sensitive geologic units are not being impacted. Monitoring shall entail the visual inspection of excavated or graded areas and trench sidewalls.					
GEO-5	In the event that a paleontological resource is discovered, the certified paleontological monitor shall have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and, if appropriate, collected and stored according to professional standards and guidelines. If the resource is determined to be of scientific significance, the Project paleontologist shall implement the recovery of resources, as established in the PRMMP.	During Ground Disturbing Activities	City of Coachella Planning Division			
GEO-6	For all excavations and ground disturbance activity (and curation of fossils if necessary) conducted at depths more than 10 feet or in any areas where the paleontologist determines that older deposits are encountered, the Project paleontologist shall prepare a final mitigation and monitoring report outlining the results of the PRMMP. The report shall include discussion of the location, duration and methods of the monitoring, stratigraphic sections, any recovered fossils, and the scientific significance of those	During Ground Disturbing Activities	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	fossils, and where fossils were curated. The final report shall be provided to the City of Coachella.					
Greenhouse Gas Emissions						
GHG-1	The Project shall include, but not be limited to, the following improvements, which shall be incorporated into the Project site plans to ensure consistency with adopted statewide plans and programs that are in effect at the time the Building Permits are issued. The Project Applicant shall demonstrate compliance with the following measures, prior to issuance of Building Permits: • To the maximum extent feasible, all off-road equipment (non-street legal), such as forklifts and street sweepers, used onsite for warehouse operations shall be powered by alternative fuels, electrical batteries or other alternative/non-diesel fuels (e.g., propane or compressed natural gas (CNG)) that do not emit diesel particulate matter, and that are low or zero emissions. • The Project Applicant shall require that a minimum of 50 percent of the total Project electrical consumption from operation of the Project on an aggregate, site-wide basis is provided by onsite solar photovoltaic (PV) panels or other onsite renewables sources (i.e., wind turbines, geothermal).	Prior to the Issuance of Building Permits	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	• The Project Applicant shall require any business that operates in the proposed project and has 20 or more full-time employees shall implement at least one of the following programs: o Pre-tax election program to allow employees to exclude wages for commuting costs for transit or vanpools; o An employer supplied transit pass; o Employer provided transit; or o Other, similar demand management programs. • The Project Applicant shall require that temporary power poles are installed in the vicinity of each structure to be installed. The temporary power poles shall be installed after completion of grading and prior to the issuance of each building permit. After electrification of the temporary power poles, the Project Applicant shall restrict building contractors from using gaspowered generators, compressors and saws and this restriction shall be incorporated into all contracts with building contractors that will work on the proposed Project.					
Hazards and Hazardous Materials						

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
HAZ-1	Prior to any ground disturbing activity on the site, a soils investigation shall be conducted by a qualified soils engineer to assess the pesticide contamination levels in the Project site's soils. If the pesticide contamination levels exceed USEPA Regional Screening Levels for pesticides, the Project Applicant shall implement a soils management program to reduce the soil's pesticide concentration levels to below USEPA Regional Screening Levels through soils excavation, removal and offsite disposal in compliance with all applicable USEPA regulations. All activities shall be coordinated with the City of Coachella and the County of Riverside Department of Environmental Health.	Prior Ground Disturbing Activities	City of Coachella Planning Division			
Noise						
NOI-1	The Project Construction Contractor shall ensure adherence to the following noise reduction requirements during Project construction: • The use of exhaust mufflers, and engine shrouds, that reduce equipment noise levels by approximately 10 dBA shall be required. • Construction equipment staging areas shall be located the furthest distance possible from nearby noise-sensitive land uses, located on the central and western portions of the Project site, away from Airport Boulevard and the neighboring existing residential uses.	During Construction Activities	City of Coachella Planning Division			
Transportation						

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
TRA-1	All necessary plans, permits or approvals, including but not limited to traffic control plans, encroachment or other permits from Caltrans, Union Pacific Railroad, Imperial Irrigation District and others, shall be prepared by the Construction Contractor for and approved by the City prior to the initiation of site disturbance such as grading, excavation, hauling, paving and other construction activities where public streets may be affected. Prior to the initiation of site improvements, the Project Applicant shall confer with the appropriate Coachella Public Works Department, Caltrans and the Union Pacific Railroad to ensure that construction activities and traffic control are carried out in a manner that causes minimal disruption to traffic on adjoining facilities.	Prior to Construction Activities	City of Coachella Public Works Department			
TRA-2	The final location and design of construction staging and access shall comply with any applicable City access and design standards, and be reviewed by the Project Engineer. The Project Applicant shall submit traffic control plans to the City prior to the issuance of grading and/or construction permits.	Prior to the Issuance of Grading and/or Construction Permits	City of Coachella Public Works Department			
TRA-3	The Project Applicant shall require all operators on the site to implement, to the maximum extent feasible (taking into consideration factors such as infrastructure availability, cost effectiveness, and incentive programs), Measure T-11, requiring the implementation of van pools under CAPCOA's Handbook for Analyzing Greenhouse Gas	During Project Operation	City of Coachella Planning Division			

Mitigation Measure No.	Mitigation Measure	Implementation Timing	Enforcing Agency or Personnel	Verification		
				Signature or Initials	Date	Notes
	Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity.					

January 6, 2026

Madeline Luke
The Altum Group
44-600 Village Court, Suite 100
Palm Desert, CA 92260

Subject: **City of Coachella – Coachella Airport Business Park Project – Responses to Air, GHG and HRA Public Comments.**

Dear Ms. Luke:

Vista Environmental has reviewed the air quality, greenhouse gas (GHG) and health risk assessment (HRA) related comments provided in Comment Letters 5, 13 and 16 and have provided the following responses to these comments.

Comment Letter #5 – South Coast Air Quality Management District

5-1 Introduction, comment noted.

5-2 Comment noted and we concur with the summary of description of the proposed project and project timing.

5-3 According to https://content.govdelivery.com/accounts/CARB/bulletins/3e00147 the EMFAC2025 model has not yet been approved by the EPA. As such, no changes have been made to the modeling, as the most current approved EMFAC model has been utilized in the DEIR.

5-4 The AERMOD model runs were re-run with the following changes: 1) the most current versions of AERMOD, AERMET, AERMINUTE and AERSURFACE were utilized; 2) the averaging times of 1 hour and Period were selected; 3) the most current meteorological data for Jacqueline Cochran Regional Airport was utilized; and 4) for the operational model runs, the proposed buildings heights were entered into AERMOD and pre-processed with BPIP.

The revised AERMOD model run results and associated cancer risks are shown in the revised Table BB and the revised Appendices D, E, F, and G with the AERMOD model printouts are attached to this letter.

As shown in the revised Table BB the cancer risk from the proposed project's DPM emissions would be as high as 1.5 per million persons at the mobile homes located south of the project site (Sensitive Receptors 2 and 3). When combined with the gas station TAC emissions, this would result in a cancer risk as high as **3.0 per million persons** at the mobile homes located south of the project site. The combined project-related cancer risk from DPM and gas station TAC emissions would be within the SCAQMD's threshold of 10 per million persons. Therefore, operation of the proposed project would result in a less than significant impact due to the cancer risk from TAC emissions.

Table A – Project-Related DPM Emissions Cancer Risks at Nearby Sensitive Receptors

Sensitive Receptor[1]	Receptor Location		Annual PM2.5 Concentration (µg/m^3)				Cancer Risk Per Million People[2]
	X	Y	Construction 2024-2026	Construction 2027	Operations 2028- 2041	Operations 2042-2054	
1	580,086	3,722,773	0.0025	0.0013	0.0015	0.0013	1.4
2	580,122	3,722,774	0.0026	0.0014	0.0017	0.0015	1.5
3	580,172	3,722,775	0.0027	0.0014	0.0015	0.0014	1.5
4	580,242	3,722,717	0.0021	0.0011	0.0009	0.0008	1.1
5	580,289	3,722,738	0.0022	0.0012	0.0009	0.0008	1.1
6	580,337	3,722,732	0.0020	0.0011	0.0008	0.0007	1.0
7	579,963	3,722,704	0.0014	0.0008	0.0007	0.0007	0.8
8	579,927	3,722,644	0.0010	0.0006	0.0005	0.0005	0.6
9	579,519	3,722,783	0.0005	0.0003	0.0004	0.0004	0.3
10	579,466	3,722,781	0.0004	0.0002	0.0003	0.0003	0.3
11	579,393	3,722,779	0.0004	0.0002	0.0003	0.0003	0.2
						Threshold of Significance	**10**
						Exceed Threshold?	**No**

Notes:
[1] The locations of each Sensitive Receptor are shown above in Figure 3.
[2] The residential cancer risk based on: C_{air} (2024-2026) * 342 + C_{air} (2027) * 29 + C_{air} (2028-2041) * 336 + C_{air} (2042-2054) * 45.2.
Source: Calculated from ISC-AERMOD View Version 12.0.0.

5-5 As detailed in Response 5-4 above, the 1-hour and Period averaging times and the building downwash were analyzed in the revised AERMOD model runs and the revised results are shown above in Table BB and the revised AERMOD model output files are attached to this Memo.

5-6 The cancer and non-cancer risks from diesel emissions created from construction and operation of the proposed project that included construction-related off-road equipment and construction and operational idling and truck travel onsite and within a quarter mile of the project site were analyzed through use of AERMOD and Section 8.3 of the Air Report describes the Modeling inputs and Section 10.4 of the Air Report shows the modeling results. The RiskTool has been utilized in hundreds of CEQA documents and is a published analysis method that is utilized for gas stations and other site specific sources. Section 10.4 of the Air Report utilized a very conservative method of adding the cancer risk calculated by AERMOD to the cancer risk calculated by the RiskTool, in order to provide the total cancer risk from the proposed project at the nearby sensitive receptors.

5-7 The import of 21,040 cubic yards of dirt to the project site during the grading phase was analyzed in CalEEMod. It should be noted that there are typically several construction projects with excess dirt and only a few projects that need dirt, so it can be reasonably assumed that the imported dirt will come from a nearby project that is located closer than 20 miles away. Furthermore, if dirt is not available from other projects, there are several mine and other types of dirt storage locations within 20 miles where the dirt can be obtained from.

5-8 The SCAQMD provides a Fact Sheet for Applying CalEEMod to Localized Significance Thresholds that can be found at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2 and details how to analyze project that are much greater than 5 acres in size by using calculations base on the active construction equipment. The Air Report utilized the methodology provided in the Fact Sheet to analyze the Localized air impacts from construction and operation of the proposed project.

In order to provide a more complete analysis of localized air impacts during construction and operations, the AERMOD PM2.5 DPM model runs were for both the worst-case construction and operational scenarios.

For construction, the AERMOD model was run as detailed in Section 8.3 of the Air Report and was based on the Site Preparation phase of construction, which as shown in Table X of the Air Report is when the highest level of PM2.5 emissions would occur during construction of the proposed project. The Off-road equipment source was set to match the 4.17 pounds per day of PM2.5 emissions as calculated from CalEEMod. The AERMOD model run files are provided in the new Appendix H attached to this Letter, which found that Site Preparation activities would create PM2.5 concentrations as high as 0.192 µg/m^3, which is well below SCAQMD's PM2.5 construction threshold of 10.4 µg/m^3, that was obtained from: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25

For operations, the AERMOD model as detailed in Section 8.3 of the Air Report and was based on the year 2028 PM2.5 emissions rates from the EMFAC2021 model output files provided in Appendix B of the Air Report and included emissions from exhaust (RUNEX), brake wear (PMBW) and tire wear (PMTW). The AERMOD model run files are provided in the new Appendix I attached to this Letter, which found that operational activities would create PM2.5 concentrations as high as 0.024 µg/m^3, which is well below SCAQMD's PM2.5 operational threshold of 2.5 µg/m^3.

5-9 The distance utilized the default trip distances that ranged between 4.79 and 9.65 miles in the CalEEMod model. The trip distances in the CalEEMod model vary for each region of the State and are based on empirical evidence provide in the CalEEMod User Guide and the use of the default trip distances in CalEEMod meets the CEQA requirement of providing substantial evidence of the analysis. The largest warehouse would be 48,800 square feet, which would be considered a small warehouse in Southern California and no warehouses would be designed to be high-cube warehouses, which are the warehouses specifically designed to receive cargo containers. For these reasons, a truck trip directly from the Ports to the project site would likely rarely happen and the default truck trip distances provides a reasonable estimate of the truck trip distances that would occur during operation of the proposed project.

5-10 No railroad connections or loading areas will be provided on the project site as part of the proposed project. Plus the railroad is on the west side of the Whitewater River, which would require a very expensive railroad bridge to connect the project site to the railroad, which would likely never be economically feasible to provide.

5-11 The proposed project is located within the Assembly Bill 617 (AB 617) designated Eastern Coachella Valley (ECV) community, which has been identified by the South Coast Air Quality Management District (South Coast AQMD) as an area subject to cumulative air quality burdens from multiple regional and local emission sources. As part of the environmental analysis, air

quality impacts associated with construction and operation of the proposed project were evaluated in accordance with the CEQA Guidelines, South Coast AQMD significance thresholds, and applicable regulatory requirements.

The Community Emission Reductions Plan (CERP) for the ECV community, adopted by the South Coast AQMD Governing Board on June 4, 2021, was reviewed for consistency with the proposed project. Construction and operation of the proposed project will comply with all applicable AB 617 requirements for the Eastern Coachella Valley community, as well as all applicable South Coast AQMD rules and regulations. The proposed project incorporates mitigation measures designed to minimize emissions of criteria pollutants and toxic air contaminants during construction and operation. These measures are consistent with the air quality improvement strategies identified in the ECV CERP and would not conflict with or impede implementation of the CERP.

As demonstrated in the air quality analysis, the proposed project's emissions would not result in significant air quality impacts after implementation of required mitigation measures and would not contribute substantially to existing air quality burdens within the ECV community. Coordination with South Coast AQMD would continue, as required, to ensure compliance with applicable air quality regulations. This comment does not identify new information that would alter the conclusions of the air quality analysis, and no additional mitigation measures are required.

5-12 The project applicant has committed to ensuring that all contractors that utilize off-road equipment on the project site are registered with CARB and meet the current regulations regarding Zero Emission (ZE) Vehicles. Furthermore, the project applicant has committed to implementing Mitigation Measure GHG-1 that restricts the use of diesel-powered off-road equipment during operation of the proposed project and requires temporary power poles to be installed during construction of the proposed project that will allow for the charging of the ZE vehicles.

5-13 The project applicant will comply with SCAQMD's Rule 2305, however it should be noted that the largest warehouse space on the proposed plans is 48,800 square feet, so unless a tenant were to take leases on multiple warehouse spaces, this Rule will likely not apply to the proposed project.

5-14 As shown in the DEIR, the proposed project has provided adequate mitigation to reduce all air quality-related impacts to less than significant levels. It should be noted that most of the commenter's proposed mitigation has already or will likely become State Regulations that the project applicant will be required to implement.

5-15 Rules 201, 203, 402, 403, 461, 1108, 1113, 1143, 1401, have all been discussed in Section 4.3 of the Air Report.

5-16 Conclusion, comment noted.

Comment Letter 13 – Advocates for the Environment

13-1 Introduction, comment noted.

13-2 The proposed project consists of a business park with a mixture of commercial and industrial uses. The commenter references net zero communities that are primarily residential communities,

where Title 24 regulations require that new homes built in California are net zero through the installation of solar PV systems on each home. When developing the Title 24 regulations, the State recognized the importance of commercial and industrial projects to the State economy as well as the ability of commercial uses to provide local services to the community, and Title 24 provides different standards for non-residential buildings, which allow for these buildings to consume more energy, which cannot currently be met with onsite solar PV systems. However, it should be noted that the project applicant has committed to implementing Mitigation Measure GHG-1, which requires a minimum of 50 percent of the total project electrical consumption to be provided from onsite renewable sources.

13-3 The GHG analysis in Section 10.8 was prepared pursuant to the City's CAP and clearly states that the proposed project's GHG emissions were quantified for informational purposes only and determination of significance has been based on a determination of whether the Project has implemented all applicable development standards presented in the CAP Development Review Checklist. It should be noted that the CAP provides for four compliance paths that either include implementation of all applicable development standards provided in the CAP Development Review Checklist **or** meet the City's performance targets. As such, meeting the City's performance targets, that are set for new residential projects, are not applicable to the proposed project.

13-4 The City's CAP meets the requirements of Section 15183.5(b), since the CAP has (A) quantified GHG emissions for both existing and projected for years 2020 and 2035; (B) established a level, based on substantial evidence, below which the contribution to GHG would not be cumulatively considerable; (C) identified and analyzed the GHG emissions, segmented by Sector and Source within the City; (D) specifies a group of measures in the CAP Development Review Checklist that is to be implemented on a project basis that would collectively achieve the specified emissions levels; (E) establishes mechanisms to monitor the Plan's progress toward achieving the levels; (F) the CAP was adopted by the City Council in June 2014, after a public review process.

13-5 As detailed above in Response 13-4, the CAP meets the requirements of Section 15183.5(b). Since the DEIR has demonstrated that with implementation of Mitigation Measure GHG-1, the proposed project would be in compliance with the CAP, the proposed project was found to create a less than significant GHG emissions impact.

13-6 As detailed above in Response 13-4, the CAP meets the requirements of Section 15183.5(b). Although the CAP was prepared before the 2017 and 2022 Scoping Plans, both of these Plans and the CAP were prepared based on the ultimate goals provided in AB 32 of an 80 percent reduction in GHG emissions below 1990 levels by 2050. Furthermore, as detailed above the Service Population targets are for residential developments and are not applicable to a business park.

13-7 As detailed above in Response 13-3, the CAP provides four compliance paths and the DEIR is based on implementation of all applicable development standards provided in the CAP Development Review Checklist. As such, the Service Population metric is not applicable to the proposed project.

13-8 As shown in the Energy Use Calculations in the Air Report and specifically in Table L – the fuel used by the generators, welders, and air compressors, all of which are stationary equipment that would be required to be electrified and run off of the temporary power poles, represent 8.4 percent of the total off-road equipment fuel used during construction of the proposed project. The remaining 1.6 percent reduction would be achieved through implementation of the

Transportation Demand Management Program. Although, the commenter is correct that there are several other sources of GHG emissions during construction, they are negligible when compared to GHG emissions from petroleum fuel use and the Development Standards for this measure are limited to use of alternative powered equipment as well as implementation of TDM plan for the construction workers.

13-9 The TDM plan is specifically called in the CAP Development Review Checklist as a way to be consistent with the measures in the Checklist. The CAP has provided substantial evidence that shows implementation of TDM deployment Citywide would reduce GHG emissions by approximately 5%. Since the DEIR provides for a very conservative analysis, since it only applies a 1.6 percent reduction for implementing a TDM plan.

13-10 The 2017 and 2022 Scoping Plans are discussed in several places throughout the Air Report, including Sections 3.2, 6.3, and 6.4 of the Air Report. Also, as detailed above in Response 13-6, the CAP was prepared to meet the overall GHG reduction goals provided in the 2017 and 2022 Scoping Plans.

13-11 CEQA allows for taking credit for emissions reductions provided by State Regulations.

13-12 The proposed project will be required to meet the current Title 24 requirements, for each phase of construction, which will likely require any buildings constructed around the year 2045 to be net zero energy.

13-13 The City prepared the CAP and associated CAP Development Review Checklist in order to streamline the GHG emissions analyses for new development projects in the City, so that each new development project does not need to analyze every possibly applicable plan in the State that has been adopted to reduce GHG emissions. As detailed in Response 13-6 above, the Service Population targets are for residential developments and are not applicable to the proposed project.

13-14 Executive Order B-55-18 is discussed in Section 6.3 of the Air Report. As detailed in Response 13-13, above, the CAP was prepared so that each development project does not need to analyze every possibly applicable Plan in the State for reducing GHG emissions.

13-15 As detailed above in Response 13-3, the quantification of GHG emissions was provided for informational purposes only and not used for determination of significance. Furthermore, the Mitigation Measure GHG-1 was prepared to show compliance with the CAP. This is not compression of the analysis, since the unmitigated condition is self-evident, as it consists of not implementing Mitigation Measure GHG-1, which would result in non-compliance with the CAP.

13-16 Mitigation Measure GHG-1 was prepared per the direction of the CAP and utilized the Development Standards provided in the CAP Development Review Checklist to develop the measures included in Mitigation Measure GHG-1.

13-17 The Commenter is not correct as the DEIR found a significant GHG impact and provided Mitigation Measure GHG-1 to reduce the GHG impact to less than significant. As detailed above in Response 13-16, the reduction measures included in Mitigation Measure GHG-1 were developed from the CAP Checklist.

13-18 Conclusion, comment noted.

Comment Letter 16 – Adams Broadwell

16-2 The commenter incorrectly claims that the DEIR failed to analyze emissions from key components, including a water line extension, backup generators, and cold storage uses of the proposed warehouse space and the DEIR failed to analyze Valley Fever. First as detailed in the DEIR, the water line extension is a separate project that would occur with or without the proposed project. Diesel-powered backup generators are quickly becoming obsolete in California, with the new Title 24 regulations that require solar PV systems to include battery storage systems that can also be utilized for backup power. Mitigation Measure GHG-1 requires the project to be designed to generate a minimum of 50% of the power onsite from renewable sources, which is likely to be at least partially met through the use of battery storage systems. The proposed warehouses are not being designed for cold storage, as such cold storage would not be allowed under the current entitlement.

According to: https://www.dir.ca.gov/dosh/valley-fever-home.html, the Valley Fever Rates for Riverside County and Imperial County to the south are in the level of 10-19 per 100,000 persons, which is the same rate as Los Angeles County and Orange County, which are also part of the SCAQMD. Unlike the Central Valley, where the incident rate is four times higher at 75+ per 100,000 persons and where the San Joaquin Valley Air Pollution District has developed guidelines for addressing Valley Fever, due to the low number of Valley Fever cases within the SCAQMD, the SCAQMD CEQA Guidelines do not recommend analyzing Valley Fever in CEQA documents. However, the SCAQMD does provide the most stringent dust suppressant rules in the State, which is the primary means of transmission of Valley Fever. For these reasons, Valley Fever is not likely to be transmitted from construction activities associated with the proposed project.

16-10 As detailed above in Response 16-2, the water line would be constructed with or without the proposed project and as such, is being analyzed as a separate project.

16-11 As detailed above in Response 16-2, diesel powered generators are becoming obsolete in California due to new Title 24 regulations that require PV solar systems to include battery storage systems that can also be utilized for backup power that do not produce any emissions or excessive noise. As such, the commenter's assumption that diesel-powered backup generators would be installed as part of the proposed project is not correct.

16-12 As detailed above in Response 16-2, the proposed warehouses are not being designed for cold storage, as such cold storage warehouse uses would not be an allowed use in the proposed warehouses.

16-14 As detailed above in Response 16-2, Valley Fever is not a significant risk in Riverside County. Regardless, adherence to the SCAQMD's very stringent fugitive dust regulations during construction of the proposed project would go above and beyond the Valley Fever suppression requirements in the Central Valley, where it is a potential health risk.

16-17 The commenter is not correct when he states that the DEIR calculates this measure would reduce impacts by 3.55%. Although the Mitigation Measure of a Commute Trip Reduction Program was selected in the CalEEMod model run, the Operational Emissions shown in the DEIR and Air Report so the unmitigated emissions levels. The only place that the reductions of this measure is shown is in the quantified GHG emissions Table that is provided for informational purposes only as the amounts are not utilized to determine if the project would create a significant impact. However,

in the consistency analysis with the CAP Development Review Checklist, it was determined that the Transportation Demand Management Program included in Mitigation Measure GHG-1 would reduce GHG emissions by 1.6%, which is less than half of what CAPCOA calculated for implementation of this measure. In addition, the City's CAP found that a Citywide Transportation Demand Management Program would reduce emissions by 5% and provided substantial evidence to support that conclusion. As such, the use of a 1.6% reduction in emissions from implementation of the TDM provides for a conservative analysis supported by substantial evidence.

16-18 As detailed above in Response 16-17, the 1.6% reduction in GHG emissions that the DEIR takes credit for with implementation of Mitigation Measure GHG-1 provides for a conservative analysis supported by substantial evidence.

16-19 The distance utilized the default trip distances that ranged between 4.79 and 9.65 miles in the CalEEMod model. The trip distances in the CalEEMod model vary for each region of the State and are based on empirical evidence provide in the CalEEMod User Guide and the use of the default trip distances in CalEEMod meets the CEQA requirement of providing substantial evidence of the analysis. The largest warehouse would be 48,800 square feet, which would be considered a small warehouse in Southern California and no warehouses would be designed to be high-cube warehouses, which are the warehouses specifically designed to receive cargo containers. For these reasons, a truck trip directly from the Ports to the project site would likely rarely happen and the default truck trip distances provides a reasonable estimate of the truck trip distances that would occur during operation of the proposed project.

16-20 General Plan Policy 11.3 prohibits the siting of land uses that adversely impact existing sensitive receptors, including schools, childcare centers, senior housing, and subsidized affordable housing. The existing mobile home park is not one of listed sensitive receptors in General Plan Policy 11.3. In addition, the DEIR found that the operation of the proposed project, including the gas station would not create a significant cancer risk at the residents of the mobile home park, so it can be reasonably assumed that the proposed gas station is not a land use that would adversely impact sensitive receptors. The commenter also provides made up thresholds that have not been adopted by the City or SCAQMD. The DEIR shows that the cancer risk is within the SCAQMD adopted thresholds and the City relies on the SCAQMD's expertise for developing these thresholds.

16-21 The HRA was prepared based on guidance provided by SCAQMD that recommends that HRAs analyze truck travel up to a quarter mile from the project site or to the onramps of the nearest freeway, whichever is nearer, which is based on the assumption that trucks are very efficient and produce very little emissions when traveling at constant speeds on freeways. Furthermore, the cancer risk created by the proposed project at the mobile home park was calculated to be as high as 3.0 per million person, which is well below the 10 per million person threshold. The commenter did not provide any evidence that extension of a road source that is located over 600 feet from the most impacted residents would more than triple the cancer risk levels that would be required to change the significance levels shown in the DEIR.

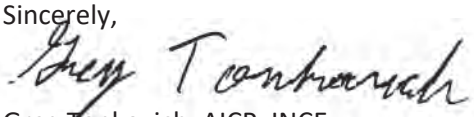
16-23 As detailed in the revised Table BB, the cancer risk levels drop off from 1.5 per million at Receptors 2 and 3, which represent homes located 50 feet south of the project site to 0.2 per million at Receptor 11, which represents a home 1,900 feet from the project site. This shows that DPM

emissions disperse rapidly and cumulative projects would need to be within approximately 2,000 feet of the project site to provide any quantifiable increase to cancer risk rates. Furthermore, the examples provided by the commenter are from very large warehouse projects. The largest warehouse in the proposed project is 48,800 square feet, which would be considered a small warehouse in Southern California. The SCAQMD Working Group is discussing new regulations for large warehouses that are over 100,000 square feet, which would not apply to the proposed project.

16-24 As detailed above in Response 16-23, the draft SCAQMD protocols are for warehouses that are over 100,000 square feet, which would not apply to the proposed project. In addition, the commenter discuses warehouse projects that would generate over 951 daily truck trips. The proposed project would generate 88 2-axle truck trips, 109 3-axle truck trips and 330 4+axle truck trips for a total of 527 daily truck trips, which is well below the 951 daily truck trips referenced by the commenter. As such, the working group thresholds that have not yet been adopted by the SCAQMD is not applicable to the proposed project.

Please call me at (949) 510-5355 if you have any questions related to the above.

Sincerely,



Greg Tonkovich, AICP, INCE
Senior Analyst,
Vista Environmental
949 510 5355

Encl.: Revised Appendices D, E, F, and G
New Appendix H – AERMOD Model Site Preparation PM2.5 Emissions Printouts
New Appendix I – AERMOD Model Operational Year 2028 PM2.5 Emissions Printouts

APPENDIX D

AERMOD Model Years 2024 – 2026 Construction DPM Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/1/2025
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\Const24\Const24.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park - Construction 2024-2026 DPM
   TITLETWO PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL Const24.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.27E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0003033 VOLUME 580076.882 3722821.514 -38.77
LOCATION L0003034 VOLUME 580076.385 3722825.138 -38.76
LOCATION L0003035 VOLUME 580075.889 3722828.761 -38.74
LOCATION L0003036 VOLUME 580074.448 3722832.047 -38.73
LOCATION L0003037 VOLUME 580072.532 3722835.163 -38.71
LOCATION L0003038 VOLUME 580070.616 3722838.278 -38.71
LOCATION L0003039 VOLUME 580068.700 3722841.394 -38.71
LOCATION L0003040 VOLUME 580066.784 3722844.510 -38.71
LOCATION L0003041 VOLUME 580064.868 3722847.625 -38.71
LOCATION L0003042 VOLUME 580062.953 3722850.741 -38.71
LOCATION L0003043 VOLUME 580061.037 3722853.857 -38.71
LOCATION L0003044 VOLUME 580059.121 3722856.973 -38.72
LOCATION L0003045 VOLUME 580057.205 3722860.088 -38.74
LOCATION L0003046 VOLUME 580055.289 3722863.204 -38.76
LOCATION L0003047 VOLUME 580053.282 3722866.261 -38.78
LOCATION L0003048 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0003049 VOLUME 580049.160 3722872.303 -38.80
LOCATION L0003050 VOLUME 580047.098 3722875.325 -38.80
LOCATION L0003051 VOLUME 580045.070 3722878.368 -38.80
LOCATION L0003052 VOLUME 580043.095 3722881.447 -38.79
LOCATION L0003053 VOLUME 580041.120 3722884.525 -38.78
LOCATION L0003054 VOLUME 580039.145 3722887.604 -38.77
LOCATION L0003055 VOLUME 580037.169 3722890.682 -38.75
LOCATION L0003056 VOLUME 580035.194 3722893.760 -38.72
LOCATION L0003057 VOLUME 580033.219 3722896.839 -38.71
LOCATION L0003058 VOLUME 580031.243 3722899.917 -38.71
LOCATION L0003059 VOLUME 580029.268 3722902.995 -38.72
LOCATION L0003060 VOLUME 580027.293 3722906.074 -38.73
LOCATION L0003061 VOLUME 580025.318 3722909.152 -38.74
LOCATION L0003062 VOLUME 580023.342 3722912.230 -38.74
LOCATION L0003063 VOLUME 580021.367 3722915.309 -38.74
LOCATION L0003064 VOLUME 580019.392 3722918.387 -38.74
LOCATION L0003065 VOLUME 580017.417 3722921.466 -38.73
LOCATION L0003066 VOLUME 580015.441 3722924.544 -38.71
LOCATION L0003067 VOLUME 580013.466 3722927.622 -38.71
LOCATION L0003068 VOLUME 580011.491 3722930.701 -38.71
LOCATION L0003069 VOLUME 580009.515 3722933.779 -38.71
LOCATION L0003070 VOLUME 580007.540 3722936.857 -38.71
LOCATION L0003071 VOLUME 580005.565 3722939.936 -38.71
LOCATION L0003072 VOLUME 580003.590 3722943.014 -38.71
LOCATION L0003073 VOLUME 580001.614 3722946.092 -38.71
LOCATION L0003074 VOLUME 579999.639 3722949.171 -38.71
LOCATION L0003075 VOLUME 579997.664 3722952.249 -38.71
LOCATION L0003076 VOLUME 579995.689 3722955.328 -38.71
LOCATION L0003077 VOLUME 579993.713 3722958.406 -38.71
LOCATION L0003078 VOLUME 579991.738 3722961.484 -38.71
LOCATION L0003079 VOLUME 579989.763 3722964.563 -38.71
LOCATION L0003080 VOLUME 579987.788 3722967.641 -38.71
LOCATION L0003081 VOLUME 579985.812 3722970.719 -38.71
LOCATION L0003082 VOLUME 579983.837 3722973.798 -38.71
LOCATION L0003083 VOLUME 579981.862 3722976.876 -38.71
LOCATION L0003084 VOLUME 579979.886 3722979.955 -38.71
LOCATION L0003085 VOLUME 579977.911 3722983.033 -38.71
LOCATION L0003086 VOLUME 579975.936 3722986.111 -38.71
LOCATION L0003087 VOLUME 579973.961 3722989.190 -38.71
LOCATION L0003088 VOLUME 579971.985 3722992.268 -38.71
LOCATION L0003089 VOLUME 579970.010 3722995.346 -38.71
LOCATION L0003090 VOLUME 579968.035 3722998.425 -38.71
LOCATION L0003091 VOLUME 579966.060 3723001.503 -38.71
LOCATION L0003092 VOLUME 579964.084 3723004.581 -38.71

LOCATION L0003093 VOLUME 579962.109 3723007.660 -38.71
LOCATION L0003094 VOLUME 579960.134 3723010.738 -38.71
LOCATION L0003095 VOLUME 579958.158 3723013.817 -38.71
LOCATION L0003096 VOLUME 579956.183 3723016.895 -38.70
LOCATION L0003097 VOLUME 579954.208 3723019.973 -38.69
LOCATION L0003098 VOLUME 579952.233 3723023.052 -38.68
LOCATION L0003099 VOLUME 579950.257 3723026.130 -38.67
LOCATION L0003100 VOLUME 579948.282 3723029.208 -38.67
LOCATION L0003101 VOLUME 579946.307 3723032.287 -38.68
LOCATION L0003102 VOLUME 579944.332 3723035.365 -38.68
LOCATION L0003103 VOLUME 579942.356 3723038.443 -38.70
LOCATION L0003104 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0003105 VOLUME 579938.406 3723044.600 -38.71
LOCATION L0003106 VOLUME 579936.430 3723047.679 -38.69
LOCATION L0003107 VOLUME 579934.455 3723050.757 -38.67
LOCATION L0003108 VOLUME 579932.480 3723053.835 -38.65
LOCATION L0003109 VOLUME 579930.505 3723056.914 -38.63
LOCATION L0003110 VOLUME 579928.522 3723059.987 -38.62
LOCATION L0003111 VOLUME 579926.536 3723063.059 -38.61
LOCATION L0003112 VOLUME 579924.550 3723066.130 -38.61
LOCATION L0003113 VOLUME 579922.565 3723069.202 -38.61
LOCATION L0003114 VOLUME 579920.579 3723072.274 -38.62
LOCATION L0003115 VOLUME 579918.594 3723075.346 -38.63
LOCATION L0003116 VOLUME 579916.608 3723078.417 -38.59
LOCATION L0003117 VOLUME 579914.623 3723081.489 -38.55
LOCATION L0003118 VOLUME 579912.637 3723084.561 -38.51
LOCATION L0003119 VOLUME 579910.651 3723087.633 -38.46
LOCATION L0003120 VOLUME 579908.666 3723090.704 -38.37
LOCATION L0003121 VOLUME 579906.680 3723093.776 -38.27
LOCATION L0003122 VOLUME 579904.695 3723096.848 -38.17
LOCATION L0003123 VOLUME 579902.709 3723099.919 -38.07
LOCATION L0003124 VOLUME 579900.723 3723102.991 -37.96
LOCATION L0003125 VOLUME 579898.738 3723106.063 -37.85
LOCATION L0003126 VOLUME 579896.752 3723109.135 -37.76
LOCATION L0003127 VOLUME 579894.767 3723112.206 -37.68
LOCATION L0003128 VOLUME 579892.787 3723115.282 -37.60
LOCATION L0003129 VOLUME 579890.962 3723118.451 -37.52
LOCATION L0003130 VOLUME 579889.136 3723121.621 -37.45
LOCATION L0003131 VOLUME 579887.311 3723124.790 -37.39
LOCATION L0003132 VOLUME 579885.485 3723127.960 -37.32
LOCATION L0003133 VOLUME 579883.660 3723131.129 -37.26
LOCATION L0003134 VOLUME 579881.834 3723134.299 -37.21
LOCATION L0003135 VOLUME 579880.009 3723137.468 -37.15
LOCATION L0003136 VOLUME 579878.183 3723140.638 -37.09
LOCATION L0003137 VOLUME 579876.358 3723143.807 -37.03
LOCATION L0003138 VOLUME 579874.532 3723146.977 -36.97
LOCATION L0003139 VOLUME 579872.707 3723150.146 -36.92
LOCATION L0003140 VOLUME 579870.881 3723153.315 -36.87
LOCATION L0003141 VOLUME 579869.056 3723156.485 -36.82
LOCATION L0003142 VOLUME 579867.230 3723159.654 -36.78
LOCATION L0003143 VOLUME 579865.405 3723162.824 -36.74
LOCATION L0003144 VOLUME 579863.579 3723165.993 -36.70
LOCATION L0003145 VOLUME 579861.754 3723169.163 -36.65
LOCATION L0003146 VOLUME 579859.928 3723172.332 -36.60
LOCATION L0003147 VOLUME 579858.103 3723175.502 -36.55
LOCATION L0003148 VOLUME 579856.277 3723178.671 -36.50
LOCATION L0003149 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0003150 VOLUME 579852.626 3723185.010 -36.40
LOCATION L0003151 VOLUME 579850.801 3723188.180 -36.35
LOCATION L0003152 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0003153 VOLUME 579847.495 3723194.699 -36.25
LOCATION L0003154 VOLUME 579845.942 3723198.010 -36.23
LOCATION L0003155 VOLUME 579844.389 3723201.322 -36.22
LOCATION L0003156 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0003157 VOLUME 579841.283 3723207.945 -36.22
LOCATION L0003158 VOLUME 579839.730 3723211.256 -36.22
LOCATION L0003159 VOLUME 579838.177 3723214.568 -36.23
LOCATION L0003160 VOLUME 579836.624 3723217.879 -36.24
LOCATION L0003161 VOLUME 579835.071 3723221.191 -36.25
LOCATION L0003162 VOLUME 579833.518 3723224.502 -36.27
LOCATION L0003163 VOLUME 579831.965 3723227.814 -36.25
LOCATION L0003164 VOLUME 579830.412 3723231.125 -36.21
LOCATION L0003165 VOLUME 579828.859 3723234.437 -36.18
LOCATION L0003166 VOLUME 579827.306 3723237.749 -36.15
LOCATION L0003167 VOLUME 579825.753 3723241.060 -36.11
LOCATION L0003168 VOLUME 579824.200 3723244.372 -36.08
LOCATION L0003169 VOLUME 579822.743 3723247.722 -36.04
LOCATION L0003170 VOLUME 579821.534 3723251.174 -36.01
LOCATION L0003171 VOLUME 579820.325 3723254.626 -35.97
LOCATION L0003172 VOLUME 579819.115 3723258.078 -35.97
LOCATION L0003173 VOLUME 579817.906 3723261.530 -35.97
LOCATION L0003174 VOLUME 579816.697 3723264.982 -35.97
LOCATION L0003175 VOLUME 579815.488 3723268.434 -35.97
LOCATION L0003176 VOLUME 579814.278 3723271.886 -35.97
LOCATION L0003177 VOLUME 579813.069 3723275.338 -35.97
LOCATION L0003178 VOLUME 579811.860 3723278.790 -35.97
LOCATION L0003179 VOLUME 579810.651 3723282.242 -35.97
LOCATION L0003180 VOLUME 579809.441 3723285.694 -35.97
LOCATION L0003181 VOLUME 579808.232 3723289.145 -35.97
LOCATION L0003182 VOLUME 579807.023 3723292.597 -35.97
LOCATION L0003183 VOLUME 579805.814 3723296.049 -35.97
LOCATION L0003184 VOLUME 579804.604 3723299.501 -35.97
LOCATION L0003185 VOLUME 579803.395 3723302.953 -35.97
LOCATION L0003186 VOLUME 579802.186 3723306.405 -35.97
LOCATION L0003187 VOLUME 579800.977 3723309.857 -35.97
LOCATION L0003188 VOLUME 579799.767 3723313.309 -35.97
LOCATION L0003189 VOLUME 579798.558 3723316.761 -35.96
LOCATION L0003190 VOLUME 579797.349 3723320.213 -35.96
LOCATION L0003191 VOLUME 579796.143 3723323.666 -35.95
LOCATION L0003192 VOLUME 579794.961 3723327.127 -35.95
LOCATION L0003193 VOLUME 579793.780 3723330.589 -35.95
LOCATION L0003194 VOLUME 579792.598 3723334.050 -35.95
LOCATION L0003195 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0003196 VOLUME 579790.235 3723340.973 -35.97
LOCATION L0003197 VOLUME 579789.054 3723344.435 -35.97
LOCATION L0003198 VOLUME 579787.872 3723347.896 -35.97
LOCATION L0003199 VOLUME 579786.691 3723351.358 -35.97
LOCATION L0003200 VOLUME 579785.509 3723354.819 -35.97
LOCATION L0003201 VOLUME 579784.328 3723358.281 -35.97
LOCATION L0003202 VOLUME 579783.146 3723361.743 -35.97
LOCATION L0003203 VOLUME 579781.997 3723365.213 -35.97
LOCATION L0003204 VOLUME 579781.206 3723368.784 -35.97
LOCATION L0003205 VOLUME 579780.415 3723372.355 -35.97
LOCATION L0003206 VOLUME 579779.624 3723375.926 -35.97
LOCATION L0003207 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0003208 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0003209 VOLUME 579777.251 3723386.639 -35.97
LOCATION L0003210 VOLUME 579776.460 3723390.210 -35.97
LOCATION L0003211 VOLUME 579775.670 3723393.781 -35.97
LOCATION L0003212 VOLUME 579774.879 3723397.353 -35.97

```
   LOCATION L0003213     VOLUME   579774.088 3723400.924 -35.97
   LOCATION L0003214     VOLUME   579773.297 3723404.495 -35.97
   LOCATION L0003215     VOLUME   579772.506 3723408.066 -35.98
   LOCATION L0003216     VOLUME   579771.715 3723411.637 -35.99
   LOCATION L0003217     VOLUME   579770.924 3723415.208 -36.00
   LOCATION L0003218     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0003219     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0003220     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0003221     VOLUME   579768.026 3723429.543 -36.03
   LOCATION L0003222     VOLUME   579767.439 3723433.153 -36.03
   LOCATION L0003223     VOLUME   579766.851 3723436.763 -36.03
   LOCATION L0003224     VOLUME   579766.264 3723440.374 -36.02
   LOCATION L0003225     VOLUME   579765.676 3723443.984 -36.02
   LOCATION L0003226     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0003227     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0003228     VOLUME   579763.914 3723454.814 -36.00
   LOCATION L0003229     VOLUME   579763.327 3723458.424 -35.99
   LOCATION L0003230     VOLUME   579762.739 3723462.034 -35.99
   LOCATION L0003231     VOLUME   579762.152 3723465.644 -35.98
   LOCATION L0003232     VOLUME   579761.564 3723469.254 -35.98
   LOCATION L0003233     VOLUME   579760.977 3723472.865 -35.97
   LOCATION L0003234     VOLUME   579760.389 3723476.475 -35.97
   LOCATION L0003235     VOLUME   579759.802 3723480.085 -35.97
   LOCATION L0003236     VOLUME   579759.214 3723483.695 -35.97
   LOCATION L0003237     VOLUME   579758.627 3723487.305 -35.97
   LOCATION L0003238     VOLUME   579758.039 3723490.915 -35.97
   LOCATION L0003239     VOLUME   579757.452 3723494.525 -35.97
   LOCATION L0003240     VOLUME   579756.864 3723498.135 -35.97
   LOCATION L0003241     VOLUME   579756.277 3723501.745 -35.97
   LOCATION L0003242     VOLUME   579755.689 3723505.356 -35.97
   LOCATION L0003243     VOLUME   579755.102 3723508.966 -35.97
   LOCATION L0003244     VOLUME   579754.514 3723512.576 -35.97
   LOCATION L0003245     VOLUME   579753.927 3723516.186 -35.97
   LOCATION L0003246     VOLUME   579753.339 3723519.796 -35.97
   LOCATION L0003247     VOLUME   579752.752 3723523.406 -35.97
   LOCATION L0003248     VOLUME   579752.164 3723527.016 -35.97
   LOCATION L0003249     VOLUME   579751.577 3723530.626 -35.97
   LOCATION L0003250     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0003251     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0003252     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0003253     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0003254     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0003255     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0003256     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0003257     VOLUME   579746.877 3723559.507 -35.97
   LOCATION L0003258     VOLUME   579746.290 3723563.117 -35.97
   LOCATION L0003259     VOLUME   579745.702 3723566.727 -35.97
   LOCATION L0003260     VOLUME   579745.115 3723570.338 -35.97
   LOCATION L0003261     VOLUME   579744.527 3723573.948 -35.97
   LOCATION L0003262     VOLUME   579743.940 3723577.558 -35.97
   LOCATION L0003263     VOLUME   579743.352 3723581.168 -35.97
   LOCATION L0003264     VOLUME   579742.765 3723584.778 -35.97
   LOCATION L0003265     VOLUME   579742.177 3723588.388 -35.97
   LOCATION L0003266     VOLUME   579741.590 3723591.998 -35.97
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.38E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0003267     VOLUME   580084.307 3722820.832 -38.74
   LOCATION L0003268     VOLUME   580083.314 3722824.352 -38.74
   LOCATION L0003269     VOLUME   580082.322 3722827.873 -38.73
   LOCATION L0003270     VOLUME   580081.329 3722831.393 -38.72
   LOCATION L0003271     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0003272     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0003273     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0003274     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0003275     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0003276     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0003277     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0003278     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0003279     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0003280     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0003281     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0003282     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0003283     VOLUME   580063.950 3722872.317 -38.70
   LOCATION L0003284     VOLUME   580067.118 3722874.145 -38.69
   LOCATION L0003285     VOLUME   580070.285 3722875.974 -38.67
   LOCATION L0003286     VOLUME   580073.453 3722877.803 -38.66
   LOCATION L0003287     VOLUME   580076.621 3722879.632 -38.63
   LOCATION L0003288     VOLUME   580079.788 3722881.461 -38.61
   LOCATION L0003289     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0003290     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0003291     VOLUME   580089.291 3722886.947 -38.50
   LOCATION L0003292     VOLUME   580092.459 3722888.776 -38.47
   LOCATION L0003293     VOLUME   580095.626 3722890.604 -38.45
   LOCATION L0003294     VOLUME   580098.794 3722892.433 -38.43
   LOCATION L0003295     VOLUME   580101.961 3722894.262 -38.41
   LOCATION L0003296     VOLUME   580105.129 3722896.091 -38.40
   LOCATION L0003297     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0003298     VOLUME   580111.464 3722899.748 -38.40
   LOCATION L0003299     VOLUME   580114.632 3722901.577 -38.40
   LOCATION L0003300     VOLUME   580117.799 3722903.406 -38.40
   LOCATION L0003301     VOLUME   580120.967 3722905.234 -38.40
   LOCATION L0003302     VOLUME   580124.135 3722907.063 -38.39
   LOCATION L0003303     VOLUME   580127.302 3722908.892 -38.37
   LOCATION L0003304     VOLUME   580130.470 3722910.721 -38.35
   LOCATION L0003305     VOLUME   580133.637 3722912.549 -38.33
   LOCATION L0003306     VOLUME   580136.805 3722914.378 -38.30
   LOCATION L0003307     VOLUME   580139.973 3722916.207 -38.27
   LOCATION L0003308     VOLUME   580143.140 3722918.036 -38.23
   LOCATION L0003309     VOLUME   580146.308 3722919.864 -38.19
   LOCATION L0003310     VOLUME   580149.475 3722921.693 -38.15
   LOCATION L0003311     VOLUME   580151.219 3722924.671 -38.11
```

LOCATION L0003312 VOLUME 580152.339 3722928.153 -38.10
LOCATION L0003313 VOLUME 580153.458 3722931.635 -38.10
LOCATION L0003314 VOLUME 580154.577 3722935.118 -38.10
LOCATION L0003315 VOLUME 580155.629 3722938.593 -38.10
LOCATION L0003316 VOLUME 580153.817 3722941.770 -38.10
LOCATION L0003317 VOLUME 580152.004 3722944.947 -38.10
LOCATION L0003318 VOLUME 580150.192 3722948.124 -38.10
LOCATION L0003319 VOLUME 580148.379 3722951.300 -38.10
LOCATION L0003320 VOLUME 580146.567 3722954.477 -38.10
LOCATION L0003321 VOLUME 580144.754 3722957.654 -38.10
LOCATION L0003322 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0003323 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0003324 VOLUME 580139.317 3722967.185 -38.10
LOCATION L0003325 VOLUME 580137.505 3722970.362 -38.10
LOCATION L0003326 VOLUME 580135.692 3722973.539 -38.10
LOCATION L0003327 VOLUME 580133.880 3722976.716 -38.10
LOCATION L0003328 VOLUME 580132.067 3722979.893 -38.10
LOCATION L0003329 VOLUME 580130.255 3722983.070 -38.10
LOCATION L0003330 VOLUME 580128.442 3722986.247 -38.10
LOCATION L0003331 VOLUME 580126.630 3722989.424 -38.09
LOCATION L0003332 VOLUME 580124.817 3722992.601 -38.09
LOCATION L0003333 VOLUME 580123.005 3722995.778 -38.09
LOCATION L0003334 VOLUME 580121.192 3722998.955 -38.10
LOCATION L0003335 VOLUME 580119.380 3723002.132 -38.10
LOCATION L0003336 VOLUME 580117.567 3723005.309 -38.10
LOCATION L0003337 VOLUME 580115.755 3723008.486 -38.10
LOCATION L0003338 VOLUME 580113.943 3723011.663 -38.10
LOCATION L0003339 VOLUME 580112.130 3723014.839 -38.10
LOCATION L0003340 VOLUME 580110.318 3723018.016 -38.08
LOCATION L0003341 VOLUME 580108.505 3723021.193 -38.07
LOCATION L0003342 VOLUME 580106.693 3723024.370 -38.05
LOCATION L0003343 VOLUME 580104.880 3723027.547 -38.04
LOCATION L0003344 VOLUME 580103.068 3723030.724 -38.04
LOCATION L0003345 VOLUME 580101.255 3723033.901 -38.03
LOCATION L0003346 VOLUME 580099.443 3723037.078 -38.04
LOCATION L0003347 VOLUME 580097.630 3723040.255 -38.04
LOCATION L0003348 VOLUME 580095.818 3723043.432 -38.05
LOCATION L0003349 VOLUME 580094.005 3723046.609 -38.05
LOCATION L0003350 VOLUME 580092.193 3723049.786 -38.04
LOCATION L0003351 VOLUME 580090.381 3723052.963 -38.02
LOCATION L0003352 VOLUME 580088.568 3723056.140 -38.00
LOCATION L0003353 VOLUME 580086.756 3723059.317 -37.98
LOCATION L0003354 VOLUME 580084.943 3723062.494 -37.96
LOCATION L0003355 VOLUME 580083.131 3723065.671 -37.95
LOCATION L0003356 VOLUME 580081.318 3723068.848 -37.94
LOCATION L0003357 VOLUME 580079.506 3723072.025 -37.93
LOCATION L0003358 VOLUME 580077.693 3723075.202 -37.93
LOCATION L0003359 VOLUME 580075.881 3723078.378 -37.93
LOCATION L0003360 VOLUME 580074.068 3723081.555 -37.93
LOCATION L0003361 VOLUME 580072.256 3723084.732 -37.92
LOCATION L0003362 VOLUME 580070.443 3723087.909 -37.91
LOCATION L0003363 VOLUME 580068.631 3723091.086 -37.90
LOCATION L0003364 VOLUME 580066.818 3723094.263 -37.89
LOCATION L0003365 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0003366 VOLUME 580063.194 3723100.617 -37.84
LOCATION L0003367 VOLUME 580061.381 3723103.794 -37.81
LOCATION L0003368 VOLUME 580059.569 3723106.971 -37.81
LOCATION L0003369 VOLUME 580057.756 3723110.148 -37.82
LOCATION L0003370 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0003371 VOLUME 580054.131 3723116.502 -37.84

LOCATION L0003372 VOLUME 580052.319 3723119.679 -37.84
LOCATION L0003373 VOLUME 580050.506 3723122.856 -37.84
LOCATION L0003374 VOLUME 580048.694 3723126.033 -37.83
LOCATION L0003375 VOLUME 580046.881 3723129.210 -37.82
LOCATION L0003376 VOLUME 580045.069 3723132.387 -37.81
LOCATION L0003377 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0003378 VOLUME 580041.444 3723138.741 -37.78
LOCATION L0003379 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0003380 VOLUME 580037.819 3723145.094 -37.77
LOCATION L0003381 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0003382 VOLUME 580034.194 3723151.448 -37.78
LOCATION L0003383 VOLUME 580032.382 3723154.625 -37.78
LOCATION L0003384 VOLUME 580030.569 3723157.802 -37.80
LOCATION L0003385 VOLUME 580028.757 3723160.979 -37.78
LOCATION L0003386 VOLUME 580026.944 3723164.156 -37.76
LOCATION L0003387 VOLUME 580025.132 3723167.333 -37.72
LOCATION L0003388 VOLUME 580023.319 3723170.510 -37.67
LOCATION L0003389 VOLUME 580021.489 3723173.677 -37.62
LOCATION L0003390 VOLUME 580019.622 3723176.822 -37.57
LOCATION L0003391 VOLUME 580017.755 3723179.967 -37.52
LOCATION L0003392 VOLUME 580015.888 3723183.112 -37.47
LOCATION L0003393 VOLUME 580014.021 3723186.258 -37.42
LOCATION L0003394 VOLUME 580012.154 3723189.403 -37.36
LOCATION L0003395 VOLUME 580010.287 3723192.548 -37.31
LOCATION L0003396 VOLUME 580008.420 3723195.693 -37.26
LOCATION L0003397 VOLUME 580006.553 3723198.838 -37.22
LOCATION L0003398 VOLUME 580004.686 3723201.984 -37.17
LOCATION L0003399 VOLUME 580002.819 3723205.129 -37.12
LOCATION L0003400 VOLUME 580000.952 3723208.274 -37.06
LOCATION L0003401 VOLUME 579999.085 3723211.419 -37.03
LOCATION L0003402 VOLUME 579997.218 3723214.565 -37.01
LOCATION L0003403 VOLUME 579995.351 3723217.710 -37.00
LOCATION L0003404 VOLUME 579993.484 3723220.855 -36.99
LOCATION L0003405 VOLUME 579991.617 3723224.000 -36.98
LOCATION L0003406 VOLUME 579989.750 3723227.145 -36.98
LOCATION L0003407 VOLUME 579987.883 3723230.291 -36.99
LOCATION L0003408 VOLUME 579986.016 3723233.436 -36.99
LOCATION L0003409 VOLUME 579984.149 3723236.581 -36.99
LOCATION L0003410 VOLUME 579982.282 3723239.726 -36.98
LOCATION L0003411 VOLUME 579980.415 3723242.871 -36.97
LOCATION L0003412 VOLUME 579978.548 3723246.017 -36.95
LOCATION L0003413 VOLUME 579976.681 3723249.162 -36.93
LOCATION L0003414 VOLUME 579974.814 3723252.307 -36.91
LOCATION L0003415 VOLUME 579972.947 3723255.452 -36.88
LOCATION L0003416 VOLUME 579971.080 3723258.598 -36.85
LOCATION L0003417 VOLUME 579969.213 3723261.743 -36.80
LOCATION L0003418 VOLUME 579967.346 3723264.888 -36.75
LOCATION L0003419 VOLUME 579965.479 3723268.033 -36.70
LOCATION L0003420 VOLUME 579963.612 3723271.178 -36.65
LOCATION L0003421 VOLUME 579961.745 3723274.324 -36.60
LOCATION L0003422 VOLUME 579959.879 3723277.469 -36.55
LOCATION L0003423 VOLUME 579958.012 3723280.614 -36.50
LOCATION L0003424 VOLUME 579956.145 3723283.759 -36.45
LOCATION L0003425 VOLUME 579954.278 3723286.904 -36.40
LOCATION L0003426 VOLUME 579952.411 3723290.050 -36.37
LOCATION L0003427 VOLUME 579950.544 3723293.195 -36.35
LOCATION L0003428 VOLUME 579948.677 3723296.340 -36.32
LOCATION L0003429 VOLUME 579946.810 3723299.485 -36.30
LOCATION L0003430 VOLUME 579944.943 3723302.631 -36.29
LOCATION L0003431 VOLUME 579943.076 3723305.776 -36.28

LOCATION L0003432 VOLUME 579941.209 3723308.921 -36.27
LOCATION L0003433 VOLUME 579939.342 3723312.066 -36.27
LOCATION L0003434 VOLUME 579937.475 3723315.211 -36.27
LOCATION L0003435 VOLUME 579935.608 3723318.357 -36.27
LOCATION L0003436 VOLUME 579933.741 3723321.502 -36.27
LOCATION L0003437 VOLUME 579931.874 3723324.647 -36.27
LOCATION L0003438 VOLUME 579930.007 3723327.792 -36.27
LOCATION L0003439 VOLUME 579928.140 3723330.937 -36.27
LOCATION L0003440 VOLUME 579926.273 3723334.083 -36.27
LOCATION L0003441 VOLUME 579924.406 3723337.228 -36.27
LOCATION L0003442 VOLUME 579922.539 3723340.373 -36.27
LOCATION L0003443 VOLUME 579920.672 3723343.518 -36.27
LOCATION L0003444 VOLUME 579918.805 3723346.664 -36.27
LOCATION L0003445 VOLUME 579916.938 3723349.809 -36.27
LOCATION L0003446 VOLUME 579915.071 3723352.954 -36.27
LOCATION L0003447 VOLUME 579913.204 3723356.099 -36.27
LOCATION L0003448 VOLUME 579911.337 3723359.244 -36.27
LOCATION L0003449 VOLUME 579909.470 3723362.390 -36.27
LOCATION L0003450 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0003451 VOLUME 579905.871 3723368.758 -36.27
LOCATION L0003452 VOLUME 579904.085 3723371.950 -36.27
LOCATION L0003453 VOLUME 579902.299 3723375.142 -36.27
LOCATION L0003454 VOLUME 579900.513 3723378.334 -36.27
LOCATION L0003455 VOLUME 579898.728 3723381.526 -36.27
LOCATION L0003456 VOLUME 579896.942 3723384.718 -36.27
LOCATION L0003457 VOLUME 579895.156 3723387.910 -36.27
LOCATION L0003458 VOLUME 579893.370 3723391.102 -36.27
LOCATION L0003459 VOLUME 579891.584 3723394.294 -36.27
LOCATION L0003460 VOLUME 579889.799 3723397.486 -36.27
LOCATION L0003461 VOLUME 579888.013 3723400.678 -36.27
LOCATION L0003462 VOLUME 579886.227 3723403.870 -36.27
LOCATION L0003463 VOLUME 579884.441 3723407.062 -36.27
LOCATION L0003464 VOLUME 579882.655 3723410.254 -36.27
LOCATION L0003465 VOLUME 579880.870 3723413.446 -36.27
LOCATION L0003466 VOLUME 579879.084 3723416.638 -36.26
LOCATION L0003467 VOLUME 579877.298 3723419.830 -36.24
LOCATION L0003468 VOLUME 579875.512 3723423.022 -36.22
LOCATION L0003469 VOLUME 579873.727 3723426.214 -36.20
LOCATION L0003470 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0003471 VOLUME 579870.155 3723432.598 -36.17
LOCATION L0003472 VOLUME 579868.369 3723435.790 -36.15
LOCATION L0003473 VOLUME 579866.583 3723438.982 -36.13
LOCATION L0003474 VOLUME 579864.798 3723442.174 -36.11
LOCATION L0003475 VOLUME 579863.012 3723445.366 -36.09
LOCATION L0003476 VOLUME 579861.226 3723448.558 -36.07
LOCATION L0003477 VOLUME 579859.440 3723451.750 -36.06
LOCATION L0003478 VOLUME 579857.655 3723454.942 -36.04
LOCATION L0003479 VOLUME 579855.869 3723458.134 -36.02
LOCATION L0003480 VOLUME 579854.083 3723461.327 -36.00
LOCATION L0003481 VOLUME 579852.297 3723464.519 -35.98
LOCATION L0003482 VOLUME 579850.511 3723467.711 -35.99
LOCATION L0003483 VOLUME 579848.726 3723470.903 -36.04
LOCATION L0003484 VOLUME 579846.940 3723474.095 -36.08
LOCATION L0003485 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0003486 VOLUME 579843.368 3723480.479 -36.16
LOCATION L0003487 VOLUME 579841.582 3723483.671 -36.19
LOCATION L0003488 VOLUME 579839.797 3723486.863 -36.22
LOCATION L0003489 VOLUME 579838.011 3723490.055 -36.24
LOCATION L0003490 VOLUME 579836.225 3723493.247 -36.26
LOCATION L0003491 VOLUME 579834.439 3723496.439 -36.26

```
   LOCATION L0003492     VOLUME   579832.654 3723499.631 -36.23
   LOCATION L0003493     VOLUME   579830.868 3723502.823 -36.20
   LOCATION L0003494     VOLUME   579829.082 3723506.015 -36.16
   LOCATION L0003495     VOLUME   579827.296 3723509.207 -36.13
   LOCATION L0003496     VOLUME   579825.510 3723512.399 -36.10
   LOCATION L0003497     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0003498     VOLUME   579821.939 3723518.783 -36.03
   LOCATION L0003499     VOLUME   579820.153 3723521.975 -36.00
   LOCATION L0003500     VOLUME   579818.367 3723525.167 -35.97
   LOCATION L0003501     VOLUME   579816.581 3723528.359 -35.97
   LOCATION L0003502     VOLUME   579814.796 3723531.551 -35.97
   LOCATION L0003503     VOLUME   579813.010 3723534.743 -35.97
   LOCATION L0003504     VOLUME   579811.224 3723537.935 -35.97
   LOCATION L0003505     VOLUME   579809.438 3723541.127 -35.97
   LOCATION L0003506     VOLUME   579807.653 3723544.319 -35.97
   LOCATION L0003507     VOLUME   579805.867 3723547.511 -35.97
   LOCATION L0003508     VOLUME   579804.081 3723550.703 -35.97
   LOCATION L0003509     VOLUME   579802.295 3723553.895 -35.97
   LOCATION L0003510     VOLUME   579800.509 3723557.087 -35.97
   LOCATION L0003511     VOLUME   579798.724 3723560.279 -35.97
   LOCATION L0003512     VOLUME   579796.938 3723563.471 -35.97
   LOCATION L0003513     VOLUME   579795.152 3723566.663 -35.97
   LOCATION L0003514     VOLUME   579793.366 3723569.855 -35.97
   LOCATION L0003515     VOLUME   579791.580 3723573.047 -35.97
   LOCATION L0003516     VOLUME   579789.795 3723576.239 -35.97
   LOCATION L0003517     VOLUME   579788.009 3723579.431 -35.97
   LOCATION L0003518     VOLUME   579786.223 3723582.623 -35.97
   LOCATION L0003519     VOLUME   579784.437 3723585.815 -35.97
   LOCATION L0003520     VOLUME   579782.652 3723589.007 -35.97
   LOCATION L0003521     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 2.0E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0003522     VOLUME   580071.719 3722811.433 -38.86
   LOCATION L0003523     VOLUME   580059.528 3722811.353 -38.96
   LOCATION L0003524     VOLUME   580047.336 3722811.272 -38.98
   LOCATION L0003525     VOLUME   580035.144 3722811.191 -39.01
   LOCATION L0003526     VOLUME   580022.952 3722811.110 -39.01
   LOCATION L0003527     VOLUME   580010.761 3722811.030 -39.01
   LOCATION L0003528     VOLUME   579998.569 3722810.949 -38.98
   LOCATION L0003529     VOLUME   579986.377 3722810.868 -38.75
   LOCATION L0003530     VOLUME   579974.185 3722810.787 -38.53
   LOCATION L0003531     VOLUME   579961.994 3722810.707 -38.44
```

```
   LOCATION L0003532     VOLUME   579949.802 3722810.626 -38.42
   LOCATION L0003533     VOLUME   579937.610 3722810.545 -38.38
   LOCATION L0003534     VOLUME   579925.422 3722810.683 -38.28
   LOCATION L0003535     VOLUME   579913.238 3722811.125 -38.18
   LOCATION L0003536     VOLUME   579901.054 3722811.567 -38.07
   LOCATION L0003537     VOLUME   579888.870 3722812.009 -37.95
   LOCATION L0003538     VOLUME   579876.686 3722812.451 -37.79
   LOCATION L0003539     VOLUME   579864.502 3722812.893 -37.54
   LOCATION L0003540     VOLUME   579852.318 3722813.335 -37.30
   LOCATION L0003541     VOLUME   579840.134 3722813.777 -37.24
   LOCATION L0003542     VOLUME   579827.950 3722814.219 -37.21
   LOCATION L0003543     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0003544     VOLUME   579803.582 3722815.103 -37.07
   LOCATION L0003545     VOLUME   579791.398 3722815.545 -36.99
   LOCATION L0003546     VOLUME   579779.214 3722815.987 -36.83
   LOCATION L0003547     VOLUME   579767.030 3722816.429 -36.67
   LOCATION L0003548     VOLUME   579754.846 3722816.871 -36.52
   LOCATION L0003549     VOLUME   579742.662 3722817.313 -36.39
   LOCATION L0003550     VOLUME   579730.478 3722817.755 -36.27
   LOCATION L0003551     VOLUME   579718.290 3722818.032 -36.20
   LOCATION L0003552     VOLUME   579706.099 3722818.153 -36.13
   LOCATION L0003553     VOLUME   579693.907 3722818.273 -36.07
   LOCATION L0003554     VOLUME   579681.716 3722818.394 -36.02
   LOCATION L0003555     VOLUME   579669.525 3722818.515 -35.97
   LOCATION L0003556     VOLUME   579657.333 3722818.632 -35.97
   LOCATION L0003557     VOLUME   579645.141 3722818.604 -35.97
   LOCATION L0003558     VOLUME   579632.949 3722818.575 -36.01
   LOCATION L0003559     VOLUME   579620.757 3722818.546 -36.08
   LOCATION L0003560     VOLUME   579608.565 3722818.517 -36.14
   LOCATION L0003561     VOLUME   579596.373 3722818.489 -36.14
   LOCATION L0003562     VOLUME   579584.181 3722818.460 -36.14
   LOCATION L0003563     VOLUME   579571.989 3722818.431 -36.14
   LOCATION L0003564     VOLUME   579559.797 3722818.402 -36.14
   LOCATION L0003565     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0003566     VOLUME   579535.413 3722818.345 -36.14
   LOCATION L0003567     VOLUME   579523.222 3722818.316 -36.14
   LOCATION L0003568     VOLUME   579511.030 3722818.287 -36.14
   LOCATION L0003569     VOLUME   579498.838 3722818.259 -36.14
   LOCATION L0003570     VOLUME   579486.646 3722818.230 -36.14
   LOCATION L0003571     VOLUME   579474.454 3722818.201 -36.14
   LOCATION L0003572     VOLUME   579462.262 3722818.172 -36.14
   LOCATION L0003573     VOLUME   579450.070 3722818.144 -36.19
   LOCATION L0003574     VOLUME   579437.887 3722817.853 -36.24
   LOCATION L0003575     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0003576     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0003577     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0003578     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0003579     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0003580     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0003581     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0003582     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0003583     VOLUME   579328.379 3722811.085 -36.25
   LOCATION L0003584     VOLUME   579316.188 3722810.942 -36.23
   LOCATION L0003585     VOLUME   579303.997 3722810.798 -36.22
   LOCATION L0003586     VOLUME   579291.805 3722810.655 -36.22
   LOCATION L0003587     VOLUME   579279.614 3722810.511 -36.21
   LOCATION L0003588     VOLUME   579267.423 3722810.368 -36.11
   LOCATION L0003589     VOLUME   579255.232 3722810.225 -36.01
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 4.69E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ----------------------------------------------------------------
   LOCATION L0003590     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0003591     VOLUME   580104.836 3722811.157 -38.71
   LOCATION L0003592     VOLUME   580117.026 3722810.998 -38.71
   LOCATION L0003593     VOLUME   580129.217 3722810.838 -38.62
   LOCATION L0003594     VOLUME   580141.408 3722810.679 -38.50
   LOCATION L0003595     VOLUME   580153.599 3722810.520 -38.40
   LOCATION L0003596     VOLUME   580165.790 3722810.361 -38.40
   LOCATION L0003597     VOLUME   580177.981 3722810.202 -38.40
   LOCATION L0003598     VOLUME   580190.172 3722810.043 -38.39
   LOCATION L0003599     VOLUME   580202.363 3722809.884 -38.37
   LOCATION L0003600     VOLUME   580214.554 3722809.725 -38.33
   LOCATION L0003601     VOLUME   580226.745 3722809.687 -38.22
   LOCATION L0003602     VOLUME   580238.937 3722809.784 -38.11
   LOCATION L0003603     VOLUME   580251.129 3722809.881 -38.10
   LOCATION L0003604     VOLUME   580263.320 3722809.978 -38.10
   LOCATION L0003605     VOLUME   580275.512 3722810.075 -38.09
   LOCATION L0003606     VOLUME   580287.704 3722810.172 -38.07
   LOCATION L0003607     VOLUME   580299.895 3722810.269 -38.05
   LOCATION L0003608     VOLUME   580312.087 3722810.366 -37.85
   LOCATION L0003609     VOLUME   580324.278 3722810.463 -37.65
   LOCATION L0003610     VOLUME   580336.470 3722810.560 -37.53
   LOCATION L0003611     VOLUME   580348.662 3722810.657 -37.51
   LOCATION L0003612     VOLUME   580360.853 3722810.754 -37.49
   LOCATION L0003613     VOLUME   580373.045 3722810.851 -37.49
   LOCATION L0003614     VOLUME   580385.236 3722810.947 -37.49
   LOCATION L0003615     VOLUME   580397.428 3722811.044 -37.41
   LOCATION L0003616     VOLUME   580409.620 3722811.141 -37.26
   LOCATION L0003617     VOLUME   580421.811 3722811.238 -37.12
   LOCATION L0003618     VOLUME   580434.003 3722811.335 -37.02
   LOCATION L0003619     VOLUME   580446.195 3722811.432 -36.92
   LOCATION L0003620     VOLUME   580458.386 3722811.529 -36.88
   LOCATION L0003621     VOLUME   580470.578 3722811.626 -36.88
   LOCATION L0003622     VOLUME   580482.769 3722811.723 -36.88
   LOCATION L0003623     VOLUME   580494.961 3722811.820 -36.88
   LOCATION L0003624     VOLUME   580507.153 3722811.917 -36.88
   LOCATION L0003625     VOLUME   580519.344 3722812.014 -36.97
   LOCATION L0003626     VOLUME   580531.536 3722812.111 -37.09
   LOCATION L0003627     VOLUME   580543.727 3722812.208 -37.19
   LOCATION L0003628     VOLUME   580555.919 3722812.305 -37.19
   LOCATION L0003629     VOLUME   580568.111 3722812.402 -37.19
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING       POINT      579913.113  3723302.270      -36.270
** DESCRSRC Construction Truck Idling
   LOCATION OFFRDEQ      POINT      579932.850  3723278.650      -36.320
** DESCRSRC Offroad Construction Equipment
** Source Parameters **
```

```
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0003033     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003034     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003035     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003036     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003037     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003038     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003039     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003040     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003041     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003042     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003043     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003044     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003045     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003046     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003047     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003048     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003049     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003050     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003051     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003052     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003053     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003054     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003055     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003056     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003057     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003058     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003059     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003060     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003061     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003062     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003063     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003064     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003065     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003066     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003067     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003068     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003069     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003070     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003071     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003072     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003073     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003074     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003075     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003076     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003077     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003078     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003079     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003080     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003081     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003082     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003083     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003084     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003085     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003086     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003087     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003088     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003089     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003090     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003091     0.000000005427      0.00      1.70      0.85
```

```
SRCPARAM L0003092     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003093     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003094     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003095     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003096     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003097     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003098     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003099     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003100     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003101     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003102     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003103     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003104     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003105     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003106     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003107     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003108     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003109     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003110     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003111     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003112     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003113     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003114     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003115     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003116     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003117     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003118     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003119     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003120     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003121     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003122     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003123     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003124     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003125     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003126     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003127     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003128     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003129     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003130     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003131     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003132     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003133     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003134     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003135     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003136     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003137     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003138     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003139     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003140     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003141     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003142     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003143     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003144     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003145     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003146     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003147     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003148     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003149     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003150     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003151     0.000000005427      0.00      1.70      0.85
```

```
SRCPARAM L0003152     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003153     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003154     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003155     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003156     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003157     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003158     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003159     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003160     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003161     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003162     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003163     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003164     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003165     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003166     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003167     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003168     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003169     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003170     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003171     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003172     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003173     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003174     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003175     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003176     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003177     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003178     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003179     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003180     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003181     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003182     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003183     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003184     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003185     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003186     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003187     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003188     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003189     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003190     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003191     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003192     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003193     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003194     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003195     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003196     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003197     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003198     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003199     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003200     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003201     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003202     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003203     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003204     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003205     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003206     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003207     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003208     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003209     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003210     0.000000005427      0.00      1.70      0.85
SRCPARAM L0003211     0.000000005427      0.00      1.70      0.85
```

```
   SRCPARAM L0003212     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003213     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003214     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003215     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003216     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003217     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003218     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003219     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003220     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003221     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003222     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003223     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003224     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003225     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003226     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003227     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003228     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003229     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003230     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003231     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003232     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003233     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003234     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003235     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003236     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003237     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003238     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003239     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003240     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003241     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003242     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003243     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003244     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003245     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003246     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003247     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003248     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003249     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003250     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003251     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003252     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003253     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003254     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003255     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003256     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003257     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003258     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003259     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003260     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003261     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003262     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003263     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003264     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003265     0.000000005427      0.00      1.70      0.85
   SRCPARAM L0003266     0.000000005427      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0003267     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003268     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003269     0.000000005412      0.00      1.70      0.85
```

```
SRCPARAM L0003270     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003271     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003272     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003273     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003274     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003275     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003276     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003277     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003278     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003279     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003280     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003281     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003282     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003283     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003284     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003285     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003286     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003287     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003288     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003289     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003290     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003291     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003292     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003293     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003294     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003295     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003296     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003297     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003298     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003299     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003300     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003301     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003302     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003303     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003304     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003305     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003306     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003307     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003308     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003309     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003310     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003311     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003312     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003313     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003314     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003315     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003316     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003317     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003318     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003319     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003320     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003321     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003322     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003323     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003324     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003325     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003326     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003327     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003328     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003329     0.000000005412      0.00      1.70      0.85
```

```
SRCPARAM L0003330     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003331     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003332     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003333     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003334     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003335     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003336     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003337     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003338     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003339     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003340     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003341     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003342     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003343     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003344     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003345     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003346     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003347     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003348     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003349     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003350     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003351     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003352     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003353     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003354     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003355     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003356     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003357     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003358     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003359     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003360     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003361     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003362     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003363     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003364     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003365     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003366     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003367     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003368     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003369     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003370     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003371     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003372     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003373     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003374     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003375     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003376     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003377     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003378     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003379     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003380     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003381     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003382     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003383     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003384     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003385     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003386     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003387     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003388     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003389     0.000000005412      0.00      1.70      0.85
```

```
SRCPARAM L0003390     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003391     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003392     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003393     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003394     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003395     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003396     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003397     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003398     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003399     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003400     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003401     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003402     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003403     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003404     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003405     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003406     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003407     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003408     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003409     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003410     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003411     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003412     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003413     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003414     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003415     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003416     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003417     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003418     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003419     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003420     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003421     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003422     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003423     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003424     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003425     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003426     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003427     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003428     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003429     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003430     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003431     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003432     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003433     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003434     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003435     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003436     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003437     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003438     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003439     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003440     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003441     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003442     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003443     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003444     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003445     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003446     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003447     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003448     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003449     0.000000005412      0.00      1.70      0.85
```

```
SRCPARAM L0003450     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003451     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003452     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003453     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003454     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003455     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003456     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003457     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003458     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003459     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003460     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003461     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003462     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003463     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003464     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003465     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003466     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003467     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003468     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003469     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003470     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003471     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003472     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003473     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003474     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003475     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003476     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003477     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003478     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003479     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003480     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003481     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003482     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003483     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003484     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003485     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003486     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003487     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003488     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003489     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003490     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003491     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003492     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003493     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003494     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003495     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003496     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003497     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003498     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003499     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003500     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003501     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003502     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003503     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003504     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003505     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003506     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003507     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003508     0.000000005412      0.00      1.70      0.85
SRCPARAM L0003509     0.000000005412      0.00      1.70      0.85
```

```
   SRCPARAM L0003510     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003511     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003512     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003513     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003514     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003515     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003516     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003517     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003518     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003519     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003520     0.000000005412      0.00      1.70      0.85
   SRCPARAM L0003521     0.000000005412      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0003522     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003523     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003524     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003525     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003526     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003527     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003528     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003529     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003530     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003531     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003532     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003533     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003534     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003535     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003536     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003537     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003538     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003539     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003540     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003541     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003542     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003543     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003544     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003545     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003546     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003547     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003548     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003549     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003550     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003551     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003552     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003553     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003554     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003555     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003556     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003557     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003558     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003559     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003560     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003561     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003562     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003563     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003564     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003565     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003566     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003567     0.000000002941      0.00      5.67      0.85
```

```
   SRCPARAM L0003568     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003569     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003570     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003571     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003572     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003573     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003574     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003575     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003576     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003577     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003578     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003579     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003580     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003581     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003582     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003583     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003584     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003585     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003586     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003587     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003588     0.000000002941      0.00      5.67      0.85
   SRCPARAM L0003589     0.000000002941      0.00      5.67      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0003590     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003591     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003592     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003593     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003594     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003595     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003596     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003597     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003598     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003599     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003600     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003601     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003602     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003603     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003604     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003605     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003606     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003607     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003608     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003609     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003610     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003611     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003612     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003613     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003614     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003615     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003616     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003617     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003618     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003619     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003620     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003621     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003622     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003623     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003624     0.00000001172       0.00      5.67      0.85
   SRCPARAM L0003625     0.00000001172       0.00      5.67      0.85
```

```
   SRCPARAM L0003626     0.00000001172      0.00      5.67      0.85
   SRCPARAM L0003627     0.00000001172      0.00      5.67      0.85
   SRCPARAM L0003628     0.00000001172      0.00      5.67      0.85
   SRCPARAM L0003629     0.00000001172      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING        2.05E-06     3.840   366.000        50       0.1
   SRCPARAM OFFRDEQ        0.00583     3.962   366.000        50       0.1
   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Scenario 2"
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT OFFRDEQ      HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT IDLING       HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003590     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003590     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003590     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003590     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003591     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003591     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003591     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003591     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003592     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003592     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003592     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003592     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003593     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003593     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003593     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003593     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003594     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003594     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003594     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003594     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003595     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003595     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003595     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003595     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003596     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003596     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003596     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003596     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003597     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003597     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003597     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003597     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003598     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003598     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003598     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003598     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003599     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003599     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003599     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003599     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003600     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003600     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003600     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003600     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003601     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003601     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003601     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003601     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003602     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003602     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003602     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003602     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003603     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003603     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003603     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003603     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003604     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003604     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003604     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003604     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003605     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003605     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003605     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003605     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003606     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003606     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003606     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003606     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003607     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003607     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003607     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003607     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003608     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003608     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003608     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003608     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003609     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003609     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003609     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003609     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003610     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003610     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003610     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003610     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003611     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003611     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003611     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003611     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003612     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003612     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003612     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003612     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003613     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003613     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003613     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003613     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003614     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003614     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003614     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003614     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003615     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003615     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003615     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003615     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003616     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003616     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003616     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003616     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003617     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003617     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003617     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003617     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003618     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003618     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003618     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003618     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003619     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003619     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003619     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003619     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003620     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003620     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003620     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003620     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003621     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003621     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003621     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003621     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003622     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003622     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003622     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003622     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003623     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003623     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003623     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003623     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003624     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003624     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003624     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003624     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003625     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003625     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003625     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003625     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003626     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003626     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003626     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003626     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003627     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003627     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003627     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003627     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003628     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003628     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003628     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003628     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003629     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003629     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003629     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003629     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003522     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003522     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003522     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003522     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003523     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003523     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003523     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003523     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003524     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003524     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003524     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003524     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003525     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003525     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003525     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003525     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003526     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003526     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003526     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003526     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003527     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003527     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003527     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003527     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003528     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003528     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003528     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003528     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003529     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003529     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003529     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003529     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003530     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003530     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003530     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003530     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003531     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003531     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003531     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003531     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003532     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003532     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003532     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003532     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003533     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003533     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003533     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003533     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003534     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003534     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003534     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003534     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003535     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003535     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003535     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003535     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003536     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003536     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003536     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003536     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003537     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003537     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003537     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003537     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003538     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003538     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003538     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003538     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003539     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003539     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003539     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003539     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003540     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003540     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003540     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003540     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003541     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003541     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003541     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003541     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003542     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003542     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003542     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003542     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003543     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003543     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003543     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003543     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003544     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003544     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003544     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003544     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003545     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003545     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003545     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003545     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003546     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003546     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003546     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003546     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003547     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003547     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003547     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003547     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003548     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003548     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003548     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003548     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003549     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003549     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003549     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003549     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003550     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003550     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003550     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003550     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003551     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003551     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003551     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003551     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003552     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003552     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003552     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003552     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003553     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003553     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003553     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003553     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003554     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003554     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003554     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003554     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003555     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003555     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003555     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003555     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003556     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003556     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003556     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003556     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003557     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003557     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003557     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003557     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003558     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003558     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003558     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003558     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003559     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003559     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003559     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003559     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003560     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003560     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003560     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003560     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003561     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003561     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003561     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003561     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003562     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003562     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003562     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003562     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003563     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003563     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003563     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003563     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003564     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003564     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003564     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003564     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003565     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003565     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003565     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003565     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003566     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003566     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003566     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003566     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003567     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003567     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003567     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003567     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003568     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003568     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003568     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003568     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003569     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003569     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003569     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003569     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003570     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003570     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003570     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003570     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003571     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003571     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003571     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003571     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003572     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003572     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003572     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003572     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003573     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003573     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003573     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003573     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003574     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003574     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003574     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003574     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003575     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003575     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003576     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003576     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003577     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003577     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003578     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003578     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003578     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003578     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003579     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003579     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003579     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003579     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003580     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003580     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003580     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003580     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003581     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003581     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003581     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003581     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003582     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003582     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003582     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003582     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003583     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003583     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003583     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003583     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003584     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003584     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003584     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003584     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003585     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003585     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003585     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003585     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003586     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003586     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003586     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003586     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003587     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003587     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003587     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003587     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003588     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003588     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003588     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003588     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003589     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003589     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003589     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003589     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003267     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003267     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003268     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003268     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003269     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003269     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003270     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003270     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003271     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003271     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003272     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003272     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003273     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003273     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003274     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003274     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003275     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003275     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003276     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003276     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003277     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003277     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003277     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003277     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003278     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003278     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003278     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003278     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003279     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003279     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003280     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003280     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003281     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003281     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003282     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003282     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003283     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003283     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003284     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003284     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003285     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003285     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003286     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003286     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003286     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003286     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003287     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003287     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003288     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003288     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003289     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003289     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003290     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003290     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003290     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003290     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003291     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003291     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003291     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003291     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003292     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003292     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003293     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003293     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003294     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003294     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003295     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003295     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003296     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003296     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003297     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003297     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003298     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003298     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003299     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003299     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003300     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003300     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003301     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003301     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003301     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003301     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003302     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003302     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003303     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003303     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003304     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003304     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003305     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003305     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003306     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003306     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003307     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003307     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003308     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003308     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003309     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003309     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003310     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003310     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003311     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003311     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003312     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003312     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003313     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003313     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003314     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003314     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003315     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003315     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003316     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003316     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003317     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003317     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003317     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003317     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003318     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003318     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003318     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003318     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003319     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003319     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003319     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003319     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003320     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003320     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003320     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003320     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003321     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003321     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003321     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003321     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003322     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003322     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003322     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003322     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003323     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003323     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003323     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003323     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003324     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003324     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003324     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003324     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003325     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003325     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003325     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003325     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003326     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003326     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003326     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003326     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003327     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003327     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003327     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003327     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003328     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003328     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003328     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003328     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003329     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003329     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003329     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003329     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003330     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003330     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003330     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003330     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003331     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003331     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003331     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003331     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003332     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003332     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003332     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003332     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003333     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003333     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003333     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003333     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003334     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003334     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003334     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003334     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003335     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003335     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003335     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003335     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003336     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003336     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003336     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003336     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003337     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003337     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003337     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003337     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003338     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003338     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003338     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003338     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003339     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003339     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003339     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003339     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003340     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003340     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003340     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003340     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003341     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003341     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003341     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003341     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003342     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003342     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003342     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003342     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003343     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003343     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003343     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003343     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003344     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003344     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003344     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003344     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003345     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003345     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003345     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003345     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003346     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003346     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003346     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003346     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003347     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003347     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003347     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003347     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003348     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003348     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003348     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003348     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003349     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003349     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003349     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003349     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003350     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003350     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003350     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003350     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003351     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003351     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003351     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003351     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003352     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003352     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003352     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003352     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003353     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003353     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003353     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003353     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003354     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003354     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003354     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003354     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003355     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003355     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003355     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003355     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003356     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003356     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003356     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003356     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003357     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003357     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003357     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003357     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003358     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003358     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003358     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003358     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003359     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003359     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003359     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003359     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003360     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003360     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003360     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003360     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003361     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003361     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003361     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003361     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003362     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003362     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003362     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003362     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003363     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003363     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003363     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003363     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003364     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003364     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003364     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003364     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003365     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003365     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003365     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003365     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003366     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003366     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003366     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003366     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003367     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003367     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003367     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003367     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003368     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003368     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003368     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003368     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003369     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003369     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003369     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003369     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003370     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003370     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003370     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003370     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003371     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003371     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003371     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003371     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003372     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003372     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003372     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003372     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003373     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003373     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003373     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003373     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003374     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003374     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003374     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003374     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003375     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003375     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003375     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003375     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003376     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003376     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003376     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003376     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003377     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003377     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003377     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003377     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003378     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003378     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003378     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003378     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003379     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003379     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003379     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003379     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003380     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003380     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003380     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003380     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003381     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003381     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003381     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003381     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003382     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003382     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003382     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003382     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003383     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003383     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003383     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003383     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003384     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003384     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003384     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003384     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003385     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003385     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003385     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003385     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003386     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003386     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003386     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003386     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003387     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003387     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003387     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003387     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003388     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003388     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003388     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003388     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003389     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003389     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003389     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003389     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003390     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003390     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003390     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003390     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003391     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003391     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003391     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003391     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003392     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003392     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003392     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003392     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003393     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003393     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003393     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003393     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003394     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003394     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003394     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003394     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003395     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003395     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003395     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003395     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003396     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003396     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003396     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003396     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003397     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003397     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003397     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003397     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003398     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003398     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003398     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003398     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003399     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003399     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003399     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003399     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003400     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003400     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003400     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003400     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003401     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003401     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003401     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003401     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003402     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003402     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003402     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003402     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003403     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003403     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003403     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003403     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003404     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003404     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003404     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003404     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003405     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003405     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003405     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003405     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003406     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003406     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003406     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003406     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003407     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003407     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003407     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003407     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003408     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003408     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003408     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003408     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003409     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003409     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003409     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003409     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003410     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003410     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003410     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003410     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003411     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003411     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003411     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003411     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003412     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003412     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003412     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003412     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003413     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003413     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003413     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003413     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003414     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003414     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003414     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003414     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003415     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003415     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003415     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003415     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003416     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003416     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003416     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003416     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003417     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003417     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003417     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003417     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003418     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003418     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003418     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003418     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003419     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003419     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003419     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003419     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003420     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003420     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003420     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003420     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003421     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003421     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003421     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003421     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003422     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003422     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003422     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003422     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003423     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003423     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003423     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003423     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003424     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003424     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003424     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003424     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003425     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003425     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003425     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003425     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003426     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003426     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003426     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003426     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003427     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003427     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003427     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003427     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003428     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003428     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003428     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003428     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003429     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003429     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003430     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003430     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003431     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003431     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003431     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003431     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003432     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003432     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003432     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003432     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003433     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003433     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003433     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003433     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003434     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003434     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003434     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003434     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003435     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003435     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003435     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003435     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003436     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003436     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003436     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003436     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003437     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003437     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003437     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003437     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003438     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003438     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003438     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003438     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003439     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003439     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003439     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003439     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003440     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003440     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003440     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003440     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003441     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003441     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003441     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003441     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003442     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003442     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003442     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003442     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003443     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003443     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003443     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003443     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003444     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003444     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003444     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003444     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003445     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003445     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003445     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003445     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003446     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003446     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003446     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003446     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003447     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003447     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003447     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003447     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003448     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003448     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003448     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003448     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003449     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003449     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003449     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003449     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003450     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003450     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003450     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003450     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003451     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003451     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003451     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003451     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003452     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003452     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003452     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003452     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003453     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003453     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003453     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003453     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003454     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003454     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003454     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003454     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003455     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003455     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003455     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003455     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003456     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003456     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003456     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003456     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003457     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003457     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003457     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003457     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003458     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003458     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003458     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003458     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003459     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003459     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003459     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003459     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003460     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003460     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003460     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003460     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003461     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003461     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003461     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003461     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003462     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003462     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003462     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003462     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003463     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003463     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003463     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003463     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003464     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003464     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003464     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003464     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003465     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003465     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003465     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003465     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003466     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003466     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003466     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003466     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003467     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003467     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003467     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003467     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003468     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003468     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003468     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003468     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003469     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003469     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003469     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003469     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003470     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003470     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003470     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003470     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003471     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003471     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003471     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003471     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003472     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003472     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003472     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003472     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003473     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003473     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003473     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003473     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003474     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003474     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003474     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003474     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003475     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003475     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003475     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003475     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003476     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003476     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003476     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003476     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003477     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003477     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003477     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003477     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003478     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003478     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003478     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003478     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003479     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003479     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003479     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003479     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003480     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003480     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003480     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003480     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003481     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003481     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003481     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003481     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003482     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003482     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003482     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003482     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003483     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003483     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003483     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003483     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003484     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003484     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003484     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003484     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003485     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003485     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003485     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003485     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003486     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003486     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003486     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003486     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003487     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003487     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003487     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003487     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003488     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003488     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003488     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003488     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003489     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003489     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003489     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003489     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003490     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003490     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003490     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003490     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003491     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003491     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003491     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003491     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003492     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003492     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003493     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003493     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003494     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003494     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003494     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003494     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003495     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003495     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003495     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003495     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003496     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003496     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003496     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003496     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003497     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003497     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003497     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003497     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003498     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003498     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003498     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003498     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003499     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003499     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003499     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003499     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003500     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003500     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003500     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003500     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003501     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003501     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003501     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003501     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003502     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003502     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003502     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003502     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003503     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003503     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003503     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003503     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003504     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003504     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003504     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003504     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003505     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003505     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003505     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003505     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003506     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003506     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003506     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003506     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003507     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003507     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003507     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003507     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003508     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003508     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003508     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003508     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003509     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003509     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003509     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003509     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003510     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003510     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003510     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003510     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003511     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003511     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003511     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003511     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003512     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003512     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003512     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003512     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003513     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003513     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003513     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003513     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003514     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003514     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003514     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003514     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003515     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003515     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003515     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003515     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003516     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003516     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003516     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003516     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003517     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003517     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003517     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003517     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003518     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003518     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003518     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003518     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003519     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003519     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003519     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003519     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003520     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003520     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003520     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003520     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003521     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003521     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003521     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003521     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003033     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003033     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003033     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003033     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003034     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003034     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003034     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003034     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003035     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003035     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003035     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003035     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003036     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003036     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003036     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003036     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003037     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003037     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003037     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003037     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003038     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003038     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003038     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003038     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003039     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003039     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003039     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003039     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003040     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003040     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003040     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003040     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003041     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003041     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003041     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003041     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003042     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003042     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003042     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003042     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003043     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003043     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003043     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003043     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003044     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003044     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003044     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003044     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003045     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003045     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003045     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003045     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003046     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003046     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003046     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003046     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003047     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003047     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003047     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003047     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003048     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003048     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003048     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003048     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003049     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003049     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003049     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003049     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003050     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003050     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003050     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003050     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003051     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003051     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003051     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003051     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003052     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003052     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003052     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003052     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003053     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003053     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003053     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003053     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003054     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003054     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003054     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003054     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003055     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003055     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003055     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003055     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003056     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003056     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003056     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003056     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003057     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003057     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003057     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003057     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003058     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003058     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003058     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003058     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003059     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003059     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003059     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003059     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003060     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003060     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003060     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003060     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003061     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003061     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003061     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003061     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003062     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003062     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003062     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003062     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003063     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003063     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003063     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003063     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003064     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003064     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003064     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003064     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003065     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003065     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003065     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003065     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003066     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003066     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003066     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003066     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003067     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003067     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003067     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003067     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003068     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003068     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003068     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003068     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003069     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003069     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003069     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003069     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003070     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003070     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003070     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003070     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003071     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003071     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003071     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003071     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003072     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003072     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003072     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003072     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003073     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003073     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003073     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003073     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003074     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003074     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003074     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003074     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003075     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003075     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003075     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003075     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003076     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003076     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003076     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003076     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003077     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003077     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003077     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003077     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003078     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003078     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003078     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003078     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003079     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003079     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003079     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003079     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003080     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003080     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003080     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003080     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003081     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003081     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003081     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003081     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003082     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003082     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003082     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003082     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003083     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003083     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003083     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003083     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003084     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003084     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003084     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003084     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003085     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003085     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003085     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003085     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003086     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003086     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003086     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003086     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003087     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003087     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003087     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003087     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003088     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003088     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003088     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003088     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003089     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003089     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003089     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003089     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003090     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003090     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003090     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003090     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003091     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003091     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003091     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003091     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003092     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003092     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003092     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003092     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003093     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003093     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003093     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003093     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003094     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003094     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003094     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003094     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003095     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003095     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003095     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003095     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003096     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003096     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003096     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003096     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003097     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003097     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003097     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003097     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003098     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003098     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003098     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003098     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003099     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003099     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003099     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003099     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003100     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003100     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003100     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003100     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003101     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003101     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003101     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003101     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003102     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003102     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003102     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003102     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003103     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003103     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003103     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003103     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003104     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003104     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003104     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003104     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003105     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003105     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003105     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003105     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003106     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003106     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003106     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003106     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003107     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003107     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003107     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003107     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003108     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003108     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003109     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003109     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003110     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003110     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003110     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003110     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003111     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003111     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003111     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003111     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003112     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003112     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003112     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003112     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003113     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003113     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003113     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003113     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003114     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003114     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003114     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003114     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003115     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003115     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003115     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003115     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003116     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003116     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003116     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003116     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003117     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003117     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003117     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003117     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003118     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003118     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003118     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003118     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003119     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003119     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003119     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003119     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003120     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003120     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003120     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003120     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003121     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003121     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003121     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003121     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003122     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003122     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003122     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003122     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003123     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003123     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003123     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003123     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003124     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003124     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003124     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003124     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003125     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003125     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003125     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003125     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003126     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003126     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003126     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003126     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003127     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003127     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003127     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003127     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003128     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003128     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003128     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003128     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003129     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003129     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003129     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003129     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003130     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003130     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003130     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003130     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003131     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003131     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003131     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003131     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003132     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003132     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003132     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003132     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003133     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003133     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003133     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003133     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003134     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003134     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003134     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003134     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003135     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003135     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003135     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003135     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003136     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003136     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003136     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003136     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003137     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003137     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003137     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003137     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003138     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003138     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003138     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003138     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003139     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003139     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003139     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003139     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003140     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003140     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003140     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003140     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003141     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003141     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003141     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003141     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003142     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003142     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003143     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003143     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003144     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003144     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003145     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003145     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003146     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003146     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003147     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003147     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003148     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003148     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003149     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003149     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003150     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003150     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003150     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003150     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003151     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003151     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003151     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003151     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003152     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003152     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003152     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003152     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003153     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003153     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003153     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003153     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003154     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003154     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003154     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003154     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003155     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003155     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003155     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003155     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003156     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003156     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003156     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003156     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003157     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003157     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003157     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003157     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003158     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003158     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003158     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003158     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003159     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003159     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003159     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003159     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003160     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003160     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003160     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003160     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003161     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003161     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003161     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003161     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003162     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003162     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003163     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003163     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003163     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003163     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003164     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003164     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003164     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003164     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003165     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003165     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003165     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003165     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003166     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003166     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003166     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003166     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003167     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003167     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003167     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003167     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003168     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003168     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003168     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003168     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003169     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003169     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003170     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003170     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003171     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003171     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003172     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003172     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003172     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003172     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003173     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003173     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003173     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003173     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003174     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003174     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003174     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003174     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003175     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003175     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003175     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003175     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003176     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003176     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003176     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003176     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003177     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003177     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003177     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003177     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003178     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003178     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003178     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003178     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003179     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003179     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003179     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003179     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003180     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003180     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003180     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003180     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003181     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003181     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003181     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003181     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003182     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003182     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003182     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003182     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003183     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003183     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003183     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003183     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003184     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003184     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003184     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003184     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003185     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003185     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003185     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003185     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003186     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003186     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003186     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003186     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003187     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003187     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003187     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003187     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003188     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003188     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003188     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003188     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003189     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003189     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003189     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003189     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003190     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003190     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003190     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003190     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003191     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003191     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003191     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003191     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003192     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003192     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003192     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003192     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003193     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003193     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003193     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003193     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003194     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003194     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003194     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003194     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003195     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003195     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003195     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003195     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003196     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003196     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003196     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003196     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003197     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003197     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003197     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003197     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003198     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003198     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003198     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003198     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003199     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003199     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003199     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003199     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003200     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003200     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003200     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003200     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003201     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003201     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003201     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003201     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003202     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003202     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003202     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003202     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003203     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003203     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003203     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003203     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003204     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003204     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003204     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003204     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003205     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003205     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003205     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003205     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003206     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003206     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003206     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003206     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003207     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003207     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003207     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003207     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003208     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003208     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003209     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003209     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003210     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003210     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003211     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003211     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003212     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003212     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003213     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003213     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003214     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003214     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003215     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003215     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003216     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003216     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003217     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003217     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003218     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003218     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003219     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003219     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003220     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003220     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003221     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003221     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003222     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003222     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003223     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003223     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003224     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003224     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003225     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003225     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003226     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003226     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003227     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003227     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003228     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003228     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003229     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003229     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003230     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003230     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003231     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003231     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003232     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003232     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003233     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003233     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003234     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003234     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003235     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003235     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003236     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003236     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003237     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003237     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003238     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003238     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003239     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003239     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003240     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003240     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003241     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003241     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003242     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003242     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003243     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003243     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003244     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003244     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003245     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003245     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003246     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003246     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003247     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003247     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003248     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003248     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003249     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003249     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003250     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003250     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003251     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003251     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003252     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003252     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003253     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003253     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003254     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003254     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003255     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003255     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003256     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003256     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003257     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003257     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003258     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003258     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003259     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003259     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003260     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003260     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003261     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003261     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003262     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003262     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003263     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003263     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003264     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003264     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0003265     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003265     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003266     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003266     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED Const24.rou
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST CONST24.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST CONST24.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL CONST24.AD\PE00GALL.PLT 33
   SUMMFILE Const24.sum
OU FINISHED
**
**********************************
** Project Parameters
**********************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
* AERMOD (24142 ): Coachella Airport Business Park - Construction 2024-2026 DPM             10/01/25
* AERMET ( 22112):                                                                          13:25:29
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF    11 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       NUM HRS   NET ID
* _____________ _____________ _____________ _______ _______ _______ _______ _________ __________ ________
  580086.00000 3722773.00000       0.00248   -39.01   -39.01     0.00  PERIOD  ALL       00043800
  580122.00000 3722774.00000       0.00260   -38.71   -38.71     0.00  PERIOD  ALL       00043800
  580172.00000 3722775.00000       0.00268   -38.50   -38.50     0.00  PERIOD  ALL       00043800
  580242.00000 3722717.00000       0.00213   -38.40   -38.40     0.00  PERIOD  ALL       00043800
  580289.00000 3722738.00000       0.00218   -37.99   -37.99     0.00  PERIOD  ALL       00043800
  580337.00000 3722732.00000       0.00200   -37.80   -37.80     0.00  PERIOD  ALL       00043800
  579963.00000 3722704.00000       0.00141   -36.08   -36.08     0.00  PERIOD  ALL       00043800
  579927.00000 3722644.00000       0.00103   -36.33   -36.33     0.00  PERIOD  ALL       00043800
  579519.00000 3722783.00000       0.00049   -36.27   -36.27     0.00  PERIOD  ALL       00043800
  579466.00000 3722781.00000       0.00043   -36.27   -36.27     0.00  PERIOD  ALL       00043800
  579393.00000 3722779.00000       0.00036   -36.27   -36.27     0.00  PERIOD  ALL       00043800
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
```

APPENDIX E

AERMOD Model Year 2027 Construction DPM Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/1/2025
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\Const27\Const27.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park - Construction 2027 DPM
   TITLETWO PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL Const27.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.84E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0003630 VOLUME 580076.882 3722821.514 -38.77
LOCATION L0003631 VOLUME 580076.385 3722825.138 -38.76
LOCATION L0003632 VOLUME 580075.889 3722828.761 -38.74
LOCATION L0003633 VOLUME 580074.448 3722832.047 -38.73
LOCATION L0003634 VOLUME 580072.532 3722835.163 -38.71
LOCATION L0003635 VOLUME 580070.616 3722838.278 -38.71
LOCATION L0003636 VOLUME 580068.700 3722841.394 -38.71
LOCATION L0003637 VOLUME 580066.784 3722844.510 -38.71
LOCATION L0003638 VOLUME 580064.868 3722847.625 -38.71
LOCATION L0003639 VOLUME 580062.953 3722850.741 -38.71
LOCATION L0003640 VOLUME 580061.037 3722853.857 -38.71
LOCATION L0003641 VOLUME 580059.121 3722856.973 -38.72
LOCATION L0003642 VOLUME 580057.205 3722860.088 -38.74
LOCATION L0003643 VOLUME 580055.289 3722863.204 -38.76
LOCATION L0003644 VOLUME 580053.282 3722866.261 -38.78
LOCATION L0003645 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0003646 VOLUME 580049.160 3722872.303 -38.80
LOCATION L0003647 VOLUME 580047.098 3722875.325 -38.80
LOCATION L0003648 VOLUME 580045.070 3722878.368 -38.80
LOCATION L0003649 VOLUME 580043.095 3722881.447 -38.79
LOCATION L0003650 VOLUME 580041.120 3722884.525 -38.78
LOCATION L0003651 VOLUME 580039.145 3722887.604 -38.77
LOCATION L0003652 VOLUME 580037.169 3722890.682 -38.75
LOCATION L0003653 VOLUME 580035.194 3722893.760 -38.72
LOCATION L0003654 VOLUME 580033.219 3722896.839 -38.71
LOCATION L0003655 VOLUME 580031.243 3722899.917 -38.71
LOCATION L0003656 VOLUME 580029.268 3722902.995 -38.72
LOCATION L0003657 VOLUME 580027.293 3722906.074 -38.73
LOCATION L0003658 VOLUME 580025.318 3722909.152 -38.74
LOCATION L0003659 VOLUME 580023.342 3722912.230 -38.74
LOCATION L0003660 VOLUME 580021.367 3722915.309 -38.74
LOCATION L0003661 VOLUME 580019.392 3722918.387 -38.74
LOCATION L0003662 VOLUME 580017.417 3722921.466 -38.73
LOCATION L0003663 VOLUME 580015.441 3722924.544 -38.71
LOCATION L0003664 VOLUME 580013.466 3722927.622 -38.71
LOCATION L0003665 VOLUME 580011.491 3722930.701 -38.71
LOCATION L0003666 VOLUME 580009.515 3722933.779 -38.71
LOCATION L0003667 VOLUME 580007.540 3722936.857 -38.71
LOCATION L0003668 VOLUME 580005.565 3722939.936 -38.71
LOCATION L0003669 VOLUME 580003.590 3722943.014 -38.71
LOCATION L0003670 VOLUME 580001.614 3722946.092 -38.71
LOCATION L0003671 VOLUME 579999.639 3722949.171 -38.71
LOCATION L0003672 VOLUME 579997.664 3722952.249 -38.71
LOCATION L0003673 VOLUME 579995.689 3722955.328 -38.71
LOCATION L0003674 VOLUME 579993.713 3722958.406 -38.71
LOCATION L0003675 VOLUME 579991.738 3722961.484 -38.71
LOCATION L0003676 VOLUME 579989.763 3722964.563 -38.71
LOCATION L0003677 VOLUME 579987.788 3722967.641 -38.71
LOCATION L0003678 VOLUME 579985.812 3722970.719 -38.71
LOCATION L0003679 VOLUME 579983.837 3722973.798 -38.71
LOCATION L0003680 VOLUME 579981.862 3722976.876 -38.71
LOCATION L0003681 VOLUME 579979.886 3722979.955 -38.71
LOCATION L0003682 VOLUME 579977.911 3722983.033 -38.71
LOCATION L0003683 VOLUME 579975.936 3722986.111 -38.71
LOCATION L0003684 VOLUME 579973.961 3722989.190 -38.71
LOCATION L0003685 VOLUME 579971.985 3722992.268 -38.71
LOCATION L0003686 VOLUME 579970.010 3722995.346 -38.71
LOCATION L0003687 VOLUME 579968.035 3722998.425 -38.71
LOCATION L0003688 VOLUME 579966.060 3723001.503 -38.71
LOCATION L0003689 VOLUME 579964.084 3723004.581 -38.71

LOCATION L0003690 VOLUME 579962.109 3723007.660 -38.71
LOCATION L0003691 VOLUME 579960.134 3723010.738 -38.71
LOCATION L0003692 VOLUME 579958.158 3723013.817 -38.71
LOCATION L0003693 VOLUME 579956.183 3723016.895 -38.70
LOCATION L0003694 VOLUME 579954.208 3723019.973 -38.69
LOCATION L0003695 VOLUME 579952.233 3723023.052 -38.68
LOCATION L0003696 VOLUME 579950.257 3723026.130 -38.67
LOCATION L0003697 VOLUME 579948.282 3723029.208 -38.67
LOCATION L0003698 VOLUME 579946.307 3723032.287 -38.68
LOCATION L0003699 VOLUME 579944.332 3723035.365 -38.68
LOCATION L0003700 VOLUME 579942.356 3723038.443 -38.70
LOCATION L0003701 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0003702 VOLUME 579938.406 3723044.600 -38.71
LOCATION L0003703 VOLUME 579936.430 3723047.679 -38.69
LOCATION L0003704 VOLUME 579934.455 3723050.757 -38.67
LOCATION L0003705 VOLUME 579932.480 3723053.835 -38.65
LOCATION L0003706 VOLUME 579930.505 3723056.914 -38.63
LOCATION L0003707 VOLUME 579928.522 3723059.987 -38.62
LOCATION L0003708 VOLUME 579926.536 3723063.059 -38.61
LOCATION L0003709 VOLUME 579924.550 3723066.130 -38.61
LOCATION L0003710 VOLUME 579922.565 3723069.202 -38.61
LOCATION L0003711 VOLUME 579920.579 3723072.274 -38.62
LOCATION L0003712 VOLUME 579918.594 3723075.346 -38.63
LOCATION L0003713 VOLUME 579916.608 3723078.417 -38.59
LOCATION L0003714 VOLUME 579914.623 3723081.489 -38.55
LOCATION L0003715 VOLUME 579912.637 3723084.561 -38.51
LOCATION L0003716 VOLUME 579910.651 3723087.633 -38.46
LOCATION L0003717 VOLUME 579908.666 3723090.704 -38.37
LOCATION L0003718 VOLUME 579906.680 3723093.776 -38.27
LOCATION L0003719 VOLUME 579904.695 3723096.848 -38.17
LOCATION L0003720 VOLUME 579902.709 3723099.919 -38.07
LOCATION L0003721 VOLUME 579900.723 3723102.991 -37.96
LOCATION L0003722 VOLUME 579898.738 3723106.063 -37.85
LOCATION L0003723 VOLUME 579896.752 3723109.135 -37.76
LOCATION L0003724 VOLUME 579894.767 3723112.206 -37.68
LOCATION L0003725 VOLUME 579892.787 3723115.282 -37.60
LOCATION L0003726 VOLUME 579890.962 3723118.451 -37.52
LOCATION L0003727 VOLUME 579889.136 3723121.621 -37.45
LOCATION L0003728 VOLUME 579887.311 3723124.790 -37.39
LOCATION L0003729 VOLUME 579885.485 3723127.960 -37.32
LOCATION L0003730 VOLUME 579883.660 3723131.129 -37.26
LOCATION L0003731 VOLUME 579881.834 3723134.299 -37.21
LOCATION L0003732 VOLUME 579880.009 3723137.468 -37.15
LOCATION L0003733 VOLUME 579878.183 3723140.638 -37.09
LOCATION L0003734 VOLUME 579876.358 3723143.807 -37.03
LOCATION L0003735 VOLUME 579874.532 3723146.977 -36.97
LOCATION L0003736 VOLUME 579872.707 3723150.146 -36.92
LOCATION L0003737 VOLUME 579870.881 3723153.315 -36.87
LOCATION L0003738 VOLUME 579869.056 3723156.485 -36.82
LOCATION L0003739 VOLUME 579867.230 3723159.654 -36.78
LOCATION L0003740 VOLUME 579865.405 3723162.824 -36.74
LOCATION L0003741 VOLUME 579863.579 3723165.993 -36.70
LOCATION L0003742 VOLUME 579861.754 3723169.163 -36.65
LOCATION L0003743 VOLUME 579859.928 3723172.332 -36.60
LOCATION L0003744 VOLUME 579858.103 3723175.502 -36.55
LOCATION L0003745 VOLUME 579856.277 3723178.671 -36.50
LOCATION L0003746 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0003747 VOLUME 579852.626 3723185.010 -36.40
LOCATION L0003748 VOLUME 579850.801 3723188.180 -36.35
LOCATION L0003749 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0003750 VOLUME 579847.495 3723194.699 -36.25
LOCATION L0003751 VOLUME 579845.942 3723198.010 -36.23
LOCATION L0003752 VOLUME 579844.389 3723201.322 -36.22
LOCATION L0003753 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0003754 VOLUME 579841.283 3723207.945 -36.22
LOCATION L0003755 VOLUME 579839.730 3723211.256 -36.22
LOCATION L0003756 VOLUME 579838.177 3723214.568 -36.23
LOCATION L0003757 VOLUME 579836.624 3723217.879 -36.24
LOCATION L0003758 VOLUME 579835.071 3723221.191 -36.25
LOCATION L0003759 VOLUME 579833.518 3723224.502 -36.27
LOCATION L0003760 VOLUME 579831.965 3723227.814 -36.25
LOCATION L0003761 VOLUME 579830.412 3723231.125 -36.21
LOCATION L0003762 VOLUME 579828.859 3723234.437 -36.18
LOCATION L0003763 VOLUME 579827.306 3723237.749 -36.15
LOCATION L0003764 VOLUME 579825.753 3723241.060 -36.11
LOCATION L0003765 VOLUME 579824.200 3723244.372 -36.08
LOCATION L0003766 VOLUME 579822.743 3723247.722 -36.04
LOCATION L0003767 VOLUME 579821.534 3723251.174 -36.01
LOCATION L0003768 VOLUME 579820.325 3723254.626 -35.97
LOCATION L0003769 VOLUME 579819.115 3723258.078 -35.97
LOCATION L0003770 VOLUME 579817.906 3723261.530 -35.97
LOCATION L0003771 VOLUME 579816.697 3723264.982 -35.97
LOCATION L0003772 VOLUME 579815.488 3723268.434 -35.97
LOCATION L0003773 VOLUME 579814.278 3723271.886 -35.97
LOCATION L0003774 VOLUME 579813.069 3723275.338 -35.97
LOCATION L0003775 VOLUME 579811.860 3723278.790 -35.97
LOCATION L0003776 VOLUME 579810.651 3723282.242 -35.97
LOCATION L0003777 VOLUME 579809.441 3723285.694 -35.97
LOCATION L0003778 VOLUME 579808.232 3723289.145 -35.97
LOCATION L0003779 VOLUME 579807.023 3723292.597 -35.97
LOCATION L0003780 VOLUME 579805.814 3723296.049 -35.97
LOCATION L0003781 VOLUME 579804.604 3723299.501 -35.97
LOCATION L0003782 VOLUME 579803.395 3723302.953 -35.97
LOCATION L0003783 VOLUME 579802.186 3723306.405 -35.97
LOCATION L0003784 VOLUME 579800.977 3723309.857 -35.97
LOCATION L0003785 VOLUME 579799.767 3723313.309 -35.97
LOCATION L0003786 VOLUME 579798.558 3723316.761 -35.96
LOCATION L0003787 VOLUME 579797.349 3723320.213 -35.96
LOCATION L0003788 VOLUME 579796.143 3723323.666 -35.95
LOCATION L0003789 VOLUME 579794.961 3723327.127 -35.95
LOCATION L0003790 VOLUME 579793.780 3723330.589 -35.95
LOCATION L0003791 VOLUME 579792.598 3723334.050 -35.95
LOCATION L0003792 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0003793 VOLUME 579790.235 3723340.973 -35.97
LOCATION L0003794 VOLUME 579789.054 3723344.435 -35.97
LOCATION L0003795 VOLUME 579787.872 3723347.896 -35.97
LOCATION L0003796 VOLUME 579786.691 3723351.358 -35.97
LOCATION L0003797 VOLUME 579785.509 3723354.819 -35.97
LOCATION L0003798 VOLUME 579784.328 3723358.281 -35.97
LOCATION L0003799 VOLUME 579783.146 3723361.743 -35.97
LOCATION L0003800 VOLUME 579781.997 3723365.213 -35.97
LOCATION L0003801 VOLUME 579781.206 3723368.784 -35.97
LOCATION L0003802 VOLUME 579780.415 3723372.355 -35.97
LOCATION L0003803 VOLUME 579779.624 3723375.926 -35.97
LOCATION L0003804 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0003805 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0003806 VOLUME 579777.251 3723386.639 -35.97
LOCATION L0003807 VOLUME 579776.460 3723390.210 -35.97
LOCATION L0003808 VOLUME 579775.670 3723393.781 -35.97
LOCATION L0003809 VOLUME 579774.879 3723397.353 -35.97

```
   LOCATION L0003810     VOLUME   579774.088 3723400.924 -35.97
   LOCATION L0003811     VOLUME   579773.297 3723404.495 -35.97
   LOCATION L0003812     VOLUME   579772.506 3723408.066 -35.98
   LOCATION L0003813     VOLUME   579771.715 3723411.637 -35.99
   LOCATION L0003814     VOLUME   579770.924 3723415.208 -36.00
   LOCATION L0003815     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0003816     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0003817     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0003818     VOLUME   579768.026 3723429.543 -36.03
   LOCATION L0003819     VOLUME   579767.439 3723433.153 -36.03
   LOCATION L0003820     VOLUME   579766.851 3723436.763 -36.03
   LOCATION L0003821     VOLUME   579766.264 3723440.374 -36.02
   LOCATION L0003822     VOLUME   579765.676 3723443.984 -36.02
   LOCATION L0003823     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0003824     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0003825     VOLUME   579763.914 3723454.814 -36.00
   LOCATION L0003826     VOLUME   579763.327 3723458.424 -35.99
   LOCATION L0003827     VOLUME   579762.739 3723462.034 -35.99
   LOCATION L0003828     VOLUME   579762.152 3723465.644 -35.98
   LOCATION L0003829     VOLUME   579761.564 3723469.254 -35.98
   LOCATION L0003830     VOLUME   579760.977 3723472.865 -35.97
   LOCATION L0003831     VOLUME   579760.389 3723476.475 -35.97
   LOCATION L0003832     VOLUME   579759.802 3723480.085 -35.97
   LOCATION L0003833     VOLUME   579759.214 3723483.695 -35.97
   LOCATION L0003834     VOLUME   579758.627 3723487.305 -35.97
   LOCATION L0003835     VOLUME   579758.039 3723490.915 -35.97
   LOCATION L0003836     VOLUME   579757.452 3723494.525 -35.97
   LOCATION L0003837     VOLUME   579756.864 3723498.135 -35.97
   LOCATION L0003838     VOLUME   579756.277 3723501.745 -35.97
   LOCATION L0003839     VOLUME   579755.689 3723505.356 -35.97
   LOCATION L0003840     VOLUME   579755.102 3723508.966 -35.97
   LOCATION L0003841     VOLUME   579754.514 3723512.576 -35.97
   LOCATION L0003842     VOLUME   579753.927 3723516.186 -35.97
   LOCATION L0003843     VOLUME   579753.339 3723519.796 -35.97
   LOCATION L0003844     VOLUME   579752.752 3723523.406 -35.97
   LOCATION L0003845     VOLUME   579752.164 3723527.016 -35.97
   LOCATION L0003846     VOLUME   579751.577 3723530.626 -35.97
   LOCATION L0003847     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0003848     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0003849     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0003850     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0003851     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0003852     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0003853     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0003854     VOLUME   579746.877 3723559.507 -35.97
   LOCATION L0003855     VOLUME   579746.290 3723563.117 -35.97
   LOCATION L0003856     VOLUME   579745.702 3723566.727 -35.97
   LOCATION L0003857     VOLUME   579745.115 3723570.338 -35.97
   LOCATION L0003858     VOLUME   579744.527 3723573.948 -35.97
   LOCATION L0003859     VOLUME   579743.940 3723577.558 -35.97
   LOCATION L0003860     VOLUME   579743.352 3723581.168 -35.97
   LOCATION L0003861     VOLUME   579742.765 3723584.778 -35.97
   LOCATION L0003862     VOLUME   579742.177 3723588.388 -35.97
   LOCATION L0003863     VOLUME   579741.590 3723591.998 -35.97
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 2.01E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0003864     VOLUME   580084.307 3722820.832 -38.74
   LOCATION L0003865     VOLUME   580083.314 3722824.352 -38.74
   LOCATION L0003866     VOLUME   580082.322 3722827.873 -38.73
   LOCATION L0003867     VOLUME   580081.329 3722831.393 -38.72
   LOCATION L0003868     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0003869     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0003870     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0003871     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0003872     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0003873     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0003874     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0003875     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0003876     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0003877     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0003878     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0003879     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0003880     VOLUME   580063.950 3722872.317 -38.70
   LOCATION L0003881     VOLUME   580067.118 3722874.145 -38.69
   LOCATION L0003882     VOLUME   580070.285 3722875.974 -38.67
   LOCATION L0003883     VOLUME   580073.453 3722877.803 -38.66
   LOCATION L0003884     VOLUME   580076.621 3722879.632 -38.63
   LOCATION L0003885     VOLUME   580079.788 3722881.461 -38.61
   LOCATION L0003886     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0003887     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0003888     VOLUME   580089.291 3722886.947 -38.50
   LOCATION L0003889     VOLUME   580092.459 3722888.776 -38.47
   LOCATION L0003890     VOLUME   580095.626 3722890.604 -38.45
   LOCATION L0003891     VOLUME   580098.794 3722892.433 -38.43
   LOCATION L0003892     VOLUME   580101.961 3722894.262 -38.41
   LOCATION L0003893     VOLUME   580105.129 3722896.091 -38.40
   LOCATION L0003894     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0003895     VOLUME   580111.464 3722899.748 -38.40
   LOCATION L0003896     VOLUME   580114.632 3722901.577 -38.40
   LOCATION L0003897     VOLUME   580117.799 3722903.406 -38.40
   LOCATION L0003898     VOLUME   580120.967 3722905.234 -38.40
   LOCATION L0003899     VOLUME   580124.135 3722907.063 -38.39
   LOCATION L0003900     VOLUME   580127.302 3722908.892 -38.37
   LOCATION L0003901     VOLUME   580130.470 3722910.721 -38.35
   LOCATION L0003902     VOLUME   580133.637 3722912.549 -38.33
   LOCATION L0003903     VOLUME   580136.805 3722914.378 -38.30
   LOCATION L0003904     VOLUME   580139.973 3722916.207 -38.27
   LOCATION L0003905     VOLUME   580143.140 3722918.036 -38.23
   LOCATION L0003906     VOLUME   580146.308 3722919.864 -38.19
   LOCATION L0003907     VOLUME   580149.475 3722921.693 -38.15
   LOCATION L0003908     VOLUME   580151.219 3722924.671 -38.11
```

LOCATION L0003909 VOLUME 580152.339 3722928.153 -38.10
LOCATION L0003910 VOLUME 580153.458 3722931.635 -38.10
LOCATION L0003911 VOLUME 580154.577 3722935.118 -38.10
LOCATION L0003912 VOLUME 580155.629 3722938.593 -38.10
LOCATION L0003913 VOLUME 580153.817 3722941.770 -38.10
LOCATION L0003914 VOLUME 580152.004 3722944.947 -38.10
LOCATION L0003915 VOLUME 580150.192 3722948.124 -38.10
LOCATION L0003916 VOLUME 580148.379 3722951.300 -38.10
LOCATION L0003917 VOLUME 580146.567 3722954.477 -38.10
LOCATION L0003918 VOLUME 580144.754 3722957.654 -38.10
LOCATION L0003919 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0003920 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0003921 VOLUME 580139.317 3722967.185 -38.10
LOCATION L0003922 VOLUME 580137.505 3722970.362 -38.10
LOCATION L0003923 VOLUME 580135.692 3722973.539 -38.10
LOCATION L0003924 VOLUME 580133.880 3722976.716 -38.10
LOCATION L0003925 VOLUME 580132.067 3722979.893 -38.10
LOCATION L0003926 VOLUME 580130.255 3722983.070 -38.10
LOCATION L0003927 VOLUME 580128.442 3722986.247 -38.10
LOCATION L0003928 VOLUME 580126.630 3722989.424 -38.09
LOCATION L0003929 VOLUME 580124.817 3722992.601 -38.09
LOCATION L0003930 VOLUME 580123.005 3722995.778 -38.09
LOCATION L0003931 VOLUME 580121.192 3722998.955 -38.10
LOCATION L0003932 VOLUME 580119.380 3723002.132 -38.10
LOCATION L0003933 VOLUME 580117.567 3723005.309 -38.10
LOCATION L0003934 VOLUME 580115.755 3723008.486 -38.10
LOCATION L0003935 VOLUME 580113.943 3723011.663 -38.10
LOCATION L0003936 VOLUME 580112.130 3723014.839 -38.10
LOCATION L0003937 VOLUME 580110.318 3723018.016 -38.08
LOCATION L0003938 VOLUME 580108.505 3723021.193 -38.07
LOCATION L0003939 VOLUME 580106.693 3723024.370 -38.05
LOCATION L0003940 VOLUME 580104.880 3723027.547 -38.04
LOCATION L0003941 VOLUME 580103.068 3723030.724 -38.04
LOCATION L0003942 VOLUME 580101.255 3723033.901 -38.03
LOCATION L0003943 VOLUME 580099.443 3723037.078 -38.04
LOCATION L0003944 VOLUME 580097.630 3723040.255 -38.04
LOCATION L0003945 VOLUME 580095.818 3723043.432 -38.05
LOCATION L0003946 VOLUME 580094.005 3723046.609 -38.05
LOCATION L0003947 VOLUME 580092.193 3723049.786 -38.04
LOCATION L0003948 VOLUME 580090.381 3723052.963 -38.02
LOCATION L0003949 VOLUME 580088.568 3723056.140 -38.00
LOCATION L0003950 VOLUME 580086.756 3723059.317 -37.98
LOCATION L0003951 VOLUME 580084.943 3723062.494 -37.96
LOCATION L0003952 VOLUME 580083.131 3723065.671 -37.95
LOCATION L0003953 VOLUME 580081.318 3723068.848 -37.94
LOCATION L0003954 VOLUME 580079.506 3723072.025 -37.93
LOCATION L0003955 VOLUME 580077.693 3723075.202 -37.93
LOCATION L0003956 VOLUME 580075.881 3723078.378 -37.93
LOCATION L0003957 VOLUME 580074.068 3723081.555 -37.93
LOCATION L0003958 VOLUME 580072.256 3723084.732 -37.92
LOCATION L0003959 VOLUME 580070.443 3723087.909 -37.91
LOCATION L0003960 VOLUME 580068.631 3723091.086 -37.90
LOCATION L0003961 VOLUME 580066.818 3723094.263 -37.89
LOCATION L0003962 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0003963 VOLUME 580063.194 3723100.617 -37.84
LOCATION L0003964 VOLUME 580061.381 3723103.794 -37.81
LOCATION L0003965 VOLUME 580059.569 3723106.971 -37.81
LOCATION L0003966 VOLUME 580057.756 3723110.148 -37.82
LOCATION L0003967 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0003968 VOLUME 580054.131 3723116.502 -37.84

LOCATION L0003969 VOLUME 580052.319 3723119.679 -37.84
LOCATION L0003970 VOLUME 580050.506 3723122.856 -37.84
LOCATION L0003971 VOLUME 580048.694 3723126.033 -37.83
LOCATION L0003972 VOLUME 580046.881 3723129.210 -37.82
LOCATION L0003973 VOLUME 580045.069 3723132.387 -37.81
LOCATION L0003974 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0003975 VOLUME 580041.444 3723138.741 -37.78
LOCATION L0003976 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0003977 VOLUME 580037.819 3723145.094 -37.77
LOCATION L0003978 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0003979 VOLUME 580034.194 3723151.448 -37.78
LOCATION L0003980 VOLUME 580032.382 3723154.625 -37.78
LOCATION L0003981 VOLUME 580030.569 3723157.802 -37.80
LOCATION L0003982 VOLUME 580028.757 3723160.979 -37.78
LOCATION L0003983 VOLUME 580026.944 3723164.156 -37.76
LOCATION L0003984 VOLUME 580025.132 3723167.333 -37.72
LOCATION L0003985 VOLUME 580023.319 3723170.510 -37.67
LOCATION L0003986 VOLUME 580021.489 3723173.677 -37.62
LOCATION L0003987 VOLUME 580019.622 3723176.822 -37.57
LOCATION L0003988 VOLUME 580017.755 3723179.967 -37.52
LOCATION L0003989 VOLUME 580015.888 3723183.112 -37.47
LOCATION L0003990 VOLUME 580014.021 3723186.258 -37.42
LOCATION L0003991 VOLUME 580012.154 3723189.403 -37.36
LOCATION L0003992 VOLUME 580010.287 3723192.548 -37.31
LOCATION L0003993 VOLUME 580008.420 3723195.693 -37.26
LOCATION L0003994 VOLUME 580006.553 3723198.838 -37.22
LOCATION L0003995 VOLUME 580004.686 3723201.984 -37.17
LOCATION L0003996 VOLUME 580002.819 3723205.129 -37.12
LOCATION L0003997 VOLUME 580000.952 3723208.274 -37.06
LOCATION L0003998 VOLUME 579999.085 3723211.419 -37.03
LOCATION L0003999 VOLUME 579997.218 3723214.565 -37.01
LOCATION L0004000 VOLUME 579995.351 3723217.710 -37.00
LOCATION L0004001 VOLUME 579993.484 3723220.855 -36.99
LOCATION L0004002 VOLUME 579991.617 3723224.000 -36.98
LOCATION L0004003 VOLUME 579989.750 3723227.145 -36.98
LOCATION L0004004 VOLUME 579987.883 3723230.291 -36.99
LOCATION L0004005 VOLUME 579986.016 3723233.436 -36.99
LOCATION L0004006 VOLUME 579984.149 3723236.581 -36.99
LOCATION L0004007 VOLUME 579982.282 3723239.726 -36.98
LOCATION L0004008 VOLUME 579980.415 3723242.871 -36.97
LOCATION L0004009 VOLUME 579978.548 3723246.017 -36.95
LOCATION L0004010 VOLUME 579976.681 3723249.162 -36.93
LOCATION L0004011 VOLUME 579974.814 3723252.307 -36.91
LOCATION L0004012 VOLUME 579972.947 3723255.452 -36.88
LOCATION L0004013 VOLUME 579971.080 3723258.598 -36.85
LOCATION L0004014 VOLUME 579969.213 3723261.743 -36.80
LOCATION L0004015 VOLUME 579967.346 3723264.888 -36.75
LOCATION L0004016 VOLUME 579965.479 3723268.033 -36.70
LOCATION L0004017 VOLUME 579963.612 3723271.178 -36.65
LOCATION L0004018 VOLUME 579961.745 3723274.324 -36.60
LOCATION L0004019 VOLUME 579959.879 3723277.469 -36.55
LOCATION L0004020 VOLUME 579958.012 3723280.614 -36.50
LOCATION L0004021 VOLUME 579956.145 3723283.759 -36.45
LOCATION L0004022 VOLUME 579954.278 3723286.904 -36.40
LOCATION L0004023 VOLUME 579952.411 3723290.050 -36.37
LOCATION L0004024 VOLUME 579950.544 3723293.195 -36.35
LOCATION L0004025 VOLUME 579948.677 3723296.340 -36.32
LOCATION L0004026 VOLUME 579946.810 3723299.485 -36.30
LOCATION L0004027 VOLUME 579944.943 3723302.631 -36.29
LOCATION L0004028 VOLUME 579943.076 3723305.776 -36.28

LOCATION L0004029 VOLUME 579941.209 3723308.921 -36.27
LOCATION L0004030 VOLUME 579939.342 3723312.066 -36.27
LOCATION L0004031 VOLUME 579937.475 3723315.211 -36.27
LOCATION L0004032 VOLUME 579935.608 3723318.357 -36.27
LOCATION L0004033 VOLUME 579933.741 3723321.502 -36.27
LOCATION L0004034 VOLUME 579931.874 3723324.647 -36.27
LOCATION L0004035 VOLUME 579930.007 3723327.792 -36.27
LOCATION L0004036 VOLUME 579928.140 3723330.937 -36.27
LOCATION L0004037 VOLUME 579926.273 3723334.083 -36.27
LOCATION L0004038 VOLUME 579924.406 3723337.228 -36.27
LOCATION L0004039 VOLUME 579922.539 3723340.373 -36.27
LOCATION L0004040 VOLUME 579920.672 3723343.518 -36.27
LOCATION L0004041 VOLUME 579918.805 3723346.664 -36.27
LOCATION L0004042 VOLUME 579916.938 3723349.809 -36.27
LOCATION L0004043 VOLUME 579915.071 3723352.954 -36.27
LOCATION L0004044 VOLUME 579913.204 3723356.099 -36.27
LOCATION L0004045 VOLUME 579911.337 3723359.244 -36.27
LOCATION L0004046 VOLUME 579909.470 3723362.390 -36.27
LOCATION L0004047 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0004048 VOLUME 579905.871 3723368.758 -36.27
LOCATION L0004049 VOLUME 579904.085 3723371.950 -36.27
LOCATION L0004050 VOLUME 579902.299 3723375.142 -36.27
LOCATION L0004051 VOLUME 579900.513 3723378.334 -36.27
LOCATION L0004052 VOLUME 579898.728 3723381.526 -36.27
LOCATION L0004053 VOLUME 579896.942 3723384.718 -36.27
LOCATION L0004054 VOLUME 579895.156 3723387.910 -36.27
LOCATION L0004055 VOLUME 579893.370 3723391.102 -36.27
LOCATION L0004056 VOLUME 579891.584 3723394.294 -36.27
LOCATION L0004057 VOLUME 579889.799 3723397.486 -36.27
LOCATION L0004058 VOLUME 579888.013 3723400.678 -36.27
LOCATION L0004059 VOLUME 579886.227 3723403.870 -36.27
LOCATION L0004060 VOLUME 579884.441 3723407.062 -36.27
LOCATION L0004061 VOLUME 579882.655 3723410.254 -36.27
LOCATION L0004062 VOLUME 579880.870 3723413.446 -36.27
LOCATION L0004063 VOLUME 579879.084 3723416.638 -36.26
LOCATION L0004064 VOLUME 579877.298 3723419.830 -36.24
LOCATION L0004065 VOLUME 579875.512 3723423.022 -36.22
LOCATION L0004066 VOLUME 579873.727 3723426.214 -36.20
LOCATION L0004067 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0004068 VOLUME 579870.155 3723432.598 -36.17
LOCATION L0004069 VOLUME 579868.369 3723435.790 -36.15
LOCATION L0004070 VOLUME 579866.583 3723438.982 -36.13
LOCATION L0004071 VOLUME 579864.798 3723442.174 -36.11
LOCATION L0004072 VOLUME 579863.012 3723445.366 -36.09
LOCATION L0004073 VOLUME 579861.226 3723448.558 -36.07
LOCATION L0004074 VOLUME 579859.440 3723451.750 -36.06
LOCATION L0004075 VOLUME 579857.655 3723454.942 -36.04
LOCATION L0004076 VOLUME 579855.869 3723458.134 -36.02
LOCATION L0004077 VOLUME 579854.083 3723461.327 -36.00
LOCATION L0004078 VOLUME 579852.297 3723464.519 -35.98
LOCATION L0004079 VOLUME 579850.511 3723467.711 -35.99
LOCATION L0004080 VOLUME 579848.726 3723470.903 -36.04
LOCATION L0004081 VOLUME 579846.940 3723474.095 -36.08
LOCATION L0004082 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0004083 VOLUME 579843.368 3723480.479 -36.16
LOCATION L0004084 VOLUME 579841.582 3723483.671 -36.19
LOCATION L0004085 VOLUME 579839.797 3723486.863 -36.22
LOCATION L0004086 VOLUME 579838.011 3723490.055 -36.24
LOCATION L0004087 VOLUME 579836.225 3723493.247 -36.26
LOCATION L0004088 VOLUME 579834.439 3723496.439 -36.26

```
   LOCATION L0004089     VOLUME   579832.654 3723499.631 -36.23
   LOCATION L0004090     VOLUME   579830.868 3723502.823 -36.20
   LOCATION L0004091     VOLUME   579829.082 3723506.015 -36.16
   LOCATION L0004092     VOLUME   579827.296 3723509.207 -36.13
   LOCATION L0004093     VOLUME   579825.510 3723512.399 -36.10
   LOCATION L0004094     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0004095     VOLUME   579821.939 3723518.783 -36.03
   LOCATION L0004096     VOLUME   579820.153 3723521.975 -36.00
   LOCATION L0004097     VOLUME   579818.367 3723525.167 -35.97
   LOCATION L0004098     VOLUME   579816.581 3723528.359 -35.97
   LOCATION L0004099     VOLUME   579814.796 3723531.551 -35.97
   LOCATION L0004100     VOLUME   579813.010 3723534.743 -35.97
   LOCATION L0004101     VOLUME   579811.224 3723537.935 -35.97
   LOCATION L0004102     VOLUME   579809.438 3723541.127 -35.97
   LOCATION L0004103     VOLUME   579807.653 3723544.319 -35.97
   LOCATION L0004104     VOLUME   579805.867 3723547.511 -35.97
   LOCATION L0004105     VOLUME   579804.081 3723550.703 -35.97
   LOCATION L0004106     VOLUME   579802.295 3723553.895 -35.97
   LOCATION L0004107     VOLUME   579800.509 3723557.087 -35.97
   LOCATION L0004108     VOLUME   579798.724 3723560.279 -35.97
   LOCATION L0004109     VOLUME   579796.938 3723563.471 -35.97
   LOCATION L0004110     VOLUME   579795.152 3723566.663 -35.97
   LOCATION L0004111     VOLUME   579793.366 3723569.855 -35.97
   LOCATION L0004112     VOLUME   579791.580 3723573.047 -35.97
   LOCATION L0004113     VOLUME   579789.795 3723576.239 -35.97
   LOCATION L0004114     VOLUME   579788.009 3723579.431 -35.97
   LOCATION L0004115     VOLUME   579786.223 3723582.623 -35.97
   LOCATION L0004116     VOLUME   579784.437 3723585.815 -35.97
   LOCATION L0004117     VOLUME   579782.652 3723589.007 -35.97
   LOCATION L0004118     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 3.1E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0004119     VOLUME   580071.719 3722811.433 -38.86
   LOCATION L0004120     VOLUME   580059.528 3722811.353 -38.96
   LOCATION L0004121     VOLUME   580047.336 3722811.272 -38.98
   LOCATION L0004122     VOLUME   580035.144 3722811.191 -39.01
   LOCATION L0004123     VOLUME   580022.952 3722811.110 -39.01
   LOCATION L0004124     VOLUME   580010.761 3722811.030 -39.01
   LOCATION L0004125     VOLUME   579998.569 3722810.949 -38.98
   LOCATION L0004126     VOLUME   579986.377 3722810.868 -38.75
   LOCATION L0004127     VOLUME   579974.185 3722810.787 -38.53
   LOCATION L0004128     VOLUME   579961.994 3722810.707 -38.44
```

```
   LOCATION L0004129     VOLUME   579949.802 3722810.626 -38.42
   LOCATION L0004130     VOLUME   579937.610 3722810.545 -38.38
   LOCATION L0004131     VOLUME   579925.422 3722810.683 -38.28
   LOCATION L0004132     VOLUME   579913.238 3722811.125 -38.18
   LOCATION L0004133     VOLUME   579901.054 3722811.567 -38.07
   LOCATION L0004134     VOLUME   579888.870 3722812.009 -37.95
   LOCATION L0004135     VOLUME   579876.686 3722812.451 -37.79
   LOCATION L0004136     VOLUME   579864.502 3722812.893 -37.54
   LOCATION L0004137     VOLUME   579852.318 3722813.335 -37.30
   LOCATION L0004138     VOLUME   579840.134 3722813.777 -37.24
   LOCATION L0004139     VOLUME   579827.950 3722814.219 -37.21
   LOCATION L0004140     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0004141     VOLUME   579803.582 3722815.103 -37.07
   LOCATION L0004142     VOLUME   579791.398 3722815.545 -36.99
   LOCATION L0004143     VOLUME   579779.214 3722815.987 -36.83
   LOCATION L0004144     VOLUME   579767.030 3722816.429 -36.67
   LOCATION L0004145     VOLUME   579754.846 3722816.871 -36.52
   LOCATION L0004146     VOLUME   579742.662 3722817.313 -36.39
   LOCATION L0004147     VOLUME   579730.478 3722817.755 -36.27
   LOCATION L0004148     VOLUME   579718.290 3722818.032 -36.20
   LOCATION L0004149     VOLUME   579706.099 3722818.153 -36.13
   LOCATION L0004150     VOLUME   579693.907 3722818.273 -36.07
   LOCATION L0004151     VOLUME   579681.716 3722818.394 -36.02
   LOCATION L0004152     VOLUME   579669.525 3722818.515 -35.97
   LOCATION L0004153     VOLUME   579657.333 3722818.632 -35.97
   LOCATION L0004154     VOLUME   579645.141 3722818.604 -35.97
   LOCATION L0004155     VOLUME   579632.949 3722818.575 -36.01
   LOCATION L0004156     VOLUME   579620.757 3722818.546 -36.08
   LOCATION L0004157     VOLUME   579608.565 3722818.517 -36.14
   LOCATION L0004158     VOLUME   579596.373 3722818.489 -36.14
   LOCATION L0004159     VOLUME   579584.181 3722818.460 -36.14
   LOCATION L0004160     VOLUME   579571.989 3722818.431 -36.14
   LOCATION L0004161     VOLUME   579559.797 3722818.402 -36.14
   LOCATION L0004162     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0004163     VOLUME   579535.413 3722818.345 -36.14
   LOCATION L0004164     VOLUME   579523.222 3722818.316 -36.14
   LOCATION L0004165     VOLUME   579511.030 3722818.287 -36.14
   LOCATION L0004166     VOLUME   579498.838 3722818.259 -36.14
   LOCATION L0004167     VOLUME   579486.646 3722818.230 -36.14
   LOCATION L0004168     VOLUME   579474.454 3722818.201 -36.14
   LOCATION L0004169     VOLUME   579462.262 3722818.172 -36.14
   LOCATION L0004170     VOLUME   579450.070 3722818.144 -36.19
   LOCATION L0004171     VOLUME   579437.887 3722817.853 -36.24
   LOCATION L0004172     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0004173     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0004174     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0004175     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0004176     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0004177     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0004178     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0004179     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0004180     VOLUME   579328.379 3722811.085 -36.25
   LOCATION L0004181     VOLUME   579316.188 3722810.942 -36.23
   LOCATION L0004182     VOLUME   579303.997 3722810.798 -36.22
   LOCATION L0004183     VOLUME   579291.805 3722810.655 -36.22
   LOCATION L0004184     VOLUME   579279.614 3722810.511 -36.21
   LOCATION L0004185     VOLUME   579267.423 3722810.368 -36.11
   LOCATION L0004186     VOLUME   579255.232 3722810.225 -36.01
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 7.26E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0004187     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0004188     VOLUME   580104.836 3722811.157 -38.71
   LOCATION L0004189     VOLUME   580117.026 3722810.998 -38.71
   LOCATION L0004190     VOLUME   580129.217 3722810.838 -38.62
   LOCATION L0004191     VOLUME   580141.408 3722810.679 -38.50
   LOCATION L0004192     VOLUME   580153.599 3722810.520 -38.40
   LOCATION L0004193     VOLUME   580165.790 3722810.361 -38.40
   LOCATION L0004194     VOLUME   580177.981 3722810.202 -38.40
   LOCATION L0004195     VOLUME   580190.172 3722810.043 -38.39
   LOCATION L0004196     VOLUME   580202.363 3722809.884 -38.37
   LOCATION L0004197     VOLUME   580214.554 3722809.725 -38.33
   LOCATION L0004198     VOLUME   580226.745 3722809.687 -38.22
   LOCATION L0004199     VOLUME   580238.937 3722809.784 -38.11
   LOCATION L0004200     VOLUME   580251.129 3722809.881 -38.10
   LOCATION L0004201     VOLUME   580263.320 3722809.978 -38.10
   LOCATION L0004202     VOLUME   580275.512 3722810.075 -38.09
   LOCATION L0004203     VOLUME   580287.704 3722810.172 -38.07
   LOCATION L0004204     VOLUME   580299.895 3722810.269 -38.05
   LOCATION L0004205     VOLUME   580312.087 3722810.366 -37.85
   LOCATION L0004206     VOLUME   580324.278 3722810.463 -37.65
   LOCATION L0004207     VOLUME   580336.470 3722810.560 -37.53
   LOCATION L0004208     VOLUME   580348.662 3722810.657 -37.51
   LOCATION L0004209     VOLUME   580360.853 3722810.754 -37.49
   LOCATION L0004210     VOLUME   580373.045 3722810.851 -37.49
   LOCATION L0004211     VOLUME   580385.236 3722810.947 -37.49
   LOCATION L0004212     VOLUME   580397.428 3722811.044 -37.41
   LOCATION L0004213     VOLUME   580409.620 3722811.141 -37.26
   LOCATION L0004214     VOLUME   580421.811 3722811.238 -37.12
   LOCATION L0004215     VOLUME   580434.003 3722811.335 -37.02
   LOCATION L0004216     VOLUME   580446.195 3722811.432 -36.92
   LOCATION L0004217     VOLUME   580458.386 3722811.529 -36.88
   LOCATION L0004218     VOLUME   580470.578 3722811.626 -36.88
   LOCATION L0004219     VOLUME   580482.769 3722811.723 -36.88
   LOCATION L0004220     VOLUME   580494.961 3722811.820 -36.88
   LOCATION L0004221     VOLUME   580507.153 3722811.917 -36.88
   LOCATION L0004222     VOLUME   580519.344 3722812.014 -36.97
   LOCATION L0004223     VOLUME   580531.536 3722812.111 -37.09
   LOCATION L0004224     VOLUME   580543.727 3722812.208 -37.19
   LOCATION L0004225     VOLUME   580555.919 3722812.305 -37.19
   LOCATION L0004226     VOLUME   580568.111 3722812.402 -37.19
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING       POINT      579913.113  3723302.270      -36.270
** DESCRSRC Construction Truck Idling
   LOCATION OFFRDEQ      POINT      579932.850  3723278.650      -36.320
** DESCRSRC Offroad Construction Equipment
** Source Parameters **
```

```
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0003630     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003631     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003632     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003633     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003634     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003635     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003636     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003637     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003638     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003639     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003640     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003641     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003642     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003643     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003644     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003645     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003646     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003647     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003648     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003649     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003650     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003651     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003652     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003653     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003654     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003655     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003656     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003657     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003658     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003659     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003660     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003661     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003662     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003663     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003664     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003665     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003666     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003667     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003668     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003669     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003670     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003671     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003672     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003673     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003674     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003675     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003676     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003677     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003678     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003679     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003680     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003681     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003682     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003683     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003684     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003685     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003686     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003687     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003688     0.000000007863      0.00      1.70      0.85
```

```
SRCPARAM L0003689     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003690     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003691     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003692     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003693     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003694     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003695     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003696     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003697     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003698     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003699     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003700     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003701     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003702     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003703     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003704     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003705     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003706     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003707     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003708     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003709     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003710     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003711     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003712     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003713     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003714     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003715     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003716     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003717     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003718     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003719     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003720     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003721     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003722     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003723     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003724     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003725     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003726     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003727     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003728     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003729     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003730     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003731     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003732     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003733     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003734     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003735     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003736     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003737     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003738     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003739     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003740     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003741     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003742     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003743     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003744     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003745     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003746     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003747     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003748     0.000000007863      0.00      1.70      0.85
```

```
SRCPARAM L0003749     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003750     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003751     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003752     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003753     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003754     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003755     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003756     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003757     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003758     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003759     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003760     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003761     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003762     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003763     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003764     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003765     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003766     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003767     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003768     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003769     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003770     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003771     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003772     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003773     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003774     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003775     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003776     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003777     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003778     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003779     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003780     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003781     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003782     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003783     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003784     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003785     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003786     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003787     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003788     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003789     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003790     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003791     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003792     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003793     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003794     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003795     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003796     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003797     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003798     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003799     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003800     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003801     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003802     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003803     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003804     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003805     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003806     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003807     0.000000007863      0.00      1.70      0.85
SRCPARAM L0003808     0.000000007863      0.00      1.70      0.85
```

```
   SRCPARAM L0003809     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003810     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003811     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003812     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003813     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003814     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003815     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003816     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003817     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003818     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003819     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003820     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003821     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003822     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003823     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003824     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003825     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003826     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003827     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003828     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003829     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003830     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003831     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003832     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003833     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003834     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003835     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003836     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003837     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003838     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003839     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003840     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003841     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003842     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003843     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003844     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003845     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003846     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003847     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003848     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003849     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003850     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003851     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003852     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003853     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003854     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003855     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003856     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003857     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003858     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003859     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003860     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003861     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003862     0.000000007863      0.00      1.70      0.85
   SRCPARAM L0003863     0.000000007863      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0003864     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0003865     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0003866     0.000000007882      0.00      1.70      0.85
```

```
SRCPARAM L0003867     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003868     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003869     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003870     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003871     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003872     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003873     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003874     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003875     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003876     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003877     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003878     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003879     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003880     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003881     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003882     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003883     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003884     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003885     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003886     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003887     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003888     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003889     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003890     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003891     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003892     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003893     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003894     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003895     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003896     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003897     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003898     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003899     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003900     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003901     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003902     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003903     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003904     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003905     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003906     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003907     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003908     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003909     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003910     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003911     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003912     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003913     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003914     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003915     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003916     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003917     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003918     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003919     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003920     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003921     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003922     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003923     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003924     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003925     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003926     0.000000007882      0.00      1.70      0.85
```

```
SRCPARAM L0003927     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003928     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003929     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003930     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003931     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003932     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003933     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003934     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003935     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003936     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003937     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003938     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003939     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003940     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003941     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003942     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003943     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003944     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003945     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003946     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003947     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003948     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003949     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003950     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003951     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003952     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003953     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003954     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003955     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003956     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003957     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003958     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003959     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003960     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003961     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003962     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003963     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003964     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003965     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003966     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003967     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003968     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003969     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003970     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003971     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003972     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003973     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003974     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003975     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003976     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003977     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003978     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003979     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003980     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003981     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003982     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003983     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003984     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003985     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003986     0.000000007882      0.00      1.70      0.85
```

```
SRCPARAM L0003987     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003988     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003989     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003990     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003991     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003992     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003993     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003994     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003995     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003996     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003997     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003998     0.000000007882      0.00      1.70      0.85
SRCPARAM L0003999     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004000     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004001     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004002     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004003     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004004     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004005     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004006     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004007     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004008     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004009     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004010     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004011     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004012     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004013     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004014     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004015     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004016     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004017     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004018     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004019     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004020     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004021     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004022     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004023     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004024     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004025     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004026     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004027     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004028     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004029     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004030     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004031     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004032     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004033     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004034     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004035     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004036     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004037     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004038     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004039     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004040     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004041     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004042     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004043     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004044     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004045     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004046     0.000000007882      0.00      1.70      0.85
```

```
SRCPARAM L0004047     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004048     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004049     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004050     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004051     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004052     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004053     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004054     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004055     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004056     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004057     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004058     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004059     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004060     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004061     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004062     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004063     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004064     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004065     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004066     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004067     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004068     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004069     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004070     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004071     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004072     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004073     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004074     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004075     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004076     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004077     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004078     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004079     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004080     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004081     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004082     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004083     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004084     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004085     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004086     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004087     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004088     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004089     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004090     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004091     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004092     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004093     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004094     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004095     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004096     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004097     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004098     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004099     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004100     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004101     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004102     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004103     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004104     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004105     0.000000007882      0.00      1.70      0.85
SRCPARAM L0004106     0.000000007882      0.00      1.70      0.85
```

```
   SRCPARAM L0004107     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004108     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004109     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004110     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004111     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004112     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004113     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004114     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004115     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004116     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004117     0.000000007882      0.00      1.70      0.85
   SRCPARAM L0004118     0.000000007882      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0004119     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004120     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004121     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004122     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004123     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004124     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004125     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004126     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004127     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004128     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004129     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004130     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004131     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004132     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004133     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004134     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004135     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004136     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004137     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004138     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004139     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004140     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004141     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004142     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004143     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004144     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004145     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004146     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004147     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004148     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004149     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004150     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004151     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004152     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004153     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004154     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004155     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004156     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004157     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004158     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004159     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004160     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004161     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004162     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004163     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004164     0.000000004559      0.00      5.67      0.85
```

```
   SRCPARAM L0004165     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004166     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004167     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004168     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004169     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004170     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004171     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004172     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004173     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004174     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004175     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004176     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004177     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004178     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004179     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004180     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004181     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004182     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004183     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004184     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004185     0.000000004559      0.00      5.67      0.85
   SRCPARAM L0004186     0.000000004559      0.00      5.67      0.85
** --------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0004187     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004188     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004189     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004190     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004191     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004192     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004193     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004194     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004195     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004196     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004197     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004198     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004199     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004200     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004201     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004202     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004203     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004204     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004205     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004206     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004207     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004208     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004209     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004210     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004211     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004212     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004213     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004214     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004215     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004216     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004217     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004218     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004219     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004220     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004221     0.00000001815       0.00      5.67      0.85
   SRCPARAM L0004222     0.00000001815       0.00      5.67      0.85
```

```
   SRCPARAM L0004223     0.00000001815      0.00      5.67      0.85
   SRCPARAM L0004224     0.00000001815      0.00      5.67      0.85
   SRCPARAM L0004225     0.00000001815      0.00      5.67      0.85
   SRCPARAM L0004226     0.00000001815      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING        2.96E-06     3.840   366.000        50       0.1
   SRCPARAM OFFRDEQ        0.00309     3.962   366.000        50       0.1
   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Scenario 2"
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT OFFRDEQ      HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT IDLING       HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004187     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004187     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004187     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004187     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004188     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004188     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004188     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004188     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004189     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004189     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004189     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004189     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004190     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004190     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004190     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004190     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004191     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004191     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004191     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004191     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004192     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004192     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004192     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004192     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004193     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004193     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004193     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004193     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004194     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004194     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004194     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004194     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004195     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004195     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004195     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004195     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004196     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004196     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004196     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004196     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004197     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004197     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004197     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004197     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004198     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004198     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004198     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004198     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004199     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004199     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004199     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004199     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004200     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004200     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004200     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004200     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004201     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004201     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004201     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004201     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004202     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004202     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004202     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004202     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004203     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004203     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004203     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004203     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004204     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004204     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004204     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004204     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004205     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004205     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004205     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004205     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004206     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004206     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004206     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004206     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004207     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004207     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004207     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004207     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004208     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004208     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004209     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004209     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004210     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004210     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004211     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004211     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004212     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004212     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004213     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004213     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004214     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004214     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004215     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004215     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004216     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004216     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004217     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004217     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004218     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004218     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004219     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004219     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004220     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004220     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004221     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004221     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004222     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004222     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004223     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004223     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004224     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004224     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004225     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004225     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004226     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004226     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004119     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004119     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004119     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004119     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004120     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004120     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004120     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004120     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004121     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004121     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004121     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004121     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004122     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004122     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004122     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004122     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004123     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004123     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004123     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004123     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004124     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004124     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004124     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004124     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004125     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004125     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004125     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004125     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004126     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004126     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004126     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004126     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004127     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004127     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004127     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004127     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004128     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004128     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004128     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004128     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004129     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004129     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004129     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004129     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004130     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004130     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004130     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004130     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004131     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004131     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004131     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004131     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004132     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004132     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004132     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004132     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004133     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004133     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004133     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004133     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004134     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004134     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004134     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004134     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004135     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004135     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004135     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004135     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004136     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004136     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004136     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004136     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004137     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004137     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004137     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004137     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004138     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004138     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004138     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004138     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004139     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004139     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004139     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004139     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004140     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004140     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004140     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004140     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004141     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004141     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004141     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004141     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004142     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004142     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004143     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004143     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004144     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004144     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004145     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004145     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004146     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004146     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004147     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004147     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004148     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004148     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004149     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004149     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004150     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004150     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004150     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004150     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004151     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004151     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004151     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004151     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004152     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004152     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004152     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004152     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004153     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004153     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004153     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004153     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004154     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004154     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004154     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004154     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004155     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004155     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004155     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004155     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004156     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004156     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004156     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004156     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004157     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004157     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004157     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004157     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004158     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004158     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004158     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004158     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004159     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004159     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004159     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004159     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004160     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004160     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004160     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004160     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004161     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004161     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004161     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004161     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004162     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004162     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004163     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004163     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004163     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004163     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004164     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004164     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004164     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004164     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004165     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004165     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004165     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004165     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004166     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004166     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004166     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004166     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004167     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004167     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004167     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004167     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004168     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004168     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004168     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004168     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004169     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004169     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004170     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004170     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004171     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004171     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004172     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004172     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004172     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004172     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004173     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004173     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004173     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004173     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004174     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004174     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004174     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004174     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004175     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004175     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004175     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004175     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004176     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004176     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004176     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004176     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004177     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004177     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004177     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004177     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004178     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004178     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004178     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004178     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004179     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004179     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004179     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004179     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004180     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004180     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004180     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004180     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004181     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004181     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004181     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004181     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004182     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004182     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004182     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004182     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004183     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004183     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004183     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004183     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004184     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004184     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004184     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004184     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004185     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004185     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004185     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004185     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004186     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004186     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004186     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004186     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003864     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003864     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003864     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003864     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003865     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003865     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003865     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003865     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003866     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003866     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003866     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003866     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003867     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003867     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003867     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003867     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003868     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003868     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003868     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003868     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003869     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003869     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003869     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003869     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003870     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003870     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003870     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003870     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003871     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003871     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003871     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003871     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003872     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003872     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003872     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003872     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003873     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003873     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003873     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003873     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003874     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003874     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003874     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003874     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003875     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003875     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003875     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003875     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003876     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003876     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003876     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003876     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003877     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003877     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003877     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003877     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003878     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003878     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003878     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003878     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003879     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003879     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003879     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003879     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003880     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003880     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003880     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003880     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003881     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003881     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003881     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003881     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003882     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003882     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003882     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003882     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003883     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003883     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003883     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003883     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003884     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003884     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003884     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003884     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003885     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003885     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003885     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003885     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003886     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003886     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003886     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003886     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003887     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003887     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003887     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003887     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003888     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003888     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003888     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003888     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003889     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003889     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003889     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003889     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003890     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003890     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003890     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003890     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003891     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003891     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003891     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003891     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003892     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003892     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003892     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003892     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003893     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003893     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003893     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003893     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003894     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003894     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003894     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003894     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003895     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003895     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003895     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003895     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003896     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003896     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003896     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003896     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003897     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003897     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003897     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003897     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003898     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003898     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003898     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003898     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003899     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003899     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003899     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003899     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003900     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003900     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003900     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003900     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003901     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003901     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003901     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003901     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003902     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003902     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003902     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003902     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003903     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003903     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003903     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003903     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003904     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003904     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003904     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003904     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003905     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003905     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003905     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003905     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003906     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003906     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003906     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003906     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003907     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003907     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003907     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003907     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003908     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003908     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003908     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003908     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003909     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003909     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003909     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003909     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003910     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003910     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003910     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003910     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003911     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003911     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003911     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003911     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003912     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003912     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003912     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003912     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003913     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003913     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003913     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003913     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003914     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003914     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003914     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003914     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003915     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003915     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003915     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003915     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003916     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003916     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003916     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003916     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003917     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003917     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003917     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003917     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003918     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003918     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003918     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003918     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003919     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003919     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003919     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003919     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003920     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003920     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003920     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003920     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003921     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003921     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003921     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003921     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003922     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003922     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003922     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003922     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003923     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003923     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003923     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003923     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003924     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003924     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003924     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003924     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003925     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003925     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003925     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003925     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003926     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003926     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003926     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003926     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003927     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003927     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003927     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003927     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003928     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003928     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003928     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003928     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003929     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003929     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003929     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003929     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003930     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003930     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003930     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003930     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003931     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003931     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003931     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003931     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003932     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003932     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003932     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003932     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003933     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003933     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003933     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003933     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003934     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003934     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003934     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003934     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003935     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003935     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003935     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003935     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003936     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003936     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003936     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003936     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003937     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003937     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003937     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003937     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003938     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003938     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003938     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003938     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003939     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003939     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003939     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003939     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003940     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003940     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003940     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003940     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003941     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003941     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003941     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003941     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003942     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003942     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003942     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003942     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003943     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003943     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003943     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003943     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003944     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003944     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003944     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003944     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003945     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003945     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003945     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003945     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003946     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003946     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003946     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003946     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003947     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003947     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003947     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003947     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003948     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003948     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003948     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003948     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003949     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003949     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003949     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003949     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003950     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003950     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003950     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003950     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003951     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003951     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003951     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003951     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003952     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003952     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003952     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003952     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003953     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003953     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003953     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003953     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003954     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003954     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003954     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003954     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003955     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003955     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003955     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003955     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003956     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003956     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003956     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003956     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003957     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003957     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003957     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003957     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003958     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003958     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003958     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003958     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003959     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003959     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003959     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003959     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003960     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003960     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003960     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003960     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003961     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003961     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003961     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003961     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003962     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003962     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003962     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003962     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003963     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003963     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003963     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003963     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003964     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003964     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003964     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003964     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003965     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003965     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003965     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003965     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003966     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003966     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003966     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003966     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003967     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003967     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003967     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003967     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003968     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003968     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003968     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003968     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003969     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003969     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003969     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003969     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003970     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003970     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003970     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003970     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003971     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003971     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003971     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003971     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003972     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003972     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003972     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003972     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003973     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003973     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003973     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003973     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003974     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003974     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003974     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003974     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003975     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003975     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003975     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003975     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003976     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003976     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003976     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003976     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003977     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003977     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003977     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003977     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003978     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003978     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003978     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003978     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003979     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003979     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003979     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003979     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003980     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003980     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003980     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003980     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003981     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003981     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003981     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003981     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003982     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003982     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003982     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003982     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003983     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003983     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003983     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003983     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003984     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003984     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003984     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003984     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003985     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003985     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003985     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003985     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003986     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003986     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003986     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003986     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003987     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003987     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003987     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003987     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003988     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003988     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003988     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003988     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003989     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003989     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003989     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003989     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003990     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003990     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003990     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003990     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003991     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003991     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003991     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003991     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003992     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003992     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003992     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003992     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003993     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003993     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003993     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003993     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003994     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003994     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003994     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003994     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003995     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003995     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003995     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003995     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003996     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003996     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003996     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003996     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003997     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003997     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003997     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003997     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003998     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003998     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003998     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003998     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003999     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003999     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003999     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003999     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004000     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004000     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004000     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004000     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004001     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004001     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004001     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004001     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004002     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004002     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004002     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004002     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004003     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004003     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004003     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004003     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004004     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004004     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004004     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004004     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004005     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004005     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004005     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004005     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004006     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004006     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004006     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004006     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004007     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004007     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004007     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004007     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004008     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004008     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004008     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004008     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004009     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004009     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004009     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004009     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004010     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004010     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004010     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004010     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004011     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004011     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004011     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004011     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004012     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004012     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004012     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004012     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004013     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004013     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004013     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004013     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004014     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004014     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004014     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004014     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004015     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004015     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004015     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004015     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004016     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004016     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004016     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004016     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004017     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004017     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004017     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004017     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004018     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004018     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004018     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004018     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004019     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004019     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004019     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004019     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004020     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004020     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004020     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004020     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004021     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004021     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004021     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004021     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004022     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004022     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004022     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004022     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004023     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004023     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004023     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004023     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004024     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004024     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004024     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004024     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004025     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004025     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004025     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004025     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004026     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004026     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004026     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004026     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004027     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004027     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004027     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004027     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004028     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004028     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004028     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004028     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004029     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004029     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004029     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004029     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004030     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004030     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004030     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004030     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004031     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004031     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004031     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004031     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004032     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004032     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004032     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004032     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004033     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004033     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004033     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004033     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004034     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004034     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004034     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004034     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004035     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004035     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004035     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004035     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004036     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004036     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004036     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004036     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004037     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004037     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004037     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004037     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004038     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004038     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004038     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004038     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004039     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004039     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004039     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004039     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004040     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004040     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004040     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004040     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004041     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004041     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004041     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004041     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004042     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004042     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004042     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004042     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004043     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004043     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004043     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004043     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004044     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004044     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004044     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004044     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004045     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004045     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004045     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004045     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004046     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004046     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004046     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004046     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004047     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004047     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004047     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004047     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004048     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004048     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004048     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004048     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004049     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004049     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004049     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004049     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004050     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004050     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004050     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004050     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004051     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004051     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004051     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004051     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004052     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004052     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004052     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004052     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004053     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004053     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004053     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004053     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004054     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004054     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004054     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004054     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004055     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004055     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004055     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004055     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004056     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004056     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004056     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004056     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004057     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004057     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004057     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004057     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004058     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004058     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004058     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004058     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004059     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004059     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004059     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004059     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004060     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004060     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004060     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004060     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004061     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004061     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004061     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004061     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004062     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004062     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004062     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004062     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004063     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004063     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004063     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004063     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004064     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004064     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004064     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004064     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004065     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004065     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004065     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004065     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004066     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004066     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004066     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004066     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004067     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004067     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004067     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004067     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004068     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004068     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004068     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004068     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004069     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004069     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004069     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004069     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004070     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004070     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004070     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004070     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004071     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004071     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004071     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004071     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004072     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004072     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004072     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004072     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004073     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004073     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004073     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004073     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004074     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004074     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004074     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004074     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004075     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004075     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004075     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004075     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004076     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004076     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004076     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004076     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004077     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004077     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004077     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004077     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004078     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004078     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004078     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004078     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004079     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004079     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004079     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004079     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004080     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004080     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004080     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004080     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004081     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004081     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004081     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004081     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004082     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004082     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004082     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004082     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004083     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004083     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004083     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004083     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004084     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004084     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004084     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004084     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004085     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004085     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004085     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004085     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004086     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004086     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004086     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004086     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004087     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004087     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004087     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004087     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004088     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004088     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004088     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004088     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004089     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004089     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004089     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004089     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004090     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004090     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004090     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004090     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004091     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004091     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004091     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004091     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004092     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004092     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004092     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004092     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004093     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004093     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004093     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004093     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004094     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004094     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004094     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004094     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004095     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004095     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004095     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004095     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004096     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004096     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004096     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004096     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004097     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004097     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004097     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004097     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004098     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004098     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004098     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004098     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004099     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004099     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004099     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004099     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004100     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004100     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004100     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004100     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004101     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004101     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004101     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004101     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004102     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004102     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004102     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004102     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004103     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004103     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004103     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004103     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004104     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004104     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004104     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004104     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004105     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004105     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004105     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004105     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004106     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004106     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004106     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004106     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004107     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004107     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004107     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004107     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004108     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004108     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004109     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004109     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004110     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004110     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004110     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004110     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004111     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004111     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004111     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004111     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004112     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004112     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004112     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004112     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004113     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004113     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004113     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004113     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004114     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004114     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004114     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004114     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004115     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004115     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004115     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004115     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004116     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004116     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004116     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004116     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004117     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004117     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004117     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004117     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004118     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004118     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004118     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004118     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003630     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003630     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003630     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003630     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003631     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003631     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003631     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003631     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003632     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003632     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003632     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003632     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003633     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003633     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003633     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003633     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003634     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003634     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003634     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003634     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003635     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003635     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003635     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003635     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003636     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003636     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003636     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003636     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003637     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003637     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003637     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003637     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003638     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003638     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003638     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003638     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003639     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003639     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003639     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003639     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003640     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003640     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003640     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003640     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003641     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003641     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003641     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003641     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003642     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003642     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003642     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003642     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003643     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003643     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003643     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003643     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003644     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003644     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003644     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003644     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003645     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003645     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003645     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003645     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003646     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003646     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003646     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003646     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003647     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003647     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003647     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003647     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003648     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003648     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003648     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003648     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003649     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003649     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003649     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003649     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003650     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003650     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003650     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003650     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003651     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003651     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003651     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003651     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003652     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003652     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003652     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003652     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003653     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003653     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003653     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003653     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003654     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003654     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003654     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003654     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003655     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003655     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003655     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003655     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003656     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003656     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003656     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003656     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003657     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003657     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003657     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003657     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003658     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003658     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003658     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003658     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003659     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003659     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003659     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003659     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003660     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003660     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003660     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003660     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003661     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003661     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003661     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003661     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003662     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003662     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003662     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003662     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003663     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003663     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003663     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003663     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003664     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003664     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003664     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003664     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003665     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003665     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003665     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003665     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003666     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003666     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003666     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003666     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003667     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003667     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003667     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003667     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003668     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003668     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003668     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003668     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003669     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003669     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003669     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003669     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003670     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003670     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003670     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003670     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003671     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003671     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003671     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003671     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003672     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003672     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003672     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003672     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003673     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003673     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003673     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003673     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003674     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003674     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003674     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003674     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003675     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003675     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003675     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003675     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003676     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003676     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003676     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003676     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003677     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003677     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003677     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003677     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003678     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003678     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003678     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003678     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003679     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003679     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003679     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003679     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003680     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003680     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003680     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003680     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003681     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003681     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003681     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003681     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003682     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003682     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003682     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003682     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003683     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003683     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003683     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003683     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003684     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003684     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003684     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003684     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003685     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003685     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003685     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003685     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003686     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003686     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003686     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003686     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003687     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003687     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003687     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003687     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003688     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003688     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003688     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003688     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003689     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003689     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003689     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003689     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003690     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003690     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003690     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003690     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003691     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003691     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003691     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003691     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003692     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003692     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003692     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003692     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003693     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003693     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003693     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003693     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003694     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003694     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003694     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003694     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003695     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003695     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003695     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003695     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003696     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003696     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003696     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003696     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003697     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003697     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003697     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003697     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003698     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003698     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003698     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003698     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003699     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003699     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003699     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003699     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003700     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003700     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003700     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003700     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003701     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003701     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003701     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003701     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003702     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003702     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003702     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003702     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003703     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003703     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003703     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003703     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003704     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003704     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003704     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003704     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003705     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003705     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003705     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003705     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003706     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003706     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003706     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003706     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003707     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003707     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003707     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003707     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003708     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003708     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003708     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003708     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003709     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003709     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003709     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003709     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003710     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003710     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003710     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003710     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003711     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003711     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003711     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003711     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003712     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003712     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003712     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003712     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003713     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003713     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003713     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003713     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003714     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003714     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003714     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003714     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003715     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003715     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003715     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003715     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003716     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003716     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003716     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003716     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003717     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003717     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003717     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003717     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003718     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003718     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003718     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003718     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003719     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003719     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003719     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003719     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003720     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003720     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003720     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003720     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003721     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003721     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003721     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003721     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003722     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003722     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003722     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003722     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003723     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003723     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003723     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003723     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003724     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003724     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003724     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003724     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003725     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003725     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003725     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003725     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003726     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003726     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003726     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003726     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003727     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003727     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003727     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003727     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003728     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003728     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003728     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003728     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003729     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003729     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003729     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003729     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003730     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003730     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003730     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003730     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003731     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003731     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003731     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003731     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003732     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003732     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003732     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003732     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003733     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003733     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003733     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003733     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003734     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003734     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003734     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003734     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003735     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003735     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003735     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003735     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003736     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003736     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003736     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003736     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003737     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003737     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003737     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003737     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003738     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003738     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003738     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003738     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003739     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003739     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003739     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003739     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003740     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003740     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003740     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003740     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003741     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003741     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003741     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003741     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003742     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003742     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003742     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003742     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003743     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003743     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003743     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003743     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003744     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003744     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003744     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003744     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003745     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003745     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003745     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003745     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003746     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003746     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003746     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003746     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003747     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003747     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003747     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003747     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003748     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003748     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003748     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003748     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003749     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003749     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003749     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003749     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003750     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003750     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003750     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003750     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003751     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003751     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003751     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003751     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003752     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003752     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003752     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003752     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003753     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003753     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003753     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003753     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003754     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003754     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003754     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003754     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003755     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003755     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003755     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003755     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003756     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003756     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003756     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003756     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003757     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003757     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003757     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003757     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003758     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003758     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003758     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003758     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003759     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003759     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003759     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003759     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003760     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003760     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003760     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003760     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003761     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003761     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003761     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003761     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003762     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003762     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003762     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003762     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003763     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003763     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003763     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003763     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003764     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003764     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003764     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003764     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003765     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003765     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003765     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003765     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003766     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003766     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003766     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003766     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003767     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003767     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003767     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003767     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003768     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003768     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003768     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003768     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003769     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003769     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003769     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003769     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003770     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003770     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003770     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003770     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003771     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003771     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003771     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003771     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003772     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003772     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003772     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003772     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003773     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003773     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003773     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003773     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003774     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003774     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003774     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003774     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003775     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003775     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003775     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003775     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003776     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003776     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003776     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003776     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003777     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003777     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003777     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003777     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003778     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003778     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003778     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003778     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003779     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003779     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003779     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003779     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003780     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003780     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003780     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003780     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003781     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003781     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003781     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003781     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003782     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003782     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003782     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003782     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003783     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003783     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003783     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003783     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003784     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003784     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003784     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003784     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003785     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003785     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003785     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003785     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003786     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003786     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003786     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003786     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003787     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003787     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003787     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003787     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003788     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003788     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003788     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003788     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003789     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003789     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003789     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003789     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003790     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003790     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003790     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003790     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003791     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003791     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003791     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003791     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003792     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003792     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003792     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003792     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003793     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003793     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003793     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003793     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003794     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003794     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003794     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003794     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003795     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003795     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003795     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003795     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003796     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003796     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003796     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003796     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003797     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003797     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003797     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003797     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003798     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003798     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003798     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003798     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003799     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003799     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003799     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003799     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003800     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003800     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003800     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003800     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003801     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003801     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003801     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003801     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003802     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003802     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003802     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003802     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003803     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003803     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003803     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003803     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003804     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003804     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003804     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003804     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003805     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003805     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003805     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003805     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003806     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003806     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003806     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003806     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003807     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003807     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003807     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003807     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003808     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003808     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003808     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003808     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003809     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003809     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003809     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003809     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003810     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003810     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003810     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003810     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003811     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003811     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003811     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003811     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003812     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003812     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003812     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003812     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003813     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003813     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003813     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003813     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003814     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003814     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003814     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003814     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003815     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003815     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003815     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003815     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003816     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003816     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003816     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003816     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003817     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003817     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003817     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003817     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003818     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003818     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003818     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003818     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003819     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003819     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003819     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003819     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003820     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003820     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003820     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003820     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003821     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003821     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003821     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003821     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003822     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003822     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003822     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003822     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003823     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003823     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003823     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003823     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003824     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003824     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003824     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003824     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003825     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003825     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003825     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003825     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003826     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003826     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003826     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003826     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003827     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003827     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003827     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003827     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003828     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003828     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003828     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003828     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003829     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003829     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003829     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003829     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003830     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003830     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003830     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003830     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003831     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003831     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003831     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003831     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003832     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003832     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003832     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003832     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003833     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003833     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003833     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003833     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003834     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003834     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003834     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003834     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003835     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003835     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003835     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003835     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003836     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003836     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003836     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003836     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003837     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003837     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003837     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003837     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003838     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003838     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003838     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003838     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003839     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003839     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003839     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003839     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003840     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003840     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003840     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003840     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003841     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003841     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003841     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003841     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003842     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003842     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003842     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003842     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003843     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003843     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003843     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003843     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003844     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003844     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003844     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003844     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003845     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003845     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003845     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003845     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003846     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003846     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003846     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003846     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003847     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0003847     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003847     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003847     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003848     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003848     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003848     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003848     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003849     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003849     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003849     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003849     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003850     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003850     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003850     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003850     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003851     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003851     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003851     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003851     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003852     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003852     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003852     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003852     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003853     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003853     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003853     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003853     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003854     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003854     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003854     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003854     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003855     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003855     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003855     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003855     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003856     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003856     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003856     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003856     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003857     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003857     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003857     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003857     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003858     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003858     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003858     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003858     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003859     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003859     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003859     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003859     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003860     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003860     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003860     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003860     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003861     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003861     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0003861     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0003861     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0003862     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0003862     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003862     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003862     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003863     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0003863     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0003863     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0003863     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Const27.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST CONST27.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST CONST27.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL CONST27.AD\PE00GALL.PLT 33
   SUMMFILE Const27.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

* MODELING OPTIONS USED: RegDFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 11 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
580086.00000	3722773.00000	0.00133	-39.01	-39.01	0.00	PERIOD	ALL	00043800	
580122.00000	3722774.00000	0.00139	-38.71	-38.71	0.00	PERIOD	ALL	00043800	
580172.00000	3722775.00000	0.00143	-38.50	-38.50	0.00	PERIOD	ALL	00043800	
580242.00000	3722717.00000	0.00113	-38.40	-38.40	0.00	PERIOD	ALL	00043800	
580289.00000	3722738.00000	0.00116	-37.99	-37.99	0.00	PERIOD	ALL	00043800	
580337.00000	3722732.00000	0.00107	-37.80	-37.80	0.00	PERIOD	ALL	00043800	
579963.00000	3722704.00000	0.00075	-36.08	-36.08	0.00	PERIOD	ALL	00043800	
579927.00000	3722644.00000	0.00055	-36.33	-36.33	0.00	PERIOD	ALL	00043800	
579519.00000	3722783.00000	0.00026	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579466.00000	3722781.00000	0.00023	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579393.00000	3722779.00000	0.00019	-36.27	-36.27	0.00	PERIOD	ALL	00043800	

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

APPENDIX F

AERMOD Model Years 2028 – 2041 Operational DPM Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/1/2025
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\DPM28-41\DPM28-41.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park - 2028-2041 DPM
   TITLETWO PM2.5
   MODELOPT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL DPM28-41.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000138
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0003630 VOLUME 580076.882 3722821.514 -38.77
LOCATION L0003631 VOLUME 580076.385 3722825.138 -38.76
LOCATION L0003632 VOLUME 580075.889 3722828.761 -38.74
LOCATION L0003633 VOLUME 580074.448 3722832.047 -38.73
LOCATION L0003634 VOLUME 580072.532 3722835.163 -38.71
LOCATION L0003635 VOLUME 580070.616 3722838.278 -38.71
LOCATION L0003636 VOLUME 580068.700 3722841.394 -38.71
LOCATION L0003637 VOLUME 580066.784 3722844.510 -38.71
LOCATION L0003638 VOLUME 580064.868 3722847.625 -38.71
LOCATION L0003639 VOLUME 580062.953 3722850.741 -38.71
LOCATION L0003640 VOLUME 580061.037 3722853.857 -38.71
LOCATION L0003641 VOLUME 580059.121 3722856.973 -38.72
LOCATION L0003642 VOLUME 580057.205 3722860.088 -38.74
LOCATION L0003643 VOLUME 580055.289 3722863.204 -38.76
LOCATION L0003644 VOLUME 580053.282 3722866.261 -38.78
LOCATION L0003645 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0003646 VOLUME 580049.160 3722872.303 -38.80
LOCATION L0003647 VOLUME 580047.098 3722875.325 -38.80
LOCATION L0003648 VOLUME 580045.070 3722878.368 -38.80
LOCATION L0003649 VOLUME 580043.095 3722881.447 -38.79
LOCATION L0003650 VOLUME 580041.120 3722884.525 -38.78
LOCATION L0003651 VOLUME 580039.145 3722887.604 -38.77
LOCATION L0003652 VOLUME 580037.169 3722890.682 -38.75
LOCATION L0003653 VOLUME 580035.194 3722893.760 -38.72
LOCATION L0003654 VOLUME 580033.219 3722896.839 -38.71
LOCATION L0003655 VOLUME 580031.243 3722899.917 -38.71
LOCATION L0003656 VOLUME 580029.268 3722902.995 -38.72
LOCATION L0003657 VOLUME 580027.293 3722906.074 -38.73
LOCATION L0003658 VOLUME 580025.318 3722909.152 -38.74
LOCATION L0003659 VOLUME 580023.342 3722912.230 -38.74
LOCATION L0003660 VOLUME 580021.367 3722915.309 -38.74
LOCATION L0003661 VOLUME 580019.392 3722918.387 -38.74
LOCATION L0003662 VOLUME 580017.417 3722921.466 -38.73
LOCATION L0003663 VOLUME 580015.441 3722924.544 -38.71
LOCATION L0003664 VOLUME 580013.466 3722927.622 -38.71
LOCATION L0003665 VOLUME 580011.491 3722930.701 -38.71
LOCATION L0003666 VOLUME 580009.515 3722933.779 -38.71
LOCATION L0003667 VOLUME 580007.540 3722936.857 -38.71
LOCATION L0003668 VOLUME 580005.565 3722939.936 -38.71
LOCATION L0003669 VOLUME 580003.590 3722943.014 -38.71
LOCATION L0003670 VOLUME 580001.614 3722946.092 -38.71
LOCATION L0003671 VOLUME 579999.639 3722949.171 -38.71
LOCATION L0003672 VOLUME 579997.664 3722952.249 -38.71
LOCATION L0003673 VOLUME 579995.689 3722955.328 -38.71
LOCATION L0003674 VOLUME 579993.713 3722958.406 -38.71
LOCATION L0003675 VOLUME 579991.738 3722961.484 -38.71
LOCATION L0003676 VOLUME 579989.763 3722964.563 -38.71
LOCATION L0003677 VOLUME 579987.788 3722967.641 -38.71
LOCATION L0003678 VOLUME 579985.812 3722970.719 -38.71
LOCATION L0003679 VOLUME 579983.837 3722973.798 -38.71
LOCATION L0003680 VOLUME 579981.862 3722976.876 -38.71
LOCATION L0003681 VOLUME 579979.886 3722979.955 -38.71
LOCATION L0003682 VOLUME 579977.911 3722983.033 -38.71
LOCATION L0003683 VOLUME 579975.936 3722986.111 -38.71
LOCATION L0003684 VOLUME 579973.961 3722989.190 -38.71
LOCATION L0003685 VOLUME 579971.985 3722992.268 -38.71
LOCATION L0003686 VOLUME 579970.010 3722995.346 -38.71
LOCATION L0003687 VOLUME 579968.035 3722998.425 -38.71
LOCATION L0003688 VOLUME 579966.060 3723001.503 -38.71
LOCATION L0003689 VOLUME 579964.084 3723004.581 -38.71

LOCATION L0003690 VOLUME 579962.109 3723007.660 -38.71
LOCATION L0003691 VOLUME 579960.134 3723010.738 -38.71
LOCATION L0003692 VOLUME 579958.158 3723013.817 -38.71
LOCATION L0003693 VOLUME 579956.183 3723016.895 -38.70
LOCATION L0003694 VOLUME 579954.208 3723019.973 -38.69
LOCATION L0003695 VOLUME 579952.233 3723023.052 -38.68
LOCATION L0003696 VOLUME 579950.257 3723026.130 -38.67
LOCATION L0003697 VOLUME 579948.282 3723029.208 -38.67
LOCATION L0003698 VOLUME 579946.307 3723032.287 -38.68
LOCATION L0003699 VOLUME 579944.332 3723035.365 -38.68
LOCATION L0003700 VOLUME 579942.356 3723038.443 -38.70
LOCATION L0003701 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0003702 VOLUME 579938.406 3723044.600 -38.71
LOCATION L0003703 VOLUME 579936.430 3723047.679 -38.69
LOCATION L0003704 VOLUME 579934.455 3723050.757 -38.67
LOCATION L0003705 VOLUME 579932.480 3723053.835 -38.65
LOCATION L0003706 VOLUME 579930.505 3723056.914 -38.63
LOCATION L0003707 VOLUME 579928.522 3723059.987 -38.62
LOCATION L0003708 VOLUME 579926.536 3723063.059 -38.61
LOCATION L0003709 VOLUME 579924.550 3723066.130 -38.61
LOCATION L0003710 VOLUME 579922.565 3723069.202 -38.61
LOCATION L0003711 VOLUME 579920.579 3723072.274 -38.62
LOCATION L0003712 VOLUME 579918.594 3723075.346 -38.63
LOCATION L0003713 VOLUME 579916.608 3723078.417 -38.59
LOCATION L0003714 VOLUME 579914.623 3723081.489 -38.55
LOCATION L0003715 VOLUME 579912.637 3723084.561 -38.51
LOCATION L0003716 VOLUME 579910.651 3723087.633 -38.46
LOCATION L0003717 VOLUME 579908.666 3723090.704 -38.37
LOCATION L0003718 VOLUME 579906.680 3723093.776 -38.27
LOCATION L0003719 VOLUME 579904.695 3723096.848 -38.17
LOCATION L0003720 VOLUME 579902.709 3723099.919 -38.07
LOCATION L0003721 VOLUME 579900.723 3723102.991 -37.96
LOCATION L0003722 VOLUME 579898.738 3723106.063 -37.85
LOCATION L0003723 VOLUME 579896.752 3723109.135 -37.76
LOCATION L0003724 VOLUME 579894.767 3723112.206 -37.68
LOCATION L0003725 VOLUME 579892.787 3723115.282 -37.60
LOCATION L0003726 VOLUME 579890.962 3723118.451 -37.52
LOCATION L0003727 VOLUME 579889.136 3723121.621 -37.45
LOCATION L0003728 VOLUME 579887.311 3723124.790 -37.39
LOCATION L0003729 VOLUME 579885.485 3723127.960 -37.32
LOCATION L0003730 VOLUME 579883.660 3723131.129 -37.26
LOCATION L0003731 VOLUME 579881.834 3723134.299 -37.21
LOCATION L0003732 VOLUME 579880.009 3723137.468 -37.15
LOCATION L0003733 VOLUME 579878.183 3723140.638 -37.09
LOCATION L0003734 VOLUME 579876.358 3723143.807 -37.03
LOCATION L0003735 VOLUME 579874.532 3723146.977 -36.97
LOCATION L0003736 VOLUME 579872.707 3723150.146 -36.92
LOCATION L0003737 VOLUME 579870.881 3723153.315 -36.87
LOCATION L0003738 VOLUME 579869.056 3723156.485 -36.82
LOCATION L0003739 VOLUME 579867.230 3723159.654 -36.78
LOCATION L0003740 VOLUME 579865.405 3723162.824 -36.74
LOCATION L0003741 VOLUME 579863.579 3723165.993 -36.70
LOCATION L0003742 VOLUME 579861.754 3723169.163 -36.65
LOCATION L0003743 VOLUME 579859.928 3723172.332 -36.60
LOCATION L0003744 VOLUME 579858.103 3723175.502 -36.55
LOCATION L0003745 VOLUME 579856.277 3723178.671 -36.50
LOCATION L0003746 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0003747 VOLUME 579852.626 3723185.010 -36.40
LOCATION L0003748 VOLUME 579850.801 3723188.180 -36.35
LOCATION L0003749 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0003750 VOLUME 579847.495 3723194.699 -36.25
LOCATION L0003751 VOLUME 579845.942 3723198.010 -36.23
LOCATION L0003752 VOLUME 579844.389 3723201.322 -36.22
LOCATION L0003753 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0003754 VOLUME 579841.283 3723207.945 -36.22
LOCATION L0003755 VOLUME 579839.730 3723211.256 -36.22
LOCATION L0003756 VOLUME 579838.177 3723214.568 -36.23
LOCATION L0003757 VOLUME 579836.624 3723217.879 -36.24
LOCATION L0003758 VOLUME 579835.071 3723221.191 -36.25
LOCATION L0003759 VOLUME 579833.518 3723224.502 -36.27
LOCATION L0003760 VOLUME 579831.965 3723227.814 -36.25
LOCATION L0003761 VOLUME 579830.412 3723231.125 -36.21
LOCATION L0003762 VOLUME 579828.859 3723234.437 -36.18
LOCATION L0003763 VOLUME 579827.306 3723237.749 -36.15
LOCATION L0003764 VOLUME 579825.753 3723241.060 -36.11
LOCATION L0003765 VOLUME 579824.200 3723244.372 -36.08
LOCATION L0003766 VOLUME 579822.743 3723247.722 -36.04
LOCATION L0003767 VOLUME 579821.534 3723251.174 -36.01
LOCATION L0003768 VOLUME 579820.325 3723254.626 -35.97
LOCATION L0003769 VOLUME 579819.115 3723258.078 -35.97
LOCATION L0003770 VOLUME 579817.906 3723261.530 -35.97
LOCATION L0003771 VOLUME 579816.697 3723264.982 -35.97
LOCATION L0003772 VOLUME 579815.488 3723268.434 -35.97
LOCATION L0003773 VOLUME 579814.278 3723271.886 -35.97
LOCATION L0003774 VOLUME 579813.069 3723275.338 -35.97
LOCATION L0003775 VOLUME 579811.860 3723278.790 -35.97
LOCATION L0003776 VOLUME 579810.651 3723282.242 -35.97
LOCATION L0003777 VOLUME 579809.441 3723285.694 -35.97
LOCATION L0003778 VOLUME 579808.232 3723289.145 -35.97
LOCATION L0003779 VOLUME 579807.023 3723292.597 -35.97
LOCATION L0003780 VOLUME 579805.814 3723296.049 -35.97
LOCATION L0003781 VOLUME 579804.604 3723299.501 -35.97
LOCATION L0003782 VOLUME 579803.395 3723302.953 -35.97
LOCATION L0003783 VOLUME 579802.186 3723306.405 -35.97
LOCATION L0003784 VOLUME 579800.977 3723309.857 -35.97
LOCATION L0003785 VOLUME 579799.767 3723313.309 -35.97
LOCATION L0003786 VOLUME 579798.558 3723316.761 -35.96
LOCATION L0003787 VOLUME 579797.349 3723320.213 -35.96
LOCATION L0003788 VOLUME 579796.143 3723323.666 -35.95
LOCATION L0003789 VOLUME 579794.961 3723327.127 -35.95
LOCATION L0003790 VOLUME 579793.780 3723330.589 -35.95
LOCATION L0003791 VOLUME 579792.598 3723334.050 -35.95
LOCATION L0003792 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0003793 VOLUME 579790.235 3723340.973 -35.97
LOCATION L0003794 VOLUME 579789.054 3723344.435 -35.97
LOCATION L0003795 VOLUME 579787.872 3723347.896 -35.97
LOCATION L0003796 VOLUME 579786.691 3723351.358 -35.97
LOCATION L0003797 VOLUME 579785.509 3723354.819 -35.97
LOCATION L0003798 VOLUME 579784.328 3723358.281 -35.97
LOCATION L0003799 VOLUME 579783.146 3723361.743 -35.97
LOCATION L0003800 VOLUME 579781.997 3723365.213 -35.97
LOCATION L0003801 VOLUME 579781.206 3723368.784 -35.97
LOCATION L0003802 VOLUME 579780.415 3723372.355 -35.97
LOCATION L0003803 VOLUME 579779.624 3723375.926 -35.97
LOCATION L0003804 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0003805 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0003806 VOLUME 579777.251 3723386.639 -35.97
LOCATION L0003807 VOLUME 579776.460 3723390.210 -35.97
LOCATION L0003808 VOLUME 579775.670 3723393.781 -35.97
LOCATION L0003809 VOLUME 579774.879 3723397.353 -35.97

```
   LOCATION L0003810     VOLUME   579774.088 3723400.924 -35.97
   LOCATION L0003811     VOLUME   579773.297 3723404.495 -35.97
   LOCATION L0003812     VOLUME   579772.506 3723408.066 -35.98
   LOCATION L0003813     VOLUME   579771.715 3723411.637 -35.99
   LOCATION L0003814     VOLUME   579770.924 3723415.208 -36.00
   LOCATION L0003815     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0003816     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0003817     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0003818     VOLUME   579768.026 3723429.543 -36.03
   LOCATION L0003819     VOLUME   579767.439 3723433.153 -36.03
   LOCATION L0003820     VOLUME   579766.851 3723436.763 -36.03
   LOCATION L0003821     VOLUME   579766.264 3723440.374 -36.02
   LOCATION L0003822     VOLUME   579765.676 3723443.984 -36.02
   LOCATION L0003823     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0003824     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0003825     VOLUME   579763.914 3723454.814 -36.00
   LOCATION L0003826     VOLUME   579763.327 3723458.424 -35.99
   LOCATION L0003827     VOLUME   579762.739 3723462.034 -35.99
   LOCATION L0003828     VOLUME   579762.152 3723465.644 -35.98
   LOCATION L0003829     VOLUME   579761.564 3723469.254 -35.98
   LOCATION L0003830     VOLUME   579760.977 3723472.865 -35.97
   LOCATION L0003831     VOLUME   579760.389 3723476.475 -35.97
   LOCATION L0003832     VOLUME   579759.802 3723480.085 -35.97
   LOCATION L0003833     VOLUME   579759.214 3723483.695 -35.97
   LOCATION L0003834     VOLUME   579758.627 3723487.305 -35.97
   LOCATION L0003835     VOLUME   579758.039 3723490.915 -35.97
   LOCATION L0003836     VOLUME   579757.452 3723494.525 -35.97
   LOCATION L0003837     VOLUME   579756.864 3723498.135 -35.97
   LOCATION L0003838     VOLUME   579756.277 3723501.745 -35.97
   LOCATION L0003839     VOLUME   579755.689 3723505.356 -35.97
   LOCATION L0003840     VOLUME   579755.102 3723508.966 -35.97
   LOCATION L0003841     VOLUME   579754.514 3723512.576 -35.97
   LOCATION L0003842     VOLUME   579753.927 3723516.186 -35.97
   LOCATION L0003843     VOLUME   579753.339 3723519.796 -35.97
   LOCATION L0003844     VOLUME   579752.752 3723523.406 -35.97
   LOCATION L0003845     VOLUME   579752.164 3723527.016 -35.97
   LOCATION L0003846     VOLUME   579751.577 3723530.626 -35.97
   LOCATION L0003847     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0003848     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0003849     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0003850     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0003851     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0003852     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0003853     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0003854     VOLUME   579746.877 3723559.507 -35.97
   LOCATION L0003855     VOLUME   579746.290 3723563.117 -35.97
   LOCATION L0003856     VOLUME   579745.702 3723566.727 -35.97
   LOCATION L0003857     VOLUME   579745.115 3723570.338 -35.97
   LOCATION L0003858     VOLUME   579744.527 3723573.948 -35.97
   LOCATION L0003859     VOLUME   579743.940 3723577.558 -35.97
   LOCATION L0003860     VOLUME   579743.352 3723581.168 -35.97
   LOCATION L0003861     VOLUME   579742.765 3723584.778 -35.97
   LOCATION L0003862     VOLUME   579742.177 3723588.388 -35.97
   LOCATION L0003863     VOLUME   579741.590 3723591.998 -35.97
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000151
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0003864     VOLUME   580084.307 3722820.832 -38.74
   LOCATION L0003865     VOLUME   580083.314 3722824.352 -38.74
   LOCATION L0003866     VOLUME   580082.322 3722827.873 -38.73
   LOCATION L0003867     VOLUME   580081.329 3722831.393 -38.72
   LOCATION L0003868     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0003869     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0003870     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0003871     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0003872     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0003873     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0003874     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0003875     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0003876     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0003877     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0003878     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0003879     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0003880     VOLUME   580063.950 3722872.317 -38.70
   LOCATION L0003881     VOLUME   580067.118 3722874.145 -38.69
   LOCATION L0003882     VOLUME   580070.285 3722875.974 -38.67
   LOCATION L0003883     VOLUME   580073.453 3722877.803 -38.66
   LOCATION L0003884     VOLUME   580076.621 3722879.632 -38.63
   LOCATION L0003885     VOLUME   580079.788 3722881.461 -38.61
   LOCATION L0003886     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0003887     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0003888     VOLUME   580089.291 3722886.947 -38.50
   LOCATION L0003889     VOLUME   580092.459 3722888.776 -38.47
   LOCATION L0003890     VOLUME   580095.626 3722890.604 -38.45
   LOCATION L0003891     VOLUME   580098.794 3722892.433 -38.43
   LOCATION L0003892     VOLUME   580101.961 3722894.262 -38.41
   LOCATION L0003893     VOLUME   580105.129 3722896.091 -38.40
   LOCATION L0003894     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0003895     VOLUME   580111.464 3722899.748 -38.40
   LOCATION L0003896     VOLUME   580114.632 3722901.577 -38.40
   LOCATION L0003897     VOLUME   580117.799 3722903.406 -38.40
   LOCATION L0003898     VOLUME   580120.967 3722905.234 -38.40
   LOCATION L0003899     VOLUME   580124.135 3722907.063 -38.39
   LOCATION L0003900     VOLUME   580127.302 3722908.892 -38.37
   LOCATION L0003901     VOLUME   580130.470 3722910.721 -38.35
   LOCATION L0003902     VOLUME   580133.637 3722912.549 -38.33
   LOCATION L0003903     VOLUME   580136.805 3722914.378 -38.30
   LOCATION L0003904     VOLUME   580139.973 3722916.207 -38.27
   LOCATION L0003905     VOLUME   580143.140 3722918.036 -38.23
   LOCATION L0003906     VOLUME   580146.308 3722919.864 -38.19
   LOCATION L0003907     VOLUME   580149.475 3722921.693 -38.15
   LOCATION L0003908     VOLUME   580151.219 3722924.671 -38.11
```

LOCATION L0003909 VOLUME 580152.339 3722928.153 -38.10
LOCATION L0003910 VOLUME 580153.458 3722931.635 -38.10
LOCATION L0003911 VOLUME 580154.577 3722935.118 -38.10
LOCATION L0003912 VOLUME 580155.629 3722938.593 -38.10
LOCATION L0003913 VOLUME 580153.817 3722941.770 -38.10
LOCATION L0003914 VOLUME 580152.004 3722944.947 -38.10
LOCATION L0003915 VOLUME 580150.192 3722948.124 -38.10
LOCATION L0003916 VOLUME 580148.379 3722951.300 -38.10
LOCATION L0003917 VOLUME 580146.567 3722954.477 -38.10
LOCATION L0003918 VOLUME 580144.754 3722957.654 -38.10
LOCATION L0003919 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0003920 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0003921 VOLUME 580139.317 3722967.185 -38.10
LOCATION L0003922 VOLUME 580137.505 3722970.362 -38.10
LOCATION L0003923 VOLUME 580135.692 3722973.539 -38.10
LOCATION L0003924 VOLUME 580133.880 3722976.716 -38.10
LOCATION L0003925 VOLUME 580132.067 3722979.893 -38.10
LOCATION L0003926 VOLUME 580130.255 3722983.070 -38.10
LOCATION L0003927 VOLUME 580128.442 3722986.247 -38.10
LOCATION L0003928 VOLUME 580126.630 3722989.424 -38.09
LOCATION L0003929 VOLUME 580124.817 3722992.601 -38.09
LOCATION L0003930 VOLUME 580123.005 3722995.778 -38.09
LOCATION L0003931 VOLUME 580121.192 3722998.955 -38.10
LOCATION L0003932 VOLUME 580119.380 3723002.132 -38.10
LOCATION L0003933 VOLUME 580117.567 3723005.309 -38.10
LOCATION L0003934 VOLUME 580115.755 3723008.486 -38.10
LOCATION L0003935 VOLUME 580113.943 3723011.663 -38.10
LOCATION L0003936 VOLUME 580112.130 3723014.839 -38.10
LOCATION L0003937 VOLUME 580110.318 3723018.016 -38.08
LOCATION L0003938 VOLUME 580108.505 3723021.193 -38.07
LOCATION L0003939 VOLUME 580106.693 3723024.370 -38.05
LOCATION L0003940 VOLUME 580104.880 3723027.547 -38.04
LOCATION L0003941 VOLUME 580103.068 3723030.724 -38.04
LOCATION L0003942 VOLUME 580101.255 3723033.901 -38.03
LOCATION L0003943 VOLUME 580099.443 3723037.078 -38.04
LOCATION L0003944 VOLUME 580097.630 3723040.255 -38.04
LOCATION L0003945 VOLUME 580095.818 3723043.432 -38.05
LOCATION L0003946 VOLUME 580094.005 3723046.609 -38.05
LOCATION L0003947 VOLUME 580092.193 3723049.786 -38.04
LOCATION L0003948 VOLUME 580090.381 3723052.963 -38.02
LOCATION L0003949 VOLUME 580088.568 3723056.140 -38.00
LOCATION L0003950 VOLUME 580086.756 3723059.317 -37.98
LOCATION L0003951 VOLUME 580084.943 3723062.494 -37.96
LOCATION L0003952 VOLUME 580083.131 3723065.671 -37.95
LOCATION L0003953 VOLUME 580081.318 3723068.848 -37.94
LOCATION L0003954 VOLUME 580079.506 3723072.025 -37.93
LOCATION L0003955 VOLUME 580077.693 3723075.202 -37.93
LOCATION L0003956 VOLUME 580075.881 3723078.378 -37.93
LOCATION L0003957 VOLUME 580074.068 3723081.555 -37.93
LOCATION L0003958 VOLUME 580072.256 3723084.732 -37.92
LOCATION L0003959 VOLUME 580070.443 3723087.909 -37.91
LOCATION L0003960 VOLUME 580068.631 3723091.086 -37.90
LOCATION L0003961 VOLUME 580066.818 3723094.263 -37.89
LOCATION L0003962 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0003963 VOLUME 580063.194 3723100.617 -37.84
LOCATION L0003964 VOLUME 580061.381 3723103.794 -37.81
LOCATION L0003965 VOLUME 580059.569 3723106.971 -37.81
LOCATION L0003966 VOLUME 580057.756 3723110.148 -37.82
LOCATION L0003967 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0003968 VOLUME 580054.131 3723116.502 -37.84

LOCATION L0003969 VOLUME 580052.319 3723119.679 -37.84
LOCATION L0003970 VOLUME 580050.506 3723122.856 -37.84
LOCATION L0003971 VOLUME 580048.694 3723126.033 -37.83
LOCATION L0003972 VOLUME 580046.881 3723129.210 -37.82
LOCATION L0003973 VOLUME 580045.069 3723132.387 -37.81
LOCATION L0003974 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0003975 VOLUME 580041.444 3723138.741 -37.78
LOCATION L0003976 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0003977 VOLUME 580037.819 3723145.094 -37.77
LOCATION L0003978 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0003979 VOLUME 580034.194 3723151.448 -37.78
LOCATION L0003980 VOLUME 580032.382 3723154.625 -37.78
LOCATION L0003981 VOLUME 580030.569 3723157.802 -37.80
LOCATION L0003982 VOLUME 580028.757 3723160.979 -37.78
LOCATION L0003983 VOLUME 580026.944 3723164.156 -37.76
LOCATION L0003984 VOLUME 580025.132 3723167.333 -37.72
LOCATION L0003985 VOLUME 580023.319 3723170.510 -37.67
LOCATION L0003986 VOLUME 580021.489 3723173.677 -37.62
LOCATION L0003987 VOLUME 580019.622 3723176.822 -37.57
LOCATION L0003988 VOLUME 580017.755 3723179.967 -37.52
LOCATION L0003989 VOLUME 580015.888 3723183.112 -37.47
LOCATION L0003990 VOLUME 580014.021 3723186.258 -37.42
LOCATION L0003991 VOLUME 580012.154 3723189.403 -37.36
LOCATION L0003992 VOLUME 580010.287 3723192.548 -37.31
LOCATION L0003993 VOLUME 580008.420 3723195.693 -37.26
LOCATION L0003994 VOLUME 580006.553 3723198.838 -37.22
LOCATION L0003995 VOLUME 580004.686 3723201.984 -37.17
LOCATION L0003996 VOLUME 580002.819 3723205.129 -37.12
LOCATION L0003997 VOLUME 580000.952 3723208.274 -37.06
LOCATION L0003998 VOLUME 579999.085 3723211.419 -37.03
LOCATION L0003999 VOLUME 579997.218 3723214.565 -37.01
LOCATION L0004000 VOLUME 579995.351 3723217.710 -37.00
LOCATION L0004001 VOLUME 579993.484 3723220.855 -36.99
LOCATION L0004002 VOLUME 579991.617 3723224.000 -36.98
LOCATION L0004003 VOLUME 579989.750 3723227.145 -36.98
LOCATION L0004004 VOLUME 579987.883 3723230.291 -36.99
LOCATION L0004005 VOLUME 579986.016 3723233.436 -36.99
LOCATION L0004006 VOLUME 579984.149 3723236.581 -36.99
LOCATION L0004007 VOLUME 579982.282 3723239.726 -36.98
LOCATION L0004008 VOLUME 579980.415 3723242.871 -36.97
LOCATION L0004009 VOLUME 579978.548 3723246.017 -36.95
LOCATION L0004010 VOLUME 579976.681 3723249.162 -36.93
LOCATION L0004011 VOLUME 579974.814 3723252.307 -36.91
LOCATION L0004012 VOLUME 579972.947 3723255.452 -36.88
LOCATION L0004013 VOLUME 579971.080 3723258.598 -36.85
LOCATION L0004014 VOLUME 579969.213 3723261.743 -36.80
LOCATION L0004015 VOLUME 579967.346 3723264.888 -36.75
LOCATION L0004016 VOLUME 579965.479 3723268.033 -36.70
LOCATION L0004017 VOLUME 579963.612 3723271.178 -36.65
LOCATION L0004018 VOLUME 579961.745 3723274.324 -36.60
LOCATION L0004019 VOLUME 579959.879 3723277.469 -36.55
LOCATION L0004020 VOLUME 579958.012 3723280.614 -36.50
LOCATION L0004021 VOLUME 579956.145 3723283.759 -36.45
LOCATION L0004022 VOLUME 579954.278 3723286.904 -36.40
LOCATION L0004023 VOLUME 579952.411 3723290.050 -36.37
LOCATION L0004024 VOLUME 579950.544 3723293.195 -36.35
LOCATION L0004025 VOLUME 579948.677 3723296.340 -36.32
LOCATION L0004026 VOLUME 579946.810 3723299.485 -36.30
LOCATION L0004027 VOLUME 579944.943 3723302.631 -36.29
LOCATION L0004028 VOLUME 579943.076 3723305.776 -36.28

LOCATION L0004029 VOLUME 579941.209 3723308.921 -36.27
LOCATION L0004030 VOLUME 579939.342 3723312.066 -36.27
LOCATION L0004031 VOLUME 579937.475 3723315.211 -36.27
LOCATION L0004032 VOLUME 579935.608 3723318.357 -36.27
LOCATION L0004033 VOLUME 579933.741 3723321.502 -36.27
LOCATION L0004034 VOLUME 579931.874 3723324.647 -36.27
LOCATION L0004035 VOLUME 579930.007 3723327.792 -36.27
LOCATION L0004036 VOLUME 579928.140 3723330.937 -36.27
LOCATION L0004037 VOLUME 579926.273 3723334.083 -36.27
LOCATION L0004038 VOLUME 579924.406 3723337.228 -36.27
LOCATION L0004039 VOLUME 579922.539 3723340.373 -36.27
LOCATION L0004040 VOLUME 579920.672 3723343.518 -36.27
LOCATION L0004041 VOLUME 579918.805 3723346.664 -36.27
LOCATION L0004042 VOLUME 579916.938 3723349.809 -36.27
LOCATION L0004043 VOLUME 579915.071 3723352.954 -36.27
LOCATION L0004044 VOLUME 579913.204 3723356.099 -36.27
LOCATION L0004045 VOLUME 579911.337 3723359.244 -36.27
LOCATION L0004046 VOLUME 579909.470 3723362.390 -36.27
LOCATION L0004047 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0004048 VOLUME 579905.871 3723368.758 -36.27
LOCATION L0004049 VOLUME 579904.085 3723371.950 -36.27
LOCATION L0004050 VOLUME 579902.299 3723375.142 -36.27
LOCATION L0004051 VOLUME 579900.513 3723378.334 -36.27
LOCATION L0004052 VOLUME 579898.728 3723381.526 -36.27
LOCATION L0004053 VOLUME 579896.942 3723384.718 -36.27
LOCATION L0004054 VOLUME 579895.156 3723387.910 -36.27
LOCATION L0004055 VOLUME 579893.370 3723391.102 -36.27
LOCATION L0004056 VOLUME 579891.584 3723394.294 -36.27
LOCATION L0004057 VOLUME 579889.799 3723397.486 -36.27
LOCATION L0004058 VOLUME 579888.013 3723400.678 -36.27
LOCATION L0004059 VOLUME 579886.227 3723403.870 -36.27
LOCATION L0004060 VOLUME 579884.441 3723407.062 -36.27
LOCATION L0004061 VOLUME 579882.655 3723410.254 -36.27
LOCATION L0004062 VOLUME 579880.870 3723413.446 -36.27
LOCATION L0004063 VOLUME 579879.084 3723416.638 -36.26
LOCATION L0004064 VOLUME 579877.298 3723419.830 -36.24
LOCATION L0004065 VOLUME 579875.512 3723423.022 -36.22
LOCATION L0004066 VOLUME 579873.727 3723426.214 -36.20
LOCATION L0004067 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0004068 VOLUME 579870.155 3723432.598 -36.17
LOCATION L0004069 VOLUME 579868.369 3723435.790 -36.15
LOCATION L0004070 VOLUME 579866.583 3723438.982 -36.13
LOCATION L0004071 VOLUME 579864.798 3723442.174 -36.11
LOCATION L0004072 VOLUME 579863.012 3723445.366 -36.09
LOCATION L0004073 VOLUME 579861.226 3723448.558 -36.07
LOCATION L0004074 VOLUME 579859.440 3723451.750 -36.06
LOCATION L0004075 VOLUME 579857.655 3723454.942 -36.04
LOCATION L0004076 VOLUME 579855.869 3723458.134 -36.02
LOCATION L0004077 VOLUME 579854.083 3723461.327 -36.00
LOCATION L0004078 VOLUME 579852.297 3723464.519 -35.98
LOCATION L0004079 VOLUME 579850.511 3723467.711 -35.99
LOCATION L0004080 VOLUME 579848.726 3723470.903 -36.04
LOCATION L0004081 VOLUME 579846.940 3723474.095 -36.08
LOCATION L0004082 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0004083 VOLUME 579843.368 3723480.479 -36.16
LOCATION L0004084 VOLUME 579841.582 3723483.671 -36.19
LOCATION L0004085 VOLUME 579839.797 3723486.863 -36.22
LOCATION L0004086 VOLUME 579838.011 3723490.055 -36.24
LOCATION L0004087 VOLUME 579836.225 3723493.247 -36.26
LOCATION L0004088 VOLUME 579834.439 3723496.439 -36.26

```
   LOCATION L0004089     VOLUME   579832.654 3723499.631 -36.23
   LOCATION L0004090     VOLUME   579830.868 3723502.823 -36.20
   LOCATION L0004091     VOLUME   579829.082 3723506.015 -36.16
   LOCATION L0004092     VOLUME   579827.296 3723509.207 -36.13
   LOCATION L0004093     VOLUME   579825.510 3723512.399 -36.10
   LOCATION L0004094     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0004095     VOLUME   579821.939 3723518.783 -36.03
   LOCATION L0004096     VOLUME   579820.153 3723521.975 -36.00
   LOCATION L0004097     VOLUME   579818.367 3723525.167 -35.97
   LOCATION L0004098     VOLUME   579816.581 3723528.359 -35.97
   LOCATION L0004099     VOLUME   579814.796 3723531.551 -35.97
   LOCATION L0004100     VOLUME   579813.010 3723534.743 -35.97
   LOCATION L0004101     VOLUME   579811.224 3723537.935 -35.97
   LOCATION L0004102     VOLUME   579809.438 3723541.127 -35.97
   LOCATION L0004103     VOLUME   579807.653 3723544.319 -35.97
   LOCATION L0004104     VOLUME   579805.867 3723547.511 -35.97
   LOCATION L0004105     VOLUME   579804.081 3723550.703 -35.97
   LOCATION L0004106     VOLUME   579802.295 3723553.895 -35.97
   LOCATION L0004107     VOLUME   579800.509 3723557.087 -35.97
   LOCATION L0004108     VOLUME   579798.724 3723560.279 -35.97
   LOCATION L0004109     VOLUME   579796.938 3723563.471 -35.97
   LOCATION L0004110     VOLUME   579795.152 3723566.663 -35.97
   LOCATION L0004111     VOLUME   579793.366 3723569.855 -35.97
   LOCATION L0004112     VOLUME   579791.580 3723573.047 -35.97
   LOCATION L0004113     VOLUME   579789.795 3723576.239 -35.97
   LOCATION L0004114     VOLUME   579788.009 3723579.431 -35.97
   LOCATION L0004115     VOLUME   579786.223 3723582.623 -35.97
   LOCATION L0004116     VOLUME   579784.437 3723585.815 -35.97
   LOCATION L0004117     VOLUME   579782.652 3723589.007 -35.97
   LOCATION L0004118     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 2.71E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0004119     VOLUME   580071.719 3722811.433 -38.86
   LOCATION L0004120     VOLUME   580059.528 3722811.353 -38.96
   LOCATION L0004121     VOLUME   580047.336 3722811.272 -38.98
   LOCATION L0004122     VOLUME   580035.144 3722811.191 -39.01
   LOCATION L0004123     VOLUME   580022.952 3722811.110 -39.01
   LOCATION L0004124     VOLUME   580010.761 3722811.030 -39.01
   LOCATION L0004125     VOLUME   579998.569 3722810.949 -38.98
   LOCATION L0004126     VOLUME   579986.377 3722810.868 -38.75
   LOCATION L0004127     VOLUME   579974.185 3722810.787 -38.53
   LOCATION L0004128     VOLUME   579961.994 3722810.707 -38.44
```

```
   LOCATION L0004129     VOLUME   579949.802 3722810.626 -38.42
   LOCATION L0004130     VOLUME   579937.610 3722810.545 -38.38
   LOCATION L0004131     VOLUME   579925.422 3722810.683 -38.28
   LOCATION L0004132     VOLUME   579913.238 3722811.125 -38.18
   LOCATION L0004133     VOLUME   579901.054 3722811.567 -38.07
   LOCATION L0004134     VOLUME   579888.870 3722812.009 -37.95
   LOCATION L0004135     VOLUME   579876.686 3722812.451 -37.79
   LOCATION L0004136     VOLUME   579864.502 3722812.893 -37.54
   LOCATION L0004137     VOLUME   579852.318 3722813.335 -37.30
   LOCATION L0004138     VOLUME   579840.134 3722813.777 -37.24
   LOCATION L0004139     VOLUME   579827.950 3722814.219 -37.21
   LOCATION L0004140     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0004141     VOLUME   579803.582 3722815.103 -37.07
   LOCATION L0004142     VOLUME   579791.398 3722815.545 -36.99
   LOCATION L0004143     VOLUME   579779.214 3722815.987 -36.83
   LOCATION L0004144     VOLUME   579767.030 3722816.429 -36.67
   LOCATION L0004145     VOLUME   579754.846 3722816.871 -36.52
   LOCATION L0004146     VOLUME   579742.662 3722817.313 -36.39
   LOCATION L0004147     VOLUME   579730.478 3722817.755 -36.27
   LOCATION L0004148     VOLUME   579718.290 3722818.032 -36.20
   LOCATION L0004149     VOLUME   579706.099 3722818.153 -36.13
   LOCATION L0004150     VOLUME   579693.907 3722818.273 -36.07
   LOCATION L0004151     VOLUME   579681.716 3722818.394 -36.02
   LOCATION L0004152     VOLUME   579669.525 3722818.515 -35.97
   LOCATION L0004153     VOLUME   579657.333 3722818.632 -35.97
   LOCATION L0004154     VOLUME   579645.141 3722818.604 -35.97
   LOCATION L0004155     VOLUME   579632.949 3722818.575 -36.01
   LOCATION L0004156     VOLUME   579620.757 3722818.546 -36.08
   LOCATION L0004157     VOLUME   579608.565 3722818.517 -36.14
   LOCATION L0004158     VOLUME   579596.373 3722818.489 -36.14
   LOCATION L0004159     VOLUME   579584.181 3722818.460 -36.14
   LOCATION L0004160     VOLUME   579571.989 3722818.431 -36.14
   LOCATION L0004161     VOLUME   579559.797 3722818.402 -36.14
   LOCATION L0004162     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0004163     VOLUME   579535.413 3722818.345 -36.14
   LOCATION L0004164     VOLUME   579523.222 3722818.316 -36.14
   LOCATION L0004165     VOLUME   579511.030 3722818.287 -36.14
   LOCATION L0004166     VOLUME   579498.838 3722818.259 -36.14
   LOCATION L0004167     VOLUME   579486.646 3722818.230 -36.14
   LOCATION L0004168     VOLUME   579474.454 3722818.201 -36.14
   LOCATION L0004169     VOLUME   579462.262 3722818.172 -36.14
   LOCATION L0004170     VOLUME   579450.070 3722818.144 -36.19
   LOCATION L0004171     VOLUME   579437.887 3722817.853 -36.24
   LOCATION L0004172     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0004173     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0004174     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0004175     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0004176     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0004177     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0004178     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0004179     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0004180     VOLUME   579328.379 3722811.085 -36.25
   LOCATION L0004181     VOLUME   579316.188 3722810.942 -36.23
   LOCATION L0004182     VOLUME   579303.997 3722810.798 -36.22
   LOCATION L0004183     VOLUME   579291.805 3722810.655 -36.22
   LOCATION L0004184     VOLUME   579279.614 3722810.511 -36.21
   LOCATION L0004185     VOLUME   579267.423 3722810.368 -36.11
   LOCATION L0004186     VOLUME   579255.232 3722810.225 -36.01
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 6.34E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ----------------------------------------------------------------
   LOCATION L0004187     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0004188     VOLUME   580104.836 3722811.157 -38.71
   LOCATION L0004189     VOLUME   580117.026 3722810.998 -38.71
   LOCATION L0004190     VOLUME   580129.217 3722810.838 -38.62
   LOCATION L0004191     VOLUME   580141.408 3722810.679 -38.50
   LOCATION L0004192     VOLUME   580153.599 3722810.520 -38.40
   LOCATION L0004193     VOLUME   580165.790 3722810.361 -38.40
   LOCATION L0004194     VOLUME   580177.981 3722810.202 -38.40
   LOCATION L0004195     VOLUME   580190.172 3722810.043 -38.39
   LOCATION L0004196     VOLUME   580202.363 3722809.884 -38.37
   LOCATION L0004197     VOLUME   580214.554 3722809.725 -38.33
   LOCATION L0004198     VOLUME   580226.745 3722809.687 -38.22
   LOCATION L0004199     VOLUME   580238.937 3722809.784 -38.11
   LOCATION L0004200     VOLUME   580251.129 3722809.881 -38.10
   LOCATION L0004201     VOLUME   580263.320 3722809.978 -38.10
   LOCATION L0004202     VOLUME   580275.512 3722810.075 -38.09
   LOCATION L0004203     VOLUME   580287.704 3722810.172 -38.07
   LOCATION L0004204     VOLUME   580299.895 3722810.269 -38.05
   LOCATION L0004205     VOLUME   580312.087 3722810.366 -37.85
   LOCATION L0004206     VOLUME   580324.278 3722810.463 -37.65
   LOCATION L0004207     VOLUME   580336.470 3722810.560 -37.53
   LOCATION L0004208     VOLUME   580348.662 3722810.657 -37.51
   LOCATION L0004209     VOLUME   580360.853 3722810.754 -37.49
   LOCATION L0004210     VOLUME   580373.045 3722810.851 -37.49
   LOCATION L0004211     VOLUME   580385.236 3722810.947 -37.49
   LOCATION L0004212     VOLUME   580397.428 3722811.044 -37.41
   LOCATION L0004213     VOLUME   580409.620 3722811.141 -37.26
   LOCATION L0004214     VOLUME   580421.811 3722811.238 -37.12
   LOCATION L0004215     VOLUME   580434.003 3722811.335 -37.02
   LOCATION L0004216     VOLUME   580446.195 3722811.432 -36.92
   LOCATION L0004217     VOLUME   580458.386 3722811.529 -36.88
   LOCATION L0004218     VOLUME   580470.578 3722811.626 -36.88
   LOCATION L0004219     VOLUME   580482.769 3722811.723 -36.88
   LOCATION L0004220     VOLUME   580494.961 3722811.820 -36.88
   LOCATION L0004221     VOLUME   580507.153 3722811.917 -36.88
   LOCATION L0004222     VOLUME   580519.344 3722812.014 -36.97
   LOCATION L0004223     VOLUME   580531.536 3722812.111 -37.09
   LOCATION L0004224     VOLUME   580543.727 3722812.208 -37.19
   LOCATION L0004225     VOLUME   580555.919 3722812.305 -37.19
   LOCATION L0004226     VOLUME   580568.111 3722812.402 -37.19
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING1      POINT      579805.150  3723587.850      -35.970
** DESCRSRC Truck Idling at LW-1A
   LOCATION IDLING2      POINT      579874.040  3723475.220      -36.230
** DESCRSRC Truck Idling at LW-1B
   LOCATION IDLING3      POINT      579883.560  3723455.580      -36.270
```

```
** DESCRSRC Truck Idling at LW-2
   LOCATION IDLING4      POINT      579760.060  3723570.450      -35.970
** DESCRSRC Truck Idling at LW-3A
   LOCATION IDLING5      POINT      579788.530  3723421.660      -36.120
** DESCRSRC Truck Idling at LW-3B
   LOCATION IDLING6      POINT      579808.320  3723334.150      -35.850
** DESCRSRC Truck Idling at LW-4
** Source Parameters **
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0003630     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003631     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003632     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003633     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003634     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003635     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003636     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003637     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003638     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003639     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003640     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003641     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003642     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003643     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003644     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003645     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003646     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003647     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003648     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003649     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003650     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003651     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003652     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003653     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003654     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003655     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003656     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003657     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003658     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003659     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003660     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003661     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003662     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003663     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003664     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003665     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003666     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003667     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003668     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003669     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003670     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003671     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003672     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003673     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003674     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003675     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003676     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003677     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003678     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003679     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003680     0.00000005897      0.00      1.70      0.85
```

```
SRCPARAM L0003681     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003682     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003683     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003684     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003685     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003686     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003687     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003688     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003689     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003690     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003691     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003692     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003693     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003694     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003695     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003696     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003697     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003698     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003699     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003700     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003701     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003702     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003703     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003704     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003705     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003706     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003707     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003708     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003709     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003710     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003711     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003712     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003713     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003714     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003715     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003716     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003717     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003718     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003719     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003720     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003721     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003722     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003723     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003724     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003725     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003726     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003727     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003728     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003729     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003730     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003731     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003732     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003733     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003734     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003735     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003736     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003737     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003738     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003739     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003740     0.00000005897      0.00      1.70      0.85
```

```
SRCPARAM L0003741     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003742     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003743     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003744     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003745     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003746     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003747     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003748     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003749     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003750     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003751     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003752     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003753     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003754     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003755     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003756     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003757     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003758     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003759     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003760     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003761     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003762     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003763     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003764     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003765     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003766     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003767     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003768     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003769     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003770     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003771     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003772     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003773     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003774     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003775     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003776     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003777     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003778     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003779     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003780     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003781     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003782     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003783     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003784     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003785     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003786     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003787     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003788     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003789     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003790     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003791     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003792     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003793     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003794     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003795     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003796     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003797     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003798     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003799     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003800     0.00000005897      0.00      1.70      0.85
```

```
SRCPARAM L0003801     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003802     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003803     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003804     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003805     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003806     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003807     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003808     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003809     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003810     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003811     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003812     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003813     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003814     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003815     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003816     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003817     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003818     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003819     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003820     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003821     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003822     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003823     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003824     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003825     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003826     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003827     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003828     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003829     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003830     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003831     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003832     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003833     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003834     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003835     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003836     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003837     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003838     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003839     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003840     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003841     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003842     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003843     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003844     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003845     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003846     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003847     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003848     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003849     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003850     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003851     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003852     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003853     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003854     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003855     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003856     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003857     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003858     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003859     0.00000005897      0.00      1.70      0.85
SRCPARAM L0003860     0.00000005897      0.00      1.70      0.85
```

```
   SRCPARAM L0003861     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003862     0.00000005897      0.00      1.70      0.85
   SRCPARAM L0003863     0.00000005897      0.00      1.70      0.85
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0003864     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003865     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003866     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003867     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003868     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003869     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003870     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003871     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003872     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003873     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003874     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003875     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003876     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003877     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003878     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003879     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003880     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003881     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003882     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003883     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003884     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003885     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003886     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003887     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003888     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003889     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003890     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003891     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003892     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003893     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003894     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003895     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003896     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003897     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003898     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003899     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003900     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003901     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003902     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003903     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003904     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003905     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003906     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003907     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003908     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003909     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003910     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003911     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003912     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003913     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003914     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003915     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003916     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003917     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0003918     0.00000005922      0.00      1.70      0.85
```

```
SRCPARAM L0003919     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003920     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003921     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003922     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003923     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003924     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003925     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003926     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003927     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003928     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003929     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003930     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003931     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003932     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003933     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003934     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003935     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003936     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003937     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003938     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003939     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003940     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003941     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003942     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003943     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003944     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003945     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003946     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003947     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003948     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003949     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003950     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003951     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003952     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003953     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003954     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003955     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003956     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003957     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003958     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003959     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003960     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003961     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003962     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003963     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003964     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003965     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003966     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003967     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003968     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003969     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003970     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003971     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003972     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003973     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003974     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003975     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003976     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003977     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003978     0.00000005922      0.00      1.70      0.85
```

```
SRCPARAM L0003979     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003980     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003981     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003982     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003983     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003984     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003985     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003986     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003987     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003988     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003989     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003990     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003991     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003992     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003993     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003994     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003995     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003996     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003997     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003998     0.00000005922      0.00      1.70      0.85
SRCPARAM L0003999     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004000     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004001     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004002     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004003     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004004     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004005     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004006     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004007     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004008     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004009     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004010     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004011     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004012     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004013     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004014     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004015     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004016     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004017     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004018     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004019     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004020     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004021     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004022     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004023     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004024     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004025     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004026     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004027     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004028     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004029     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004030     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004031     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004032     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004033     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004034     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004035     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004036     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004037     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004038     0.00000005922      0.00      1.70      0.85
```

```
SRCPARAM L0004039     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004040     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004041     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004042     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004043     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004044     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004045     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004046     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004047     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004048     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004049     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004050     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004051     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004052     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004053     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004054     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004055     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004056     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004057     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004058     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004059     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004060     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004061     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004062     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004063     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004064     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004065     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004066     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004067     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004068     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004069     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004070     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004071     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004072     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004073     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004074     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004075     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004076     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004077     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004078     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004079     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004080     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004081     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004082     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004083     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004084     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004085     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004086     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004087     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004088     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004089     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004090     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004091     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004092     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004093     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004094     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004095     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004096     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004097     0.00000005922      0.00      1.70      0.85
SRCPARAM L0004098     0.00000005922      0.00      1.70      0.85
```

```
   SRCPARAM L0004099     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004100     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004101     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004102     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004103     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004104     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004105     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004106     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004107     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004108     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004109     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004110     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004111     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004112     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004113     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004114     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004115     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004116     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004117     0.00000005922      0.00      1.70      0.85
   SRCPARAM L0004118     0.00000005922      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0004119     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004120     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004121     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004122     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004123     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004124     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004125     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004126     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004127     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004128     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004129     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004130     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004131     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004132     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004133     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004134     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004135     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004136     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004137     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004138     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004139     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004140     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004141     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004142     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004143     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004144     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004145     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004146     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004147     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004148     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004149     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004150     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004151     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004152     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004153     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004154     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004155     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004156     0.00000003985      0.00      5.67      0.85
```

```
   SRCPARAM L0004157     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004158     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004159     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004160     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004161     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004162     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004163     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004164     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004165     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004166     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004167     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004168     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004169     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004170     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004171     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004172     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004173     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004174     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004175     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004176     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004177     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004178     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004179     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004180     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004181     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004182     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004183     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004184     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004185     0.00000003985      0.00      5.67      0.85
   SRCPARAM L0004186     0.00000003985      0.00      5.67      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0004187     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004188     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004189     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004190     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004191     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004192     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004193     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004194     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004195     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004196     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004197     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004198     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004199     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004200     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004201     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004202     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004203     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004204     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004205     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004206     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004207     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004208     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004209     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004210     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004211     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004212     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004213     0.0000001585       0.00      5.67      0.85
   SRCPARAM L0004214     0.0000001585       0.00      5.67      0.85
```

```
   SRCPARAM L0004215     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004216     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004217     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004218     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004219     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004220     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004221     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004222     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004223     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004224     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004225     0.0000001585      0.00      5.67      0.85
   SRCPARAM L0004226     0.0000001585      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING1      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING2      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING3      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING4      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING5      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING6      0.0000172     3.840   366.000        50       0.1

** Building Downwash **
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
```

BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDWID IDLING1	110.05	125.30	136.75	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING1	0.00	0.00	0.00	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	99.31	97.41	92.56	84.90	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	114.62	124.05	133.42	138.75	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING3	99.31	97.41	92.56	84.90	74.65	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING3	114.62	124.05	133.42	138.75	236.70	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	0.00	0.00	0.00	136.59	131.11	121.66
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	92.06	72.81	87.10	94.07	98.18
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDLEN IDLING1	136.59	131.11	121.66	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING1	0.00	0.00	0.00	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	96.68	99.17	98.64	95.12	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	115.88	109.29	99.39	86.46	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN IDLING3	96.68	99.17	98.64	95.12	88.71	55.76

BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN	IDLING3	115.88	109.29	99.39	86.46	92.38	55.76
BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	0.00	0.00	0.00	110.05	125.30	136.75
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	146.95	145.39	72.33	83.05	91.25
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
XBADJ	IDLING1	-166.84	-164.57	-157.29	-48.98	-27.99	-6.15
XBADJ	IDLING1	-0.37	2.37	5.04	7.56	9.65	7.73
XBADJ	IDLING1	5.58	3.26	0.85	-1.60	-4.00	-6.47
XBADJ	IDLING1	0.00	0.00	0.00	-37.47	-42.91	-47.05
XBADJ	IDLING1	-67.28	-88.46	-106.94	-122.17	-133.70	-141.16
XBADJ	IDLING1	-144.33	-143.11	-137.55	-131.81	-122.74	-112.47
XBADJ	IDLING2	-159.04	-162.04	-160.12	-153.33	-8.37	-9.50
XBADJ	IDLING2	-26.58	-45.91	-63.85	-79.85	-93.61	-108.24
XBADJ	IDLING2	-119.59	-127.30	-131.14	-131.00	-126.88	-119.10
XBADJ	IDLING2	-114.11	-105.66	-93.99	-79.47	-62.54	-43.70
XBADJ	IDLING2	-41.07	-40.17	-38.05	-34.77	-30.44	-25.18
XBADJ	IDLING2	-19.16	-12.55	-5.57	-2.41	0.14	-151.21
XBADJ	IDLING3	-141.35	-146.84	-147.87	-144.40	-136.55	-10.48
XBADJ	IDLING3	-28.81	-51.88	-73.37	-92.63	-109.27	-126.31
XBADJ	IDLING3	-139.50	-148.46	-152.91	-152.71	-147.87	-138.74
XBADJ	IDLING3	-131.80	-120.86	-106.24	-88.40	-67.87	-45.28
XBADJ	IDLING3	-53.37	-65.49	-75.62	-83.45	-88.75	-7.12
XBADJ	IDLING3	0.76	8.61	16.20	19.30	21.13	-131.57
XBADJ	IDLING4	-141.87	-132.79	-119.68	-102.93	-83.05	0.00
XBADJ	IDLING4	0.00	0.00	0.00	-4.55	-1.97	0.67
XBADJ	IDLING4	28.94	18.92	8.14	10.24	11.91	8.73
XBADJ	IDLING4	5.28	1.68	-1.98	-5.58	-9.00	0.00
XBADJ	IDLING4	-115.61	-135.88	-152.03	-163.56	-170.12	-171.51
XBADJ	IDLING4	-167.69	-255.61	-153.54	-156.69	-156.13	-150.83
XBADJ	IDLING5	-91.45	-2.71	-5.06	-7.25	-9.22	-10.91
XBADJ	IDLING5	-12.27	-13.26	-2.29	5.47	13.06	20.26
XBADJ	IDLING5	26.84	-126.48	-134.95	28.73	17.84	6.40
XBADJ	IDLING5	-5.23	-128.40	-116.60	-101.26	-82.84	-61.90
XBADJ	IDLING5	-59.56	-58.67	-95.89	-104.78	-110.48	-112.82

```
   XBADJ    IDLING5       -111.74  -107.26   -99.53  -101.06  -100.89   -97.65

   XBADJ    IDLING6         -8.70    -7.00    -5.09    -3.02    -0.86     1.33
   XBADJ    IDLING6         -6.03   -14.27   -22.08   -29.21   -35.46   -40.63
   XBADJ    IDLING6        -44.57   -47.15   -48.30   -60.27   -71.78   -81.11
   XBADJ    IDLING6        -87.97   -92.17   -93.56   -92.11   -87.86   -80.94
   XBADJ    IDLING6        -81.07   -79.80   -76.10   -70.09   -61.95   -51.93
   XBADJ    IDLING6        -40.33   -27.51   -13.84   -12.06   -11.27   -10.14

   YBADJ    IDLING1         -9.09   -24.26   -38.69   -74.96   -73.19   -69.20
   YBADJ    IDLING1        -65.11   -59.37   -53.00   -42.78   -31.26   -18.79
   YBADJ    IDLING1         -5.75     7.46    20.45    33.46    45.41    55.99
   YBADJ    IDLING1          0.00     0.00     0.00    74.96    73.19    69.20
   YBADJ    IDLING1         65.10    59.37    53.00    42.78    31.26    18.79
   YBADJ    IDLING1          5.75    -7.46   -20.45   -33.46   -45.41   -55.99

   YBADJ    IDLING2         19.79     0.26   -19.27   -38.22    57.37    62.79
   YBADJ    IDLING2         64.29    63.51    59.63    56.17    51.01    44.30
   YBADJ    IDLING2         36.24    27.08    17.10     7.24    -2.87   -12.90
   YBADJ    IDLING2        -22.54   -31.58   -41.53   -50.21   -57.37   -62.79
   YBADJ    IDLING2        -64.29   -63.51   -59.63   -56.17   -51.01   -44.30
   YBADJ    IDLING2        -36.24   -27.08   -17.10    -7.24     2.87    38.71

   YBADJ    IDLING3         32.57    15.93    -1.20   -18.30   -34.84    35.15
   YBADJ    IDLING3         35.20    33.74    31.36    31.23    30.15    56.55
   YBADJ    IDLING3         45.17    32.42    18.68     5.01    -8.84   -22.42
   YBADJ    IDLING3        -35.32   -47.25   -59.59   -70.13   -30.11   -35.15
   YBADJ    IDLING3        -35.20   -33.74   -31.36   -31.23   -30.15   -56.55
   YBADJ    IDLING3        -45.17   -32.42   -18.68    -5.01     8.84    48.23

   YBADJ    IDLING4        -50.48   -60.68   -69.04   -75.30   -79.28     0.00
   YBADJ    IDLING4          0.00     0.00     0.00   -73.58   -67.24   -58.85
   YBADJ    IDLING4         36.56    42.45   -24.25    -0.49    24.91    38.74
   YBADJ    IDLING4         50.48    60.68    69.04    75.30    79.28     0.00
   YBADJ    IDLING4         64.18    50.07    35.60    17.82    -0.51   -18.82
   YBADJ    IDLING4        -36.56   -42.45    24.25     0.49   -24.91   -38.74

   YBADJ    IDLING5        -55.12    16.96    30.01    42.15    53.00    62.25
   YBADJ    IDLING5         66.09    67.45   -52.02   -43.11   -32.88   -21.65
   YBADJ    IDLING5         -9.77    36.81    25.49    26.18    37.05    46.80
   YBADJ    IDLING5         55.12   -16.96   -30.01   -42.15   -53.00   -62.25
   YBADJ    IDLING5        -66.09   -67.45    52.02    43.11    32.88    21.65
   YBADJ    IDLING5          9.77    -2.41   -14.52   -26.18   -37.06   -46.80

   YBADJ    IDLING6        -20.44   -13.24    -5.65     2.12     9.82    17.23
   YBADJ    IDLING6         24.11    30.26    35.48    39.64    42.58    44.24
   YBADJ    IDLING6         44.54    43.50    41.13    37.52    32.76    27.01
   YBADJ    IDLING6         20.44    13.24     5.65    -2.12    -9.82   -17.23
   YBADJ    IDLING6        -24.11   -30.26   -35.49   -39.64   -42.58   -44.24
   YBADJ    IDLING6        -44.54   -43.50   -41.13   -37.52   -32.76   -27.01

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
```

```
RE STARTING
   INCLUDED DPM28-41.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST DPM28-41.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL DPM28-41.AD\PE00GALL.PLT 32
   SUMMFILE DPM28-41.sum
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

* MODELING OPTIONS USED: CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 11 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
580086.00000	3722773.00000	0.00146	-39.01	-39.01	0.00	PERIOD	ALL	00043800	
580122.00000	3722774.00000	0.00166	-38.71	-38.71	0.00	PERIOD	ALL	00043800	
580172.00000	3722775.00000	0.00153	-38.50	-38.50	0.00	PERIOD	ALL	00043800	
580242.00000	3722717.00000	0.00086	-38.40	-38.40	0.00	PERIOD	ALL	00043800	
580289.00000	3722738.00000	0.00090	-37.99	-37.99	0.00	PERIOD	ALL	00043800	
580337.00000	3722732.00000	0.00081	-37.80	-37.80	0.00	PERIOD	ALL	00043800	
579963.00000	3722704.00000	0.00069	-36.08	-36.08	0.00	PERIOD	ALL	00043800	
579927.00000	3722644.00000	0.00052	-36.33	-36.33	0.00	PERIOD	ALL	00043800	
579519.00000	3722783.00000	0.00038	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579466.00000	3722781.00000	0.00034	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579393.00000	3722779.00000	0.00031	-36.27	-36.27	0.00	PERIOD	ALL	00043800	

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

APPENDIX G

AERMOD Model Years 2042 – 2054 Operational DPM Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/1/2025
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\DPM42-54\DPM42-54.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park - 2042-2054 DPM
   TITLETWO PM2.5
   MODELOPT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL DPM42-54.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000011
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0004227 VOLUME 580076.882 3722821.514 -38.77
LOCATION L0004228 VOLUME 580076.385 3722825.138 -38.76
LOCATION L0004229 VOLUME 580075.889 3722828.761 -38.74
LOCATION L0004230 VOLUME 580074.448 3722832.047 -38.73
LOCATION L0004231 VOLUME 580072.532 3722835.163 -38.71
LOCATION L0004232 VOLUME 580070.616 3722838.278 -38.71
LOCATION L0004233 VOLUME 580068.700 3722841.394 -38.71
LOCATION L0004234 VOLUME 580066.784 3722844.510 -38.71
LOCATION L0004235 VOLUME 580064.868 3722847.625 -38.71
LOCATION L0004236 VOLUME 580062.953 3722850.741 -38.71
LOCATION L0004237 VOLUME 580061.037 3722853.857 -38.71
LOCATION L0004238 VOLUME 580059.121 3722856.973 -38.72
LOCATION L0004239 VOLUME 580057.205 3722860.088 -38.74
LOCATION L0004240 VOLUME 580055.289 3722863.204 -38.76
LOCATION L0004241 VOLUME 580053.282 3722866.261 -38.78
LOCATION L0004242 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0004243 VOLUME 580049.160 3722872.303 -38.80
LOCATION L0004244 VOLUME 580047.098 3722875.325 -38.80
LOCATION L0004245 VOLUME 580045.070 3722878.368 -38.80
LOCATION L0004246 VOLUME 580043.095 3722881.447 -38.79
LOCATION L0004247 VOLUME 580041.120 3722884.525 -38.78
LOCATION L0004248 VOLUME 580039.145 3722887.604 -38.77
LOCATION L0004249 VOLUME 580037.169 3722890.682 -38.75
LOCATION L0004250 VOLUME 580035.194 3722893.760 -38.72
LOCATION L0004251 VOLUME 580033.219 3722896.839 -38.71
LOCATION L0004252 VOLUME 580031.243 3722899.917 -38.71
LOCATION L0004253 VOLUME 580029.268 3722902.995 -38.72
LOCATION L0004254 VOLUME 580027.293 3722906.074 -38.73
LOCATION L0004255 VOLUME 580025.318 3722909.152 -38.74
LOCATION L0004256 VOLUME 580023.342 3722912.230 -38.74
LOCATION L0004257 VOLUME 580021.367 3722915.309 -38.74
LOCATION L0004258 VOLUME 580019.392 3722918.387 -38.74
LOCATION L0004259 VOLUME 580017.417 3722921.466 -38.73
LOCATION L0004260 VOLUME 580015.441 3722924.544 -38.71
LOCATION L0004261 VOLUME 580013.466 3722927.622 -38.71
LOCATION L0004262 VOLUME 580011.491 3722930.701 -38.71
LOCATION L0004263 VOLUME 580009.515 3722933.779 -38.71
LOCATION L0004264 VOLUME 580007.540 3722936.857 -38.71
LOCATION L0004265 VOLUME 580005.565 3722939.936 -38.71
LOCATION L0004266 VOLUME 580003.590 3722943.014 -38.71
LOCATION L0004267 VOLUME 580001.614 3722946.092 -38.71
LOCATION L0004268 VOLUME 579999.639 3722949.171 -38.71
LOCATION L0004269 VOLUME 579997.664 3722952.249 -38.71
LOCATION L0004270 VOLUME 579995.689 3722955.328 -38.71
LOCATION L0004271 VOLUME 579993.713 3722958.406 -38.71
LOCATION L0004272 VOLUME 579991.738 3722961.484 -38.71
LOCATION L0004273 VOLUME 579989.763 3722964.563 -38.71
LOCATION L0004274 VOLUME 579987.788 3722967.641 -38.71
LOCATION L0004275 VOLUME 579985.812 3722970.719 -38.71
LOCATION L0004276 VOLUME 579983.837 3722973.798 -38.71
LOCATION L0004277 VOLUME 579981.862 3722976.876 -38.71
LOCATION L0004278 VOLUME 579979.886 3722979.955 -38.71
LOCATION L0004279 VOLUME 579977.911 3722983.033 -38.71
LOCATION L0004280 VOLUME 579975.936 3722986.111 -38.71
LOCATION L0004281 VOLUME 579973.961 3722989.190 -38.71
LOCATION L0004282 VOLUME 579971.985 3722992.268 -38.71
LOCATION L0004283 VOLUME 579970.010 3722995.346 -38.71
LOCATION L0004284 VOLUME 579968.035 3722998.425 -38.71
LOCATION L0004285 VOLUME 579966.060 3723001.503 -38.71
LOCATION L0004286 VOLUME 579964.084 3723004.581 -38.71

LOCATION L0004287 VOLUME 579962.109 3723007.660 -38.71
LOCATION L0004288 VOLUME 579960.134 3723010.738 -38.71
LOCATION L0004289 VOLUME 579958.158 3723013.817 -38.71
LOCATION L0004290 VOLUME 579956.183 3723016.895 -38.70
LOCATION L0004291 VOLUME 579954.208 3723019.973 -38.69
LOCATION L0004292 VOLUME 579952.233 3723023.052 -38.68
LOCATION L0004293 VOLUME 579950.257 3723026.130 -38.67
LOCATION L0004294 VOLUME 579948.282 3723029.208 -38.67
LOCATION L0004295 VOLUME 579946.307 3723032.287 -38.68
LOCATION L0004296 VOLUME 579944.332 3723035.365 -38.68
LOCATION L0004297 VOLUME 579942.356 3723038.443 -38.70
LOCATION L0004298 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0004299 VOLUME 579938.406 3723044.600 -38.71
LOCATION L0004300 VOLUME 579936.430 3723047.679 -38.69
LOCATION L0004301 VOLUME 579934.455 3723050.757 -38.67
LOCATION L0004302 VOLUME 579932.480 3723053.835 -38.65
LOCATION L0004303 VOLUME 579930.505 3723056.914 -38.63
LOCATION L0004304 VOLUME 579928.522 3723059.987 -38.62
LOCATION L0004305 VOLUME 579926.536 3723063.059 -38.61
LOCATION L0004306 VOLUME 579924.550 3723066.130 -38.61
LOCATION L0004307 VOLUME 579922.565 3723069.202 -38.61
LOCATION L0004308 VOLUME 579920.579 3723072.274 -38.62
LOCATION L0004309 VOLUME 579918.594 3723075.346 -38.63
LOCATION L0004310 VOLUME 579916.608 3723078.417 -38.59
LOCATION L0004311 VOLUME 579914.623 3723081.489 -38.55
LOCATION L0004312 VOLUME 579912.637 3723084.561 -38.51
LOCATION L0004313 VOLUME 579910.651 3723087.633 -38.46
LOCATION L0004314 VOLUME 579908.666 3723090.704 -38.37
LOCATION L0004315 VOLUME 579906.680 3723093.776 -38.27
LOCATION L0004316 VOLUME 579904.695 3723096.848 -38.17
LOCATION L0004317 VOLUME 579902.709 3723099.919 -38.07
LOCATION L0004318 VOLUME 579900.723 3723102.991 -37.96
LOCATION L0004319 VOLUME 579898.738 3723106.063 -37.85
LOCATION L0004320 VOLUME 579896.752 3723109.135 -37.76
LOCATION L0004321 VOLUME 579894.767 3723112.206 -37.68
LOCATION L0004322 VOLUME 579892.787 3723115.282 -37.60
LOCATION L0004323 VOLUME 579890.962 3723118.451 -37.52
LOCATION L0004324 VOLUME 579889.136 3723121.621 -37.45
LOCATION L0004325 VOLUME 579887.311 3723124.790 -37.39
LOCATION L0004326 VOLUME 579885.485 3723127.960 -37.32
LOCATION L0004327 VOLUME 579883.660 3723131.129 -37.26
LOCATION L0004328 VOLUME 579881.834 3723134.299 -37.21
LOCATION L0004329 VOLUME 579880.009 3723137.468 -37.15
LOCATION L0004330 VOLUME 579878.183 3723140.638 -37.09
LOCATION L0004331 VOLUME 579876.358 3723143.807 -37.03
LOCATION L0004332 VOLUME 579874.532 3723146.977 -36.97
LOCATION L0004333 VOLUME 579872.707 3723150.146 -36.92
LOCATION L0004334 VOLUME 579870.881 3723153.315 -36.87
LOCATION L0004335 VOLUME 579869.056 3723156.485 -36.82
LOCATION L0004336 VOLUME 579867.230 3723159.654 -36.78
LOCATION L0004337 VOLUME 579865.405 3723162.824 -36.74
LOCATION L0004338 VOLUME 579863.579 3723165.993 -36.70
LOCATION L0004339 VOLUME 579861.754 3723169.163 -36.65
LOCATION L0004340 VOLUME 579859.928 3723172.332 -36.60
LOCATION L0004341 VOLUME 579858.103 3723175.502 -36.55
LOCATION L0004342 VOLUME 579856.277 3723178.671 -36.50
LOCATION L0004343 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0004344 VOLUME 579852.626 3723185.010 -36.40
LOCATION L0004345 VOLUME 579850.801 3723188.180 -36.35
LOCATION L0004346 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0004347 VOLUME 579847.495 3723194.699 -36.25
LOCATION L0004348 VOLUME 579845.942 3723198.010 -36.23
LOCATION L0004349 VOLUME 579844.389 3723201.322 -36.22
LOCATION L0004350 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0004351 VOLUME 579841.283 3723207.945 -36.22
LOCATION L0004352 VOLUME 579839.730 3723211.256 -36.22
LOCATION L0004353 VOLUME 579838.177 3723214.568 -36.23
LOCATION L0004354 VOLUME 579836.624 3723217.879 -36.24
LOCATION L0004355 VOLUME 579835.071 3723221.191 -36.25
LOCATION L0004356 VOLUME 579833.518 3723224.502 -36.27
LOCATION L0004357 VOLUME 579831.965 3723227.814 -36.25
LOCATION L0004358 VOLUME 579830.412 3723231.125 -36.21
LOCATION L0004359 VOLUME 579828.859 3723234.437 -36.18
LOCATION L0004360 VOLUME 579827.306 3723237.749 -36.15
LOCATION L0004361 VOLUME 579825.753 3723241.060 -36.11
LOCATION L0004362 VOLUME 579824.200 3723244.372 -36.08
LOCATION L0004363 VOLUME 579822.743 3723247.722 -36.04
LOCATION L0004364 VOLUME 579821.534 3723251.174 -36.01
LOCATION L0004365 VOLUME 579820.325 3723254.626 -35.97
LOCATION L0004366 VOLUME 579819.115 3723258.078 -35.97
LOCATION L0004367 VOLUME 579817.906 3723261.530 -35.97
LOCATION L0004368 VOLUME 579816.697 3723264.982 -35.97
LOCATION L0004369 VOLUME 579815.488 3723268.434 -35.97
LOCATION L0004370 VOLUME 579814.278 3723271.886 -35.97
LOCATION L0004371 VOLUME 579813.069 3723275.338 -35.97
LOCATION L0004372 VOLUME 579811.860 3723278.790 -35.97
LOCATION L0004373 VOLUME 579810.651 3723282.242 -35.97
LOCATION L0004374 VOLUME 579809.441 3723285.694 -35.97
LOCATION L0004375 VOLUME 579808.232 3723289.145 -35.97
LOCATION L0004376 VOLUME 579807.023 3723292.597 -35.97
LOCATION L0004377 VOLUME 579805.814 3723296.049 -35.97
LOCATION L0004378 VOLUME 579804.604 3723299.501 -35.97
LOCATION L0004379 VOLUME 579803.395 3723302.953 -35.97
LOCATION L0004380 VOLUME 579802.186 3723306.405 -35.97
LOCATION L0004381 VOLUME 579800.977 3723309.857 -35.97
LOCATION L0004382 VOLUME 579799.767 3723313.309 -35.97
LOCATION L0004383 VOLUME 579798.558 3723316.761 -35.96
LOCATION L0004384 VOLUME 579797.349 3723320.213 -35.96
LOCATION L0004385 VOLUME 579796.143 3723323.666 -35.95
LOCATION L0004386 VOLUME 579794.961 3723327.127 -35.95
LOCATION L0004387 VOLUME 579793.780 3723330.589 -35.95
LOCATION L0004388 VOLUME 579792.598 3723334.050 -35.95
LOCATION L0004389 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0004390 VOLUME 579790.235 3723340.973 -35.97
LOCATION L0004391 VOLUME 579789.054 3723344.435 -35.97
LOCATION L0004392 VOLUME 579787.872 3723347.896 -35.97
LOCATION L0004393 VOLUME 579786.691 3723351.358 -35.97
LOCATION L0004394 VOLUME 579785.509 3723354.819 -35.97
LOCATION L0004395 VOLUME 579784.328 3723358.281 -35.97
LOCATION L0004396 VOLUME 579783.146 3723361.743 -35.97
LOCATION L0004397 VOLUME 579781.997 3723365.213 -35.97
LOCATION L0004398 VOLUME 579781.206 3723368.784 -35.97
LOCATION L0004399 VOLUME 579780.415 3723372.355 -35.97
LOCATION L0004400 VOLUME 579779.624 3723375.926 -35.97
LOCATION L0004401 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0004402 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0004403 VOLUME 579777.251 3723386.639 -35.97
LOCATION L0004404 VOLUME 579776.460 3723390.210 -35.97
LOCATION L0004405 VOLUME 579775.670 3723393.781 -35.97
LOCATION L0004406 VOLUME 579774.879 3723397.353 -35.97

```
   LOCATION L0004407     VOLUME   579774.088 3723400.924 -35.97
   LOCATION L0004408     VOLUME   579773.297 3723404.495 -35.97
   LOCATION L0004409     VOLUME   579772.506 3723408.066 -35.98
   LOCATION L0004410     VOLUME   579771.715 3723411.637 -35.99
   LOCATION L0004411     VOLUME   579770.924 3723415.208 -36.00
   LOCATION L0004412     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0004413     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0004414     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0004415     VOLUME   579768.026 3723429.543 -36.03
   LOCATION L0004416     VOLUME   579767.439 3723433.153 -36.03
   LOCATION L0004417     VOLUME   579766.851 3723436.763 -36.03
   LOCATION L0004418     VOLUME   579766.264 3723440.374 -36.02
   LOCATION L0004419     VOLUME   579765.676 3723443.984 -36.02
   LOCATION L0004420     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0004421     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0004422     VOLUME   579763.914 3723454.814 -36.00
   LOCATION L0004423     VOLUME   579763.327 3723458.424 -35.99
   LOCATION L0004424     VOLUME   579762.739 3723462.034 -35.99
   LOCATION L0004425     VOLUME   579762.152 3723465.644 -35.98
   LOCATION L0004426     VOLUME   579761.564 3723469.254 -35.98
   LOCATION L0004427     VOLUME   579760.977 3723472.865 -35.97
   LOCATION L0004428     VOLUME   579760.389 3723476.475 -35.97
   LOCATION L0004429     VOLUME   579759.802 3723480.085 -35.97
   LOCATION L0004430     VOLUME   579759.214 3723483.695 -35.97
   LOCATION L0004431     VOLUME   579758.627 3723487.305 -35.97
   LOCATION L0004432     VOLUME   579758.039 3723490.915 -35.97
   LOCATION L0004433     VOLUME   579757.452 3723494.525 -35.97
   LOCATION L0004434     VOLUME   579756.864 3723498.135 -35.97
   LOCATION L0004435     VOLUME   579756.277 3723501.745 -35.97
   LOCATION L0004436     VOLUME   579755.689 3723505.356 -35.97
   LOCATION L0004437     VOLUME   579755.102 3723508.966 -35.97
   LOCATION L0004438     VOLUME   579754.514 3723512.576 -35.97
   LOCATION L0004439     VOLUME   579753.927 3723516.186 -35.97
   LOCATION L0004440     VOLUME   579753.339 3723519.796 -35.97
   LOCATION L0004441     VOLUME   579752.752 3723523.406 -35.97
   LOCATION L0004442     VOLUME   579752.164 3723527.016 -35.97
   LOCATION L0004443     VOLUME   579751.577 3723530.626 -35.97
   LOCATION L0004444     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0004445     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0004446     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0004447     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0004448     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0004449     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0004450     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0004451     VOLUME   579746.877 3723559.507 -35.97
   LOCATION L0004452     VOLUME   579746.290 3723563.117 -35.97
   LOCATION L0004453     VOLUME   579745.702 3723566.727 -35.97
   LOCATION L0004454     VOLUME   579745.115 3723570.338 -35.97
   LOCATION L0004455     VOLUME   579744.527 3723573.948 -35.97
   LOCATION L0004456     VOLUME   579743.940 3723577.558 -35.97
   LOCATION L0004457     VOLUME   579743.352 3723581.168 -35.97
   LOCATION L0004458     VOLUME   579742.765 3723584.778 -35.97
   LOCATION L0004459     VOLUME   579742.177 3723588.388 -35.97
   LOCATION L0004460     VOLUME   579741.590 3723591.998 -35.97
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000119
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0004461     VOLUME   580084.307 3722820.832 -38.74
   LOCATION L0004462     VOLUME   580083.314 3722824.352 -38.74
   LOCATION L0004463     VOLUME   580082.322 3722827.873 -38.73
   LOCATION L0004464     VOLUME   580081.329 3722831.393 -38.72
   LOCATION L0004465     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0004466     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0004467     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0004468     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0004469     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0004470     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0004471     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0004472     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0004473     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0004474     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0004475     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0004476     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0004477     VOLUME   580063.950 3722872.317 -38.70
   LOCATION L0004478     VOLUME   580067.118 3722874.145 -38.69
   LOCATION L0004479     VOLUME   580070.285 3722875.974 -38.67
   LOCATION L0004480     VOLUME   580073.453 3722877.803 -38.66
   LOCATION L0004481     VOLUME   580076.621 3722879.632 -38.63
   LOCATION L0004482     VOLUME   580079.788 3722881.461 -38.61
   LOCATION L0004483     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0004484     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0004485     VOLUME   580089.291 3722886.947 -38.50
   LOCATION L0004486     VOLUME   580092.459 3722888.776 -38.47
   LOCATION L0004487     VOLUME   580095.626 3722890.604 -38.45
   LOCATION L0004488     VOLUME   580098.794 3722892.433 -38.43
   LOCATION L0004489     VOLUME   580101.961 3722894.262 -38.41
   LOCATION L0004490     VOLUME   580105.129 3722896.091 -38.40
   LOCATION L0004491     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0004492     VOLUME   580111.464 3722899.748 -38.40
   LOCATION L0004493     VOLUME   580114.632 3722901.577 -38.40
   LOCATION L0004494     VOLUME   580117.799 3722903.406 -38.40
   LOCATION L0004495     VOLUME   580120.967 3722905.234 -38.40
   LOCATION L0004496     VOLUME   580124.135 3722907.063 -38.39
   LOCATION L0004497     VOLUME   580127.302 3722908.892 -38.37
   LOCATION L0004498     VOLUME   580130.470 3722910.721 -38.35
   LOCATION L0004499     VOLUME   580133.637 3722912.549 -38.33
   LOCATION L0004500     VOLUME   580136.805 3722914.378 -38.30
   LOCATION L0004501     VOLUME   580139.973 3722916.207 -38.27
   LOCATION L0004502     VOLUME   580143.140 3722918.036 -38.23
   LOCATION L0004503     VOLUME   580146.308 3722919.864 -38.19
   LOCATION L0004504     VOLUME   580149.475 3722921.693 -38.15
   LOCATION L0004505     VOLUME   580151.219 3722924.671 -38.11
```

LOCATION L0004506 VOLUME 580152.339 3722928.153 -38.10
LOCATION L0004507 VOLUME 580153.458 3722931.635 -38.10
LOCATION L0004508 VOLUME 580154.577 3722935.118 -38.10
LOCATION L0004509 VOLUME 580155.629 3722938.593 -38.10
LOCATION L0004510 VOLUME 580153.817 3722941.770 -38.10
LOCATION L0004511 VOLUME 580152.004 3722944.947 -38.10
LOCATION L0004512 VOLUME 580150.192 3722948.124 -38.10
LOCATION L0004513 VOLUME 580148.379 3722951.300 -38.10
LOCATION L0004514 VOLUME 580146.567 3722954.477 -38.10
LOCATION L0004515 VOLUME 580144.754 3722957.654 -38.10
LOCATION L0004516 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0004517 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0004518 VOLUME 580139.317 3722967.185 -38.10
LOCATION L0004519 VOLUME 580137.505 3722970.362 -38.10
LOCATION L0004520 VOLUME 580135.692 3722973.539 -38.10
LOCATION L0004521 VOLUME 580133.880 3722976.716 -38.10
LOCATION L0004522 VOLUME 580132.067 3722979.893 -38.10
LOCATION L0004523 VOLUME 580130.255 3722983.070 -38.10
LOCATION L0004524 VOLUME 580128.442 3722986.247 -38.10
LOCATION L0004525 VOLUME 580126.630 3722989.424 -38.09
LOCATION L0004526 VOLUME 580124.817 3722992.601 -38.09
LOCATION L0004527 VOLUME 580123.005 3722995.778 -38.09
LOCATION L0004528 VOLUME 580121.192 3722998.955 -38.10
LOCATION L0004529 VOLUME 580119.380 3723002.132 -38.10
LOCATION L0004530 VOLUME 580117.567 3723005.309 -38.10
LOCATION L0004531 VOLUME 580115.755 3723008.486 -38.10
LOCATION L0004532 VOLUME 580113.943 3723011.663 -38.10
LOCATION L0004533 VOLUME 580112.130 3723014.839 -38.10
LOCATION L0004534 VOLUME 580110.318 3723018.016 -38.08
LOCATION L0004535 VOLUME 580108.505 3723021.193 -38.07
LOCATION L0004536 VOLUME 580106.693 3723024.370 -38.05
LOCATION L0004537 VOLUME 580104.880 3723027.547 -38.04
LOCATION L0004538 VOLUME 580103.068 3723030.724 -38.04
LOCATION L0004539 VOLUME 580101.255 3723033.901 -38.03
LOCATION L0004540 VOLUME 580099.443 3723037.078 -38.04
LOCATION L0004541 VOLUME 580097.630 3723040.255 -38.04
LOCATION L0004542 VOLUME 580095.818 3723043.432 -38.05
LOCATION L0004543 VOLUME 580094.005 3723046.609 -38.05
LOCATION L0004544 VOLUME 580092.193 3723049.786 -38.04
LOCATION L0004545 VOLUME 580090.381 3723052.963 -38.02
LOCATION L0004546 VOLUME 580088.568 3723056.140 -38.00
LOCATION L0004547 VOLUME 580086.756 3723059.317 -37.98
LOCATION L0004548 VOLUME 580084.943 3723062.494 -37.96
LOCATION L0004549 VOLUME 580083.131 3723065.671 -37.95
LOCATION L0004550 VOLUME 580081.318 3723068.848 -37.94
LOCATION L0004551 VOLUME 580079.506 3723072.025 -37.93
LOCATION L0004552 VOLUME 580077.693 3723075.202 -37.93
LOCATION L0004553 VOLUME 580075.881 3723078.378 -37.93
LOCATION L0004554 VOLUME 580074.068 3723081.555 -37.93
LOCATION L0004555 VOLUME 580072.256 3723084.732 -37.92
LOCATION L0004556 VOLUME 580070.443 3723087.909 -37.91
LOCATION L0004557 VOLUME 580068.631 3723091.086 -37.90
LOCATION L0004558 VOLUME 580066.818 3723094.263 -37.89
LOCATION L0004559 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0004560 VOLUME 580063.194 3723100.617 -37.84
LOCATION L0004561 VOLUME 580061.381 3723103.794 -37.81
LOCATION L0004562 VOLUME 580059.569 3723106.971 -37.81
LOCATION L0004563 VOLUME 580057.756 3723110.148 -37.82
LOCATION L0004564 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0004565 VOLUME 580054.131 3723116.502 -37.84

LOCATION L0004566 VOLUME 580052.319 3723119.679 -37.84
LOCATION L0004567 VOLUME 580050.506 3723122.856 -37.84
LOCATION L0004568 VOLUME 580048.694 3723126.033 -37.83
LOCATION L0004569 VOLUME 580046.881 3723129.210 -37.82
LOCATION L0004570 VOLUME 580045.069 3723132.387 -37.81
LOCATION L0004571 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0004572 VOLUME 580041.444 3723138.741 -37.78
LOCATION L0004573 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0004574 VOLUME 580037.819 3723145.094 -37.77
LOCATION L0004575 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0004576 VOLUME 580034.194 3723151.448 -37.78
LOCATION L0004577 VOLUME 580032.382 3723154.625 -37.78
LOCATION L0004578 VOLUME 580030.569 3723157.802 -37.80
LOCATION L0004579 VOLUME 580028.757 3723160.979 -37.78
LOCATION L0004580 VOLUME 580026.944 3723164.156 -37.76
LOCATION L0004581 VOLUME 580025.132 3723167.333 -37.72
LOCATION L0004582 VOLUME 580023.319 3723170.510 -37.67
LOCATION L0004583 VOLUME 580021.489 3723173.677 -37.62
LOCATION L0004584 VOLUME 580019.622 3723176.822 -37.57
LOCATION L0004585 VOLUME 580017.755 3723179.967 -37.52
LOCATION L0004586 VOLUME 580015.888 3723183.112 -37.47
LOCATION L0004587 VOLUME 580014.021 3723186.258 -37.42
LOCATION L0004588 VOLUME 580012.154 3723189.403 -37.36
LOCATION L0004589 VOLUME 580010.287 3723192.548 -37.31
LOCATION L0004590 VOLUME 580008.420 3723195.693 -37.26
LOCATION L0004591 VOLUME 580006.553 3723198.838 -37.22
LOCATION L0004592 VOLUME 580004.686 3723201.984 -37.17
LOCATION L0004593 VOLUME 580002.819 3723205.129 -37.12
LOCATION L0004594 VOLUME 580000.952 3723208.274 -37.06
LOCATION L0004595 VOLUME 579999.085 3723211.419 -37.03
LOCATION L0004596 VOLUME 579997.218 3723214.565 -37.01
LOCATION L0004597 VOLUME 579995.351 3723217.710 -37.00
LOCATION L0004598 VOLUME 579993.484 3723220.855 -36.99
LOCATION L0004599 VOLUME 579991.617 3723224.000 -36.98
LOCATION L0004600 VOLUME 579989.750 3723227.145 -36.98
LOCATION L0004601 VOLUME 579987.883 3723230.291 -36.99
LOCATION L0004602 VOLUME 579986.016 3723233.436 -36.99
LOCATION L0004603 VOLUME 579984.149 3723236.581 -36.99
LOCATION L0004604 VOLUME 579982.282 3723239.726 -36.98
LOCATION L0004605 VOLUME 579980.415 3723242.871 -36.97
LOCATION L0004606 VOLUME 579978.548 3723246.017 -36.95
LOCATION L0004607 VOLUME 579976.681 3723249.162 -36.93
LOCATION L0004608 VOLUME 579974.814 3723252.307 -36.91
LOCATION L0004609 VOLUME 579972.947 3723255.452 -36.88
LOCATION L0004610 VOLUME 579971.080 3723258.598 -36.85
LOCATION L0004611 VOLUME 579969.213 3723261.743 -36.80
LOCATION L0004612 VOLUME 579967.346 3723264.888 -36.75
LOCATION L0004613 VOLUME 579965.479 3723268.033 -36.70
LOCATION L0004614 VOLUME 579963.612 3723271.178 -36.65
LOCATION L0004615 VOLUME 579961.745 3723274.324 -36.60
LOCATION L0004616 VOLUME 579959.879 3723277.469 -36.55
LOCATION L0004617 VOLUME 579958.012 3723280.614 -36.50
LOCATION L0004618 VOLUME 579956.145 3723283.759 -36.45
LOCATION L0004619 VOLUME 579954.278 3723286.904 -36.40
LOCATION L0004620 VOLUME 579952.411 3723290.050 -36.37
LOCATION L0004621 VOLUME 579950.544 3723293.195 -36.35
LOCATION L0004622 VOLUME 579948.677 3723296.340 -36.32
LOCATION L0004623 VOLUME 579946.810 3723299.485 -36.30
LOCATION L0004624 VOLUME 579944.943 3723302.631 -36.29
LOCATION L0004625 VOLUME 579943.076 3723305.776 -36.28

LOCATION L0004626 VOLUME 579941.209 3723308.921 -36.27
LOCATION L0004627 VOLUME 579939.342 3723312.066 -36.27
LOCATION L0004628 VOLUME 579937.475 3723315.211 -36.27
LOCATION L0004629 VOLUME 579935.608 3723318.357 -36.27
LOCATION L0004630 VOLUME 579933.741 3723321.502 -36.27
LOCATION L0004631 VOLUME 579931.874 3723324.647 -36.27
LOCATION L0004632 VOLUME 579930.007 3723327.792 -36.27
LOCATION L0004633 VOLUME 579928.140 3723330.937 -36.27
LOCATION L0004634 VOLUME 579926.273 3723334.083 -36.27
LOCATION L0004635 VOLUME 579924.406 3723337.228 -36.27
LOCATION L0004636 VOLUME 579922.539 3723340.373 -36.27
LOCATION L0004637 VOLUME 579920.672 3723343.518 -36.27
LOCATION L0004638 VOLUME 579918.805 3723346.664 -36.27
LOCATION L0004639 VOLUME 579916.938 3723349.809 -36.27
LOCATION L0004640 VOLUME 579915.071 3723352.954 -36.27
LOCATION L0004641 VOLUME 579913.204 3723356.099 -36.27
LOCATION L0004642 VOLUME 579911.337 3723359.244 -36.27
LOCATION L0004643 VOLUME 579909.470 3723362.390 -36.27
LOCATION L0004644 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0004645 VOLUME 579905.871 3723368.758 -36.27
LOCATION L0004646 VOLUME 579904.085 3723371.950 -36.27
LOCATION L0004647 VOLUME 579902.299 3723375.142 -36.27
LOCATION L0004648 VOLUME 579900.513 3723378.334 -36.27
LOCATION L0004649 VOLUME 579898.728 3723381.526 -36.27
LOCATION L0004650 VOLUME 579896.942 3723384.718 -36.27
LOCATION L0004651 VOLUME 579895.156 3723387.910 -36.27
LOCATION L0004652 VOLUME 579893.370 3723391.102 -36.27
LOCATION L0004653 VOLUME 579891.584 3723394.294 -36.27
LOCATION L0004654 VOLUME 579889.799 3723397.486 -36.27
LOCATION L0004655 VOLUME 579888.013 3723400.678 -36.27
LOCATION L0004656 VOLUME 579886.227 3723403.870 -36.27
LOCATION L0004657 VOLUME 579884.441 3723407.062 -36.27
LOCATION L0004658 VOLUME 579882.655 3723410.254 -36.27
LOCATION L0004659 VOLUME 579880.870 3723413.446 -36.27
LOCATION L0004660 VOLUME 579879.084 3723416.638 -36.26
LOCATION L0004661 VOLUME 579877.298 3723419.830 -36.24
LOCATION L0004662 VOLUME 579875.512 3723423.022 -36.22
LOCATION L0004663 VOLUME 579873.727 3723426.214 -36.20
LOCATION L0004664 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0004665 VOLUME 579870.155 3723432.598 -36.17
LOCATION L0004666 VOLUME 579868.369 3723435.790 -36.15
LOCATION L0004667 VOLUME 579866.583 3723438.982 -36.13
LOCATION L0004668 VOLUME 579864.798 3723442.174 -36.11
LOCATION L0004669 VOLUME 579863.012 3723445.366 -36.09
LOCATION L0004670 VOLUME 579861.226 3723448.558 -36.07
LOCATION L0004671 VOLUME 579859.440 3723451.750 -36.06
LOCATION L0004672 VOLUME 579857.655 3723454.942 -36.04
LOCATION L0004673 VOLUME 579855.869 3723458.134 -36.02
LOCATION L0004674 VOLUME 579854.083 3723461.327 -36.00
LOCATION L0004675 VOLUME 579852.297 3723464.519 -35.98
LOCATION L0004676 VOLUME 579850.511 3723467.711 -35.99
LOCATION L0004677 VOLUME 579848.726 3723470.903 -36.04
LOCATION L0004678 VOLUME 579846.940 3723474.095 -36.08
LOCATION L0004679 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0004680 VOLUME 579843.368 3723480.479 -36.16
LOCATION L0004681 VOLUME 579841.582 3723483.671 -36.19
LOCATION L0004682 VOLUME 579839.797 3723486.863 -36.22
LOCATION L0004683 VOLUME 579838.011 3723490.055 -36.24
LOCATION L0004684 VOLUME 579836.225 3723493.247 -36.26
LOCATION L0004685 VOLUME 579834.439 3723496.439 -36.26

```
   LOCATION L0004686     VOLUME   579832.654 3723499.631 -36.23
   LOCATION L0004687     VOLUME   579830.868 3723502.823 -36.20
   LOCATION L0004688     VOLUME   579829.082 3723506.015 -36.16
   LOCATION L0004689     VOLUME   579827.296 3723509.207 -36.13
   LOCATION L0004690     VOLUME   579825.510 3723512.399 -36.10
   LOCATION L0004691     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0004692     VOLUME   579821.939 3723518.783 -36.03
   LOCATION L0004693     VOLUME   579820.153 3723521.975 -36.00
   LOCATION L0004694     VOLUME   579818.367 3723525.167 -35.97
   LOCATION L0004695     VOLUME   579816.581 3723528.359 -35.97
   LOCATION L0004696     VOLUME   579814.796 3723531.551 -35.97
   LOCATION L0004697     VOLUME   579813.010 3723534.743 -35.97
   LOCATION L0004698     VOLUME   579811.224 3723537.935 -35.97
   LOCATION L0004699     VOLUME   579809.438 3723541.127 -35.97
   LOCATION L0004700     VOLUME   579807.653 3723544.319 -35.97
   LOCATION L0004701     VOLUME   579805.867 3723547.511 -35.97
   LOCATION L0004702     VOLUME   579804.081 3723550.703 -35.97
   LOCATION L0004703     VOLUME   579802.295 3723553.895 -35.97
   LOCATION L0004704     VOLUME   579800.509 3723557.087 -35.97
   LOCATION L0004705     VOLUME   579798.724 3723560.279 -35.97
   LOCATION L0004706     VOLUME   579796.938 3723563.471 -35.97
   LOCATION L0004707     VOLUME   579795.152 3723566.663 -35.97
   LOCATION L0004708     VOLUME   579793.366 3723569.855 -35.97
   LOCATION L0004709     VOLUME   579791.580 3723573.047 -35.97
   LOCATION L0004710     VOLUME   579789.795 3723576.239 -35.97
   LOCATION L0004711     VOLUME   579788.009 3723579.431 -35.97
   LOCATION L0004712     VOLUME   579786.223 3723582.623 -35.97
   LOCATION L0004713     VOLUME   579784.437 3723585.815 -35.97
   LOCATION L0004714     VOLUME   579782.652 3723589.007 -35.97
   LOCATION L0004715     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 2.29E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0004716     VOLUME   580071.719 3722811.433 -38.86
   LOCATION L0004717     VOLUME   580059.528 3722811.353 -38.96
   LOCATION L0004718     VOLUME   580047.336 3722811.272 -38.98
   LOCATION L0004719     VOLUME   580035.144 3722811.191 -39.01
   LOCATION L0004720     VOLUME   580022.952 3722811.110 -39.01
   LOCATION L0004721     VOLUME   580010.761 3722811.030 -39.01
   LOCATION L0004722     VOLUME   579998.569 3722810.949 -38.98
   LOCATION L0004723     VOLUME   579986.377 3722810.868 -38.75
   LOCATION L0004724     VOLUME   579974.185 3722810.787 -38.53
   LOCATION L0004725     VOLUME   579961.994 3722810.707 -38.44
```

```
   LOCATION L0004726     VOLUME   579949.802 3722810.626 -38.42
   LOCATION L0004727     VOLUME   579937.610 3722810.545 -38.38
   LOCATION L0004728     VOLUME   579925.422 3722810.683 -38.28
   LOCATION L0004729     VOLUME   579913.238 3722811.125 -38.18
   LOCATION L0004730     VOLUME   579901.054 3722811.567 -38.07
   LOCATION L0004731     VOLUME   579888.870 3722812.009 -37.95
   LOCATION L0004732     VOLUME   579876.686 3722812.451 -37.79
   LOCATION L0004733     VOLUME   579864.502 3722812.893 -37.54
   LOCATION L0004734     VOLUME   579852.318 3722813.335 -37.30
   LOCATION L0004735     VOLUME   579840.134 3722813.777 -37.24
   LOCATION L0004736     VOLUME   579827.950 3722814.219 -37.21
   LOCATION L0004737     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0004738     VOLUME   579803.582 3722815.103 -37.07
   LOCATION L0004739     VOLUME   579791.398 3722815.545 -36.99
   LOCATION L0004740     VOLUME   579779.214 3722815.987 -36.83
   LOCATION L0004741     VOLUME   579767.030 3722816.429 -36.67
   LOCATION L0004742     VOLUME   579754.846 3722816.871 -36.52
   LOCATION L0004743     VOLUME   579742.662 3722817.313 -36.39
   LOCATION L0004744     VOLUME   579730.478 3722817.755 -36.27
   LOCATION L0004745     VOLUME   579718.290 3722818.032 -36.20
   LOCATION L0004746     VOLUME   579706.099 3722818.153 -36.13
   LOCATION L0004747     VOLUME   579693.907 3722818.273 -36.07
   LOCATION L0004748     VOLUME   579681.716 3722818.394 -36.02
   LOCATION L0004749     VOLUME   579669.525 3722818.515 -35.97
   LOCATION L0004750     VOLUME   579657.333 3722818.632 -35.97
   LOCATION L0004751     VOLUME   579645.141 3722818.604 -35.97
   LOCATION L0004752     VOLUME   579632.949 3722818.575 -36.01
   LOCATION L0004753     VOLUME   579620.757 3722818.546 -36.08
   LOCATION L0004754     VOLUME   579608.565 3722818.517 -36.14
   LOCATION L0004755     VOLUME   579596.373 3722818.489 -36.14
   LOCATION L0004756     VOLUME   579584.181 3722818.460 -36.14
   LOCATION L0004757     VOLUME   579571.989 3722818.431 -36.14
   LOCATION L0004758     VOLUME   579559.797 3722818.402 -36.14
   LOCATION L0004759     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0004760     VOLUME   579535.413 3722818.345 -36.14
   LOCATION L0004761     VOLUME   579523.222 3722818.316 -36.14
   LOCATION L0004762     VOLUME   579511.030 3722818.287 -36.14
   LOCATION L0004763     VOLUME   579498.838 3722818.259 -36.14
   LOCATION L0004764     VOLUME   579486.646 3722818.230 -36.14
   LOCATION L0004765     VOLUME   579474.454 3722818.201 -36.14
   LOCATION L0004766     VOLUME   579462.262 3722818.172 -36.14
   LOCATION L0004767     VOLUME   579450.070 3722818.144 -36.19
   LOCATION L0004768     VOLUME   579437.887 3722817.853 -36.24
   LOCATION L0004769     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0004770     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0004771     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0004772     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0004773     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0004774     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0004775     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0004776     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0004777     VOLUME   579328.379 3722811.085 -36.25
   LOCATION L0004778     VOLUME   579316.188 3722810.942 -36.23
   LOCATION L0004779     VOLUME   579303.997 3722810.798 -36.22
   LOCATION L0004780     VOLUME   579291.805 3722810.655 -36.22
   LOCATION L0004781     VOLUME   579279.614 3722810.511 -36.21
   LOCATION L0004782     VOLUME   579267.423 3722810.368 -36.11
   LOCATION L0004783     VOLUME   579255.232 3722810.225 -36.01
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 5.36E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0004784     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0004785     VOLUME   580104.836 3722811.157 -38.71
   LOCATION L0004786     VOLUME   580117.026 3722810.998 -38.71
   LOCATION L0004787     VOLUME   580129.217 3722810.838 -38.62
   LOCATION L0004788     VOLUME   580141.408 3722810.679 -38.50
   LOCATION L0004789     VOLUME   580153.599 3722810.520 -38.40
   LOCATION L0004790     VOLUME   580165.790 3722810.361 -38.40
   LOCATION L0004791     VOLUME   580177.981 3722810.202 -38.40
   LOCATION L0004792     VOLUME   580190.172 3722810.043 -38.39
   LOCATION L0004793     VOLUME   580202.363 3722809.884 -38.37
   LOCATION L0004794     VOLUME   580214.554 3722809.725 -38.33
   LOCATION L0004795     VOLUME   580226.745 3722809.687 -38.22
   LOCATION L0004796     VOLUME   580238.937 3722809.784 -38.11
   LOCATION L0004797     VOLUME   580251.129 3722809.881 -38.10
   LOCATION L0004798     VOLUME   580263.320 3722809.978 -38.10
   LOCATION L0004799     VOLUME   580275.512 3722810.075 -38.09
   LOCATION L0004800     VOLUME   580287.704 3722810.172 -38.07
   LOCATION L0004801     VOLUME   580299.895 3722810.269 -38.05
   LOCATION L0004802     VOLUME   580312.087 3722810.366 -37.85
   LOCATION L0004803     VOLUME   580324.278 3722810.463 -37.65
   LOCATION L0004804     VOLUME   580336.470 3722810.560 -37.53
   LOCATION L0004805     VOLUME   580348.662 3722810.657 -37.51
   LOCATION L0004806     VOLUME   580360.853 3722810.754 -37.49
   LOCATION L0004807     VOLUME   580373.045 3722810.851 -37.49
   LOCATION L0004808     VOLUME   580385.236 3722810.947 -37.49
   LOCATION L0004809     VOLUME   580397.428 3722811.044 -37.41
   LOCATION L0004810     VOLUME   580409.620 3722811.141 -37.26
   LOCATION L0004811     VOLUME   580421.811 3722811.238 -37.12
   LOCATION L0004812     VOLUME   580434.003 3722811.335 -37.02
   LOCATION L0004813     VOLUME   580446.195 3722811.432 -36.92
   LOCATION L0004814     VOLUME   580458.386 3722811.529 -36.88
   LOCATION L0004815     VOLUME   580470.578 3722811.626 -36.88
   LOCATION L0004816     VOLUME   580482.769 3722811.723 -36.88
   LOCATION L0004817     VOLUME   580494.961 3722811.820 -36.88
   LOCATION L0004818     VOLUME   580507.153 3722811.917 -36.88
   LOCATION L0004819     VOLUME   580519.344 3722812.014 -36.97
   LOCATION L0004820     VOLUME   580531.536 3722812.111 -37.09
   LOCATION L0004821     VOLUME   580543.727 3722812.208 -37.19
   LOCATION L0004822     VOLUME   580555.919 3722812.305 -37.19
   LOCATION L0004823     VOLUME   580568.111 3722812.402 -37.19
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING1      POINT      579805.150  3723587.850      -35.970
** DESCRSRC Truck Idling at LW-1A
   LOCATION IDLING2      POINT      579874.040  3723475.220      -36.230
** DESCRSRC Truck Idling at LW-1B
   LOCATION IDLING3      POINT      579883.560  3723455.580      -36.270
```

```
** DESCRSRC Truck Idling at LW-2
   LOCATION IDLING4      POINT      579760.060  3723570.450      -35.970
** DESCRSRC Truck Idling at LW-3A
   LOCATION IDLING5      POINT      579788.530  3723421.660      -36.120
** DESCRSRC Truck Idling at LW-3B
   LOCATION IDLING6      POINT      579808.320  3723334.150      -35.850
** DESCRSRC Truck Idling at LW-4
** Source Parameters **
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0004227     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004228     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004229     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004230     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004231     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004232     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004233     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004234     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004235     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004236     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004237     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004238     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004239     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004240     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004241     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004242     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004243     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004244     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004245     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004246     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004247     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004248     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004249     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004250     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004251     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004252     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004253     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004254     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004255     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004256     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004257     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004258     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004259     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004260     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004261     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004262     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004263     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004264     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004265     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004266     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004267     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004268     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004269     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004270     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004271     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004272     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004273     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004274     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004275     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004276     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004277     0.00000004701      0.00      1.70      0.85
```

```
SRCPARAM L0004278     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004279     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004280     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004281     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004282     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004283     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004284     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004285     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004286     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004287     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004288     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004289     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004290     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004291     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004292     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004293     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004294     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004295     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004296     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004297     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004298     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004299     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004300     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004301     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004302     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004303     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004304     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004305     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004306     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004307     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004308     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004309     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004310     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004311     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004312     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004313     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004314     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004315     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004316     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004317     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004318     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004319     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004320     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004321     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004322     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004323     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004324     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004325     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004326     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004327     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004328     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004329     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004330     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004331     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004332     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004333     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004334     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004335     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004336     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004337     0.00000004701      0.00      1.70      0.85
```

```
SRCPARAM L0004338     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004339     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004340     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004341     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004342     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004343     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004344     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004345     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004346     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004347     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004348     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004349     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004350     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004351     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004352     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004353     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004354     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004355     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004356     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004357     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004358     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004359     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004360     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004361     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004362     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004363     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004364     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004365     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004366     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004367     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004368     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004369     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004370     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004371     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004372     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004373     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004374     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004375     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004376     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004377     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004378     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004379     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004380     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004381     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004382     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004383     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004384     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004385     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004386     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004387     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004388     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004389     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004390     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004391     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004392     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004393     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004394     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004395     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004396     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004397     0.00000004701      0.00      1.70      0.85
```

```
SRCPARAM L0004398     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004399     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004400     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004401     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004402     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004403     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004404     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004405     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004406     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004407     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004408     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004409     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004410     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004411     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004412     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004413     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004414     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004415     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004416     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004417     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004418     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004419     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004420     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004421     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004422     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004423     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004424     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004425     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004426     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004427     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004428     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004429     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004430     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004431     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004432     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004433     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004434     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004435     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004436     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004437     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004438     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004439     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004440     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004441     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004442     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004443     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004444     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004445     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004446     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004447     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004448     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004449     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004450     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004451     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004452     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004453     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004454     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004455     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004456     0.00000004701      0.00      1.70      0.85
SRCPARAM L0004457     0.00000004701      0.00      1.70      0.85
```

```
   SRCPARAM L0004458     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004459     0.00000004701      0.00      1.70      0.85
   SRCPARAM L0004460     0.00000004701      0.00      1.70      0.85
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0004461     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004462     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004463     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004464     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004465     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004466     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004467     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004468     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004469     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004470     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004471     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004472     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004473     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004474     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004475     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004476     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004477     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004478     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004479     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004480     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004481     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004482     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004483     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004484     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004485     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004486     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004487     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004488     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004489     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004490     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004491     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004492     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004493     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004494     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004495     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004496     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004497     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004498     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004499     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004500     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004501     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004502     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004503     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004504     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004505     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004506     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004507     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004508     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004509     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004510     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004511     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004512     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004513     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004514     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004515     0.00000004667      0.00      1.70      0.85
```

```
SRCPARAM L0004516     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004517     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004518     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004519     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004520     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004521     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004522     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004523     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004524     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004525     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004526     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004527     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004528     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004529     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004530     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004531     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004532     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004533     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004534     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004535     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004536     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004537     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004538     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004539     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004540     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004541     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004542     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004543     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004544     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004545     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004546     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004547     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004548     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004549     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004550     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004551     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004552     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004553     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004554     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004555     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004556     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004557     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004558     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004559     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004560     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004561     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004562     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004563     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004564     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004565     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004566     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004567     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004568     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004569     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004570     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004571     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004572     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004573     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004574     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004575     0.00000004667      0.00      1.70      0.85
```

```
SRCPARAM L0004576     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004577     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004578     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004579     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004580     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004581     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004582     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004583     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004584     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004585     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004586     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004587     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004588     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004589     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004590     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004591     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004592     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004593     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004594     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004595     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004596     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004597     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004598     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004599     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004600     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004601     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004602     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004603     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004604     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004605     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004606     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004607     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004608     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004609     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004610     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004611     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004612     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004613     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004614     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004615     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004616     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004617     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004618     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004619     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004620     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004621     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004622     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004623     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004624     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004625     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004626     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004627     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004628     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004629     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004630     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004631     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004632     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004633     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004634     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004635     0.00000004667      0.00      1.70      0.85
```

```
SRCPARAM L0004636     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004637     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004638     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004639     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004640     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004641     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004642     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004643     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004644     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004645     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004646     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004647     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004648     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004649     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004650     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004651     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004652     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004653     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004654     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004655     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004656     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004657     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004658     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004659     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004660     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004661     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004662     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004663     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004664     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004665     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004666     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004667     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004668     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004669     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004670     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004671     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004672     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004673     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004674     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004675     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004676     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004677     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004678     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004679     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004680     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004681     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004682     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004683     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004684     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004685     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004686     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004687     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004688     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004689     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004690     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004691     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004692     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004693     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004694     0.00000004667      0.00      1.70      0.85
SRCPARAM L0004695     0.00000004667      0.00      1.70      0.85
```

```
   SRCPARAM L0004696     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004697     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004698     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004699     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004700     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004701     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004702     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004703     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004704     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004705     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004706     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004707     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004708     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004709     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004710     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004711     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004712     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004713     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004714     0.00000004667      0.00      1.70      0.85
   SRCPARAM L0004715     0.00000004667      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0004716     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004717     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004718     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004719     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004720     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004721     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004722     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004723     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004724     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004725     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004726     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004727     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004728     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004729     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004730     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004731     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004732     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004733     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004734     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004735     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004736     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004737     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004738     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004739     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004740     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004741     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004742     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004743     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004744     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004745     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004746     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004747     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004748     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004749     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004750     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004751     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004752     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004753     0.00000003368      0.00      5.67      0.85
```

```
   SRCPARAM L0004754     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004755     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004756     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004757     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004758     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004759     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004760     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004761     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004762     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004763     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004764     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004765     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004766     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004767     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004768     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004769     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004770     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004771     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004772     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004773     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004774     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004775     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004776     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004777     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004778     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004779     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004780     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004781     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004782     0.00000003368      0.00      5.67      0.85
   SRCPARAM L0004783     0.00000003368      0.00      5.67      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0004784     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004785     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004786     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004787     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004788     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004789     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004790     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004791     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004792     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004793     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004794     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004795     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004796     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004797     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004798     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004799     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004800     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004801     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004802     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004803     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004804     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004805     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004806     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004807     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004808     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004809     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004810     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004811     0.000000134      0.00      5.67      0.85
```

```
   SRCPARAM L0004812     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004813     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004814     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004815     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004816     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004817     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004818     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004819     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004820     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004821     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004822     0.000000134      0.00      5.67      0.85
   SRCPARAM L0004823     0.000000134      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING1      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING2      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING3      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING4      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING5      0.0000172     3.840   366.000        50       0.1
   SRCPARAM IDLING6      0.0000172     3.840   366.000        50       0.1

** Building Downwash **
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
```

BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDWID IDLING1	110.05	125.30	136.75	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING1	0.00	0.00	0.00	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	99.31	97.41	92.56	84.90	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	114.62	124.05	133.42	138.75	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING3	99.31	97.41	92.56	84.90	74.65	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING3	114.62	124.05	133.42	138.75	236.70	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	0.00	0.00	0.00	136.59	131.11	121.66
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	92.06	72.81	87.10	94.07	98.18
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDLEN IDLING1	136.59	131.11	121.66	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING1	0.00	0.00	0.00	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	96.68	99.17	98.64	95.12	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	115.88	109.29	99.39	86.46	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN IDLING3	96.68	99.17	98.64	95.12	88.71	55.76

BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN	IDLING3	115.88	109.29	99.39	86.46	92.38	55.76
BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	0.00	0.00	0.00	110.05	125.30	136.75
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	146.95	145.39	72.33	83.05	91.25
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
XBADJ	IDLING1	-166.84	-164.57	-157.29	-48.98	-27.99	-6.15
XBADJ	IDLING1	-0.37	2.37	5.04	7.56	9.65	7.73
XBADJ	IDLING1	5.58	3.26	0.85	-1.60	-4.00	-6.47
XBADJ	IDLING1	0.00	0.00	0.00	-37.47	-42.91	-47.05
XBADJ	IDLING1	-67.28	-88.46	-106.94	-122.17	-133.70	-141.16
XBADJ	IDLING1	-144.33	-143.11	-137.55	-131.81	-122.74	-112.47
XBADJ	IDLING2	-159.04	-162.04	-160.12	-153.33	-8.37	-9.50
XBADJ	IDLING2	-26.58	-45.91	-63.85	-79.85	-93.61	-108.24
XBADJ	IDLING2	-119.59	-127.30	-131.14	-131.00	-126.88	-119.10
XBADJ	IDLING2	-114.11	-105.66	-93.99	-79.47	-62.54	-43.70
XBADJ	IDLING2	-41.07	-40.17	-38.05	-34.77	-30.44	-25.18
XBADJ	IDLING2	-19.16	-12.55	-5.57	-2.41	0.14	-151.21
XBADJ	IDLING3	-141.35	-146.84	-147.87	-144.40	-136.55	-10.48
XBADJ	IDLING3	-28.81	-51.88	-73.37	-92.63	-109.27	-126.31
XBADJ	IDLING3	-139.50	-148.46	-152.91	-152.71	-147.87	-138.74
XBADJ	IDLING3	-131.80	-120.86	-106.24	-88.40	-67.87	-45.28
XBADJ	IDLING3	-53.37	-65.49	-75.62	-83.45	-88.75	-7.12
XBADJ	IDLING3	0.76	8.61	16.20	19.30	21.13	-131.57
XBADJ	IDLING4	-141.87	-132.79	-119.68	-102.93	-83.05	0.00
XBADJ	IDLING4	0.00	0.00	0.00	-4.55	-1.97	0.67
XBADJ	IDLING4	28.94	18.92	8.14	10.24	11.91	8.73
XBADJ	IDLING4	5.28	1.68	-1.98	-5.58	-9.00	0.00
XBADJ	IDLING4	-115.61	-135.88	-152.03	-163.56	-170.12	-171.51
XBADJ	IDLING4	-167.69	-255.61	-153.54	-156.69	-156.13	-150.83
XBADJ	IDLING5	-91.45	-2.71	-5.06	-7.25	-9.22	-10.91
XBADJ	IDLING5	-12.27	-13.26	-2.29	5.47	13.06	20.26
XBADJ	IDLING5	26.84	-126.48	-134.95	28.73	17.84	6.40
XBADJ	IDLING5	-5.23	-128.40	-116.60	-101.26	-82.84	-61.90
XBADJ	IDLING5	-59.56	-58.67	-95.89	-104.78	-110.48	-112.82

```
   XBADJ    IDLING5       -111.74  -107.26   -99.53  -101.06  -100.89   -97.65

   XBADJ    IDLING6         -8.70    -7.00    -5.09    -3.02    -0.86     1.33
   XBADJ    IDLING6         -6.03   -14.27   -22.08   -29.21   -35.46   -40.63
   XBADJ    IDLING6        -44.57   -47.15   -48.30   -60.27   -71.78   -81.11
   XBADJ    IDLING6        -87.97   -92.17   -93.56   -92.11   -87.86   -80.94
   XBADJ    IDLING6        -81.07   -79.80   -76.10   -70.09   -61.95   -51.93
   XBADJ    IDLING6        -40.33   -27.51   -13.84   -12.06   -11.27   -10.14

   YBADJ    IDLING1         -9.09   -24.26   -38.69   -74.96   -73.19   -69.20
   YBADJ    IDLING1        -65.11   -59.37   -53.00   -42.78   -31.26   -18.79
   YBADJ    IDLING1         -5.75     7.46    20.45    33.46    45.41    55.99
   YBADJ    IDLING1          0.00     0.00     0.00    74.96    73.19    69.20
   YBADJ    IDLING1         65.10    59.37    53.00    42.78    31.26    18.79
   YBADJ    IDLING1          5.75    -7.46   -20.45   -33.46   -45.41   -55.99

   YBADJ    IDLING2         19.79     0.26   -19.27   -38.22    57.37    62.79
   YBADJ    IDLING2         64.29    63.51    59.63    56.17    51.01    44.30
   YBADJ    IDLING2         36.24    27.08    17.10     7.24    -2.87   -12.90
   YBADJ    IDLING2        -22.54   -31.58   -41.53   -50.21   -57.37   -62.79
   YBADJ    IDLING2        -64.29   -63.51   -59.63   -56.17   -51.01   -44.30
   YBADJ    IDLING2        -36.24   -27.08   -17.10    -7.24     2.87    38.71

   YBADJ    IDLING3         32.57    15.93    -1.20   -18.30   -34.84    35.15
   YBADJ    IDLING3         35.20    33.74    31.36    31.23    30.15    56.55
   YBADJ    IDLING3         45.17    32.42    18.68     5.01    -8.84   -22.42
   YBADJ    IDLING3        -35.32   -47.25   -59.59   -70.13   -30.11   -35.15
   YBADJ    IDLING3        -35.20   -33.74   -31.36   -31.23   -30.15   -56.55
   YBADJ    IDLING3        -45.17   -32.42   -18.68    -5.01     8.84    48.23

   YBADJ    IDLING4        -50.48   -60.68   -69.04   -75.30   -79.28     0.00
   YBADJ    IDLING4          0.00     0.00     0.00   -73.58   -67.24   -58.85
   YBADJ    IDLING4         36.56    42.45   -24.25    -0.49    24.91    38.74
   YBADJ    IDLING4         50.48    60.68    69.04    75.30    79.28     0.00
   YBADJ    IDLING4         64.18    50.07    35.60    17.82    -0.51   -18.82
   YBADJ    IDLING4        -36.56   -42.45    24.25     0.49   -24.91   -38.74

   YBADJ    IDLING5        -55.12    16.96    30.01    42.15    53.00    62.25
   YBADJ    IDLING5         66.09    67.45   -52.02   -43.11   -32.88   -21.65
   YBADJ    IDLING5         -9.77    36.81    25.49    26.18    37.05    46.80
   YBADJ    IDLING5         55.12   -16.96   -30.01   -42.15   -53.00   -62.25
   YBADJ    IDLING5        -66.09   -67.45    52.02    43.11    32.88    21.65
   YBADJ    IDLING5          9.77    -2.41   -14.52   -26.18   -37.06   -46.80

   YBADJ    IDLING6        -20.44   -13.24    -5.65     2.12     9.82    17.23
   YBADJ    IDLING6         24.11    30.26    35.48    39.64    42.58    44.24
   YBADJ    IDLING6         44.54    43.50    41.13    37.52    32.76    27.01
   YBADJ    IDLING6         20.44    13.24     5.65    -2.12    -9.82   -17.23
   YBADJ    IDLING6        -24.11   -30.26   -35.49   -39.64   -42.58   -44.24
   YBADJ    IDLING6        -44.54   -43.50   -41.13   -37.52   -32.76   -27.01

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
```

```
RE STARTING
   INCLUDED DPM42-54.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST DPM42-54.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL DPM42-54.AD\PE00GALL.PLT 32
   SUMMFILE DPM42-54.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

* MODELING OPTIONS USED: CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 11 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
580086.00000	3722773.00000	0.00129	-39.01	-39.01	0.00	PERIOD	ALL	00043800	
580122.00000	3722774.00000	0.00145	-38.71	-38.71	0.00	PERIOD	ALL	00043800	
580172.00000	3722775.00000	0.00135	-38.50	-38.50	0.00	PERIOD	ALL	00043800	
580242.00000	3722717.00000	0.00077	-38.40	-38.40	0.00	PERIOD	ALL	00043800	
580289.00000	3722738.00000	0.00081	-37.99	-37.99	0.00	PERIOD	ALL	00043800	
580337.00000	3722732.00000	0.00072	-37.80	-37.80	0.00	PERIOD	ALL	00043800	
579963.00000	3722704.00000	0.00065	-36.08	-36.08	0.00	PERIOD	ALL	00043800	
579927.00000	3722644.00000	0.00050	-36.33	-36.33	0.00	PERIOD	ALL	00043800	
579519.00000	3722783.00000	0.00035	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579466.00000	3722781.00000	0.00031	-36.27	-36.27	0.00	PERIOD	ALL	00043800	
579393.00000	3722779.00000	0.00028	-36.27	-36.27	0.00	PERIOD	ALL	00043800	

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

APPENDIX H

AERMOD Model Site Preparation PM2.5 Emissions Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 10/1/2025
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\Constr24All\Constr24All.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park-Site Preparation DPM+Fugitive Dust
   TITLETWO PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL Constr24All.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 6.35E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0004227 VOLUME 580076.882 3722821.514 -38.85
LOCATION L0004228 VOLUME 580076.385 3722825.138 -38.82
LOCATION L0004229 VOLUME 580075.889 3722828.761 -38.78
LOCATION L0004230 VOLUME 580074.448 3722832.047 -38.77
LOCATION L0004231 VOLUME 580072.532 3722835.163 -38.76
LOCATION L0004232 VOLUME 580070.616 3722838.278 -38.76
LOCATION L0004233 VOLUME 580068.700 3722841.394 -38.76
LOCATION L0004234 VOLUME 580066.784 3722844.510 -38.75
LOCATION L0004235 VOLUME 580064.868 3722847.625 -38.75
LOCATION L0004236 VOLUME 580062.953 3722850.741 -38.75
LOCATION L0004237 VOLUME 580061.037 3722853.857 -38.74
LOCATION L0004238 VOLUME 580059.121 3722856.973 -38.74
LOCATION L0004239 VOLUME 580057.205 3722860.088 -38.73
LOCATION L0004240 VOLUME 580055.289 3722863.204 -38.73
LOCATION L0004241 VOLUME 580053.282 3722866.261 -38.75
LOCATION L0004242 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0004243 VOLUME 580049.160 3722872.303 -38.82
LOCATION L0004244 VOLUME 580047.098 3722875.325 -38.86
LOCATION L0004245 VOLUME 580045.070 3722878.368 -38.88
LOCATION L0004246 VOLUME 580043.095 3722881.447 -38.88
LOCATION L0004247 VOLUME 580041.120 3722884.525 -38.87
LOCATION L0004248 VOLUME 580039.145 3722887.604 -38.87
LOCATION L0004249 VOLUME 580037.169 3722890.682 -38.87
LOCATION L0004250 VOLUME 580035.194 3722893.760 -38.86
LOCATION L0004251 VOLUME 580033.219 3722896.839 -38.86
LOCATION L0004252 VOLUME 580031.243 3722899.917 -38.86
LOCATION L0004253 VOLUME 580029.268 3722902.995 -38.85
LOCATION L0004254 VOLUME 580027.293 3722906.074 -38.85
LOCATION L0004255 VOLUME 580025.318 3722909.152 -38.85
LOCATION L0004256 VOLUME 580023.342 3722912.230 -38.84
LOCATION L0004257 VOLUME 580021.367 3722915.309 -38.84
LOCATION L0004258 VOLUME 580019.392 3722918.387 -38.84
LOCATION L0004259 VOLUME 580017.417 3722921.466 -38.83
LOCATION L0004260 VOLUME 580015.441 3722924.544 -38.83
LOCATION L0004261 VOLUME 580013.466 3722927.622 -38.83
LOCATION L0004262 VOLUME 580011.491 3722930.701 -38.82
LOCATION L0004263 VOLUME 580009.515 3722933.779 -38.82
LOCATION L0004264 VOLUME 580007.540 3722936.857 -38.82
LOCATION L0004265 VOLUME 580005.565 3722939.936 -38.81
LOCATION L0004266 VOLUME 580003.590 3722943.014 -38.81
LOCATION L0004267 VOLUME 580001.614 3722946.092 -38.81
LOCATION L0004268 VOLUME 579999.639 3722949.171 -38.80
LOCATION L0004269 VOLUME 579997.664 3722952.249 -38.80
LOCATION L0004270 VOLUME 579995.689 3722955.328 -38.80
LOCATION L0004271 VOLUME 579993.713 3722958.406 -38.79
LOCATION L0004272 VOLUME 579991.738 3722961.484 -38.79
LOCATION L0004273 VOLUME 579989.763 3722964.563 -38.79
LOCATION L0004274 VOLUME 579987.788 3722967.641 -38.78
LOCATION L0004275 VOLUME 579985.812 3722970.719 -38.78
LOCATION L0004276 VOLUME 579983.837 3722973.798 -38.78
LOCATION L0004277 VOLUME 579981.862 3722976.876 -38.78
LOCATION L0004278 VOLUME 579979.886 3722979.955 -38.77
LOCATION L0004279 VOLUME 579977.911 3722983.033 -38.77
LOCATION L0004280 VOLUME 579975.936 3722986.111 -38.77
LOCATION L0004281 VOLUME 579973.961 3722989.190 -38.76
LOCATION L0004282 VOLUME 579971.985 3722992.268 -38.76
LOCATION L0004283 VOLUME 579970.010 3722995.346 -38.76
LOCATION L0004284 VOLUME 579968.035 3722998.425 -38.75
LOCATION L0004285 VOLUME 579966.060 3723001.503 -38.75
LOCATION L0004286 VOLUME 579964.084 3723004.581 -38.75

LOCATION L0004287 VOLUME 579962.109 3723007.660 -38.74
LOCATION L0004288 VOLUME 579960.134 3723010.738 -38.74
LOCATION L0004289 VOLUME 579958.158 3723013.817 -38.74
LOCATION L0004290 VOLUME 579956.183 3723016.895 -38.73
LOCATION L0004291 VOLUME 579954.208 3723019.973 -38.73
LOCATION L0004292 VOLUME 579952.233 3723023.052 -38.73
LOCATION L0004293 VOLUME 579950.257 3723026.130 -38.72
LOCATION L0004294 VOLUME 579948.282 3723029.208 -38.72
LOCATION L0004295 VOLUME 579946.307 3723032.287 -38.72
LOCATION L0004296 VOLUME 579944.332 3723035.365 -38.71
LOCATION L0004297 VOLUME 579942.356 3723038.443 -38.71
LOCATION L0004298 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0004299 VOLUME 579938.406 3723044.600 -38.70
LOCATION L0004300 VOLUME 579936.430 3723047.679 -38.70
LOCATION L0004301 VOLUME 579934.455 3723050.757 -38.70
LOCATION L0004302 VOLUME 579932.480 3723053.835 -38.69
LOCATION L0004303 VOLUME 579930.505 3723056.914 -38.69
LOCATION L0004304 VOLUME 579928.522 3723059.987 -38.65
LOCATION L0004305 VOLUME 579926.536 3723063.059 -38.60
LOCATION L0004306 VOLUME 579924.550 3723066.130 -38.55
LOCATION L0004307 VOLUME 579922.565 3723069.202 -38.49
LOCATION L0004308 VOLUME 579920.579 3723072.274 -38.44
LOCATION L0004309 VOLUME 579918.594 3723075.346 -38.39
LOCATION L0004310 VOLUME 579916.608 3723078.417 -38.34
LOCATION L0004311 VOLUME 579914.623 3723081.489 -38.28
LOCATION L0004312 VOLUME 579912.637 3723084.561 -38.23
LOCATION L0004313 VOLUME 579910.651 3723087.633 -38.18
LOCATION L0004314 VOLUME 579908.666 3723090.704 -38.13
LOCATION L0004315 VOLUME 579906.680 3723093.776 -38.07
LOCATION L0004316 VOLUME 579904.695 3723096.848 -38.02
LOCATION L0004317 VOLUME 579902.709 3723099.919 -37.97
LOCATION L0004318 VOLUME 579900.723 3723102.991 -37.92
LOCATION L0004319 VOLUME 579898.738 3723106.063 -37.87
LOCATION L0004320 VOLUME 579896.752 3723109.135 -37.81
LOCATION L0004321 VOLUME 579894.767 3723112.206 -37.76
LOCATION L0004322 VOLUME 579892.787 3723115.282 -37.71
LOCATION L0004323 VOLUME 579890.962 3723118.451 -37.65
LOCATION L0004324 VOLUME 579889.136 3723121.621 -37.59
LOCATION L0004325 VOLUME 579887.311 3723124.790 -37.53
LOCATION L0004326 VOLUME 579885.485 3723127.960 -37.47
LOCATION L0004327 VOLUME 579883.660 3723131.129 -37.41
LOCATION L0004328 VOLUME 579881.834 3723134.299 -37.35
LOCATION L0004329 VOLUME 579880.009 3723137.468 -37.29
LOCATION L0004330 VOLUME 579878.183 3723140.638 -37.23
LOCATION L0004331 VOLUME 579876.358 3723143.807 -37.17
LOCATION L0004332 VOLUME 579874.532 3723146.977 -37.11
LOCATION L0004333 VOLUME 579872.707 3723150.146 -37.05
LOCATION L0004334 VOLUME 579870.881 3723153.315 -36.99
LOCATION L0004335 VOLUME 579869.056 3723156.485 -36.93
LOCATION L0004336 VOLUME 579867.230 3723159.654 -36.87
LOCATION L0004337 VOLUME 579865.405 3723162.824 -36.81
LOCATION L0004338 VOLUME 579863.579 3723165.993 -36.75
LOCATION L0004339 VOLUME 579861.754 3723169.163 -36.69
LOCATION L0004340 VOLUME 579859.928 3723172.332 -36.63
LOCATION L0004341 VOLUME 579858.103 3723175.502 -36.57
LOCATION L0004342 VOLUME 579856.277 3723178.671 -36.51
LOCATION L0004343 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0004344 VOLUME 579852.626 3723185.010 -36.39
LOCATION L0004345 VOLUME 579850.801 3723188.180 -36.33
LOCATION L0004346 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0004347 VOLUME 579847.495 3723194.699 -36.27
LOCATION L0004348 VOLUME 579845.942 3723198.010 -36.26
LOCATION L0004349 VOLUME 579844.389 3723201.322 -36.24
LOCATION L0004350 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0004351 VOLUME 579841.283 3723207.945 -36.21
LOCATION L0004352 VOLUME 579839.730 3723211.256 -36.19
LOCATION L0004353 VOLUME 579838.177 3723214.568 -36.18
LOCATION L0004354 VOLUME 579836.624 3723217.879 -36.16
LOCATION L0004355 VOLUME 579835.071 3723221.191 -36.15
LOCATION L0004356 VOLUME 579833.518 3723224.502 -36.13
LOCATION L0004357 VOLUME 579831.965 3723227.814 -36.12
LOCATION L0004358 VOLUME 579830.412 3723231.125 -36.10
LOCATION L0004359 VOLUME 579828.859 3723234.437 -36.09
LOCATION L0004360 VOLUME 579827.306 3723237.749 -36.07
LOCATION L0004361 VOLUME 579825.753 3723241.060 -36.06
LOCATION L0004362 VOLUME 579824.200 3723244.372 -36.04
LOCATION L0004363 VOLUME 579822.743 3723247.722 -36.03
LOCATION L0004364 VOLUME 579821.534 3723251.174 -36.03
LOCATION L0004365 VOLUME 579820.325 3723254.626 -36.02
LOCATION L0004366 VOLUME 579819.115 3723258.078 -36.02
LOCATION L0004367 VOLUME 579817.906 3723261.530 -36.02
LOCATION L0004368 VOLUME 579816.697 3723264.982 -36.02
LOCATION L0004369 VOLUME 579815.488 3723268.434 -36.01
LOCATION L0004370 VOLUME 579814.278 3723271.886 -36.01
LOCATION L0004371 VOLUME 579813.069 3723275.338 -36.01
LOCATION L0004372 VOLUME 579811.860 3723278.790 -36.00
LOCATION L0004373 VOLUME 579810.651 3723282.242 -36.00
LOCATION L0004374 VOLUME 579809.441 3723285.694 -36.00
LOCATION L0004375 VOLUME 579808.232 3723289.145 -36.00
LOCATION L0004376 VOLUME 579807.023 3723292.597 -35.99
LOCATION L0004377 VOLUME 579805.814 3723296.049 -35.99
LOCATION L0004378 VOLUME 579804.604 3723299.501 -35.99
LOCATION L0004379 VOLUME 579803.395 3723302.953 -35.99
LOCATION L0004380 VOLUME 579802.186 3723306.405 -35.98
LOCATION L0004381 VOLUME 579800.977 3723309.857 -35.98
LOCATION L0004382 VOLUME 579799.767 3723313.309 -35.98
LOCATION L0004383 VOLUME 579798.558 3723316.761 -35.98
LOCATION L0004384 VOLUME 579797.349 3723320.213 -35.97
LOCATION L0004385 VOLUME 579796.143 3723323.666 -35.97
LOCATION L0004386 VOLUME 579794.961 3723327.127 -35.97
LOCATION L0004387 VOLUME 579793.780 3723330.589 -35.97
LOCATION L0004388 VOLUME 579792.598 3723334.050 -35.96
LOCATION L0004389 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0004390 VOLUME 579790.235 3723340.973 -35.96
LOCATION L0004391 VOLUME 579789.054 3723344.435 -35.96
LOCATION L0004392 VOLUME 579787.872 3723347.896 -35.96
LOCATION L0004393 VOLUME 579786.691 3723351.358 -35.96
LOCATION L0004394 VOLUME 579785.509 3723354.819 -35.95
LOCATION L0004395 VOLUME 579784.328 3723358.281 -35.95
LOCATION L0004396 VOLUME 579783.146 3723361.743 -35.95
LOCATION L0004397 VOLUME 579781.997 3723365.213 -35.95
LOCATION L0004398 VOLUME 579781.206 3723368.784 -35.95
LOCATION L0004399 VOLUME 579780.415 3723372.355 -35.96
LOCATION L0004400 VOLUME 579779.624 3723375.926 -35.96
LOCATION L0004401 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0004402 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0004403 VOLUME 579777.251 3723386.639 -35.98
LOCATION L0004404 VOLUME 579776.460 3723390.210 -35.98
LOCATION L0004405 VOLUME 579775.670 3723393.781 -35.98
LOCATION L0004406 VOLUME 579774.879 3723397.353 -35.99

```
   LOCATION L0004407     VOLUME   579774.088 3723400.924 -35.99
   LOCATION L0004408     VOLUME   579773.297 3723404.495 -36.00
   LOCATION L0004409     VOLUME   579772.506 3723408.066 -36.00
   LOCATION L0004410     VOLUME   579771.715 3723411.637 -36.00
   LOCATION L0004411     VOLUME   579770.924 3723415.208 -36.01
   LOCATION L0004412     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0004413     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0004414     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0004415     VOLUME   579768.026 3723429.543 -36.02
   LOCATION L0004416     VOLUME   579767.439 3723433.153 -36.02
   LOCATION L0004417     VOLUME   579766.851 3723436.763 -36.02
   LOCATION L0004418     VOLUME   579766.264 3723440.374 -36.01
   LOCATION L0004419     VOLUME   579765.676 3723443.984 -36.01
   LOCATION L0004420     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0004421     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0004422     VOLUME   579763.914 3723454.814 -36.01
   LOCATION L0004423     VOLUME   579763.327 3723458.424 -36.01
   LOCATION L0004424     VOLUME   579762.739 3723462.034 -36.00
   LOCATION L0004425     VOLUME   579762.152 3723465.644 -36.00
   LOCATION L0004426     VOLUME   579761.564 3723469.254 -36.00
   LOCATION L0004427     VOLUME   579760.977 3723472.865 -36.00
   LOCATION L0004428     VOLUME   579760.389 3723476.475 -36.00
   LOCATION L0004429     VOLUME   579759.802 3723480.085 -36.00
   LOCATION L0004430     VOLUME   579759.214 3723483.695 -36.00
   LOCATION L0004431     VOLUME   579758.627 3723487.305 -35.99
   LOCATION L0004432     VOLUME   579758.039 3723490.915 -35.99
   LOCATION L0004433     VOLUME   579757.452 3723494.525 -35.99
   LOCATION L0004434     VOLUME   579756.864 3723498.135 -35.99
   LOCATION L0004435     VOLUME   579756.277 3723501.745 -35.99
   LOCATION L0004436     VOLUME   579755.689 3723505.356 -35.99
   LOCATION L0004437     VOLUME   579755.102 3723508.966 -35.99
   LOCATION L0004438     VOLUME   579754.514 3723512.576 -35.98
   LOCATION L0004439     VOLUME   579753.927 3723516.186 -35.98
   LOCATION L0004440     VOLUME   579753.339 3723519.796 -35.98
   LOCATION L0004441     VOLUME   579752.752 3723523.406 -35.98
   LOCATION L0004442     VOLUME   579752.164 3723527.016 -35.98
   LOCATION L0004443     VOLUME   579751.577 3723530.626 -35.98
   LOCATION L0004444     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0004445     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0004446     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0004447     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0004448     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0004449     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0004450     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0004451     VOLUME   579746.877 3723559.507 -35.96
   LOCATION L0004452     VOLUME   579746.290 3723563.117 -35.96
   LOCATION L0004453     VOLUME   579745.702 3723566.727 -35.96
   LOCATION L0004454     VOLUME   579745.115 3723570.338 -35.96
   LOCATION L0004455     VOLUME   579744.527 3723573.948 -35.96
   LOCATION L0004456     VOLUME   579743.940 3723577.558 -35.96
   LOCATION L0004457     VOLUME   579743.352 3723581.168 -35.96
   LOCATION L0004458     VOLUME   579742.765 3723584.778 -35.95
   LOCATION L0004459     VOLUME   579742.177 3723588.388 -35.95
   LOCATION L0004460     VOLUME   579741.590 3723591.998 -35.95
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 6.91E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0004461     VOLUME   580084.307 3722820.832 -38.77
   LOCATION L0004462     VOLUME   580083.314 3722824.352 -38.76
   LOCATION L0004463     VOLUME   580082.322 3722827.873 -38.74
   LOCATION L0004464     VOLUME   580081.329 3722831.393 -38.73
   LOCATION L0004465     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0004466     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0004467     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0004468     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0004469     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0004470     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0004471     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0004472     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0004473     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0004474     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0004475     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0004476     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0004477     VOLUME   580063.950 3722872.317 -38.69
   LOCATION L0004478     VOLUME   580067.118 3722874.145 -38.67
   LOCATION L0004479     VOLUME   580070.285 3722875.974 -38.65
   LOCATION L0004480     VOLUME   580073.453 3722877.803 -38.63
   LOCATION L0004481     VOLUME   580076.621 3722879.632 -38.61
   LOCATION L0004482     VOLUME   580079.788 3722881.461 -38.59
   LOCATION L0004483     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0004484     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0004485     VOLUME   580089.291 3722886.947 -38.52
   LOCATION L0004486     VOLUME   580092.459 3722888.776 -38.50
   LOCATION L0004487     VOLUME   580095.626 3722890.604 -38.48
   LOCATION L0004488     VOLUME   580098.794 3722892.433 -38.46
   LOCATION L0004489     VOLUME   580101.961 3722894.262 -38.44
   LOCATION L0004490     VOLUME   580105.129 3722896.091 -38.42
   LOCATION L0004491     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0004492     VOLUME   580111.464 3722899.748 -38.38
   LOCATION L0004493     VOLUME   580114.632 3722901.577 -38.36
   LOCATION L0004494     VOLUME   580117.799 3722903.406 -38.34
   LOCATION L0004495     VOLUME   580120.967 3722905.234 -38.31
   LOCATION L0004496     VOLUME   580124.135 3722907.063 -38.29
   LOCATION L0004497     VOLUME   580127.302 3722908.892 -38.27
   LOCATION L0004498     VOLUME   580130.470 3722910.721 -38.25
   LOCATION L0004499     VOLUME   580133.637 3722912.549 -38.23
   LOCATION L0004500     VOLUME   580136.805 3722914.378 -38.21
   LOCATION L0004501     VOLUME   580139.973 3722916.207 -38.19
   LOCATION L0004502     VOLUME   580143.140 3722918.036 -38.17
   LOCATION L0004503     VOLUME   580146.308 3722919.864 -38.15
   LOCATION L0004504     VOLUME   580149.475 3722921.693 -38.13
   LOCATION L0004505     VOLUME   580151.219 3722924.671 -38.12
```

LOCATION L0004506 VOLUME 580152.339 3722928.153 -38.13
LOCATION L0004507 VOLUME 580153.458 3722931.635 -38.13
LOCATION L0004508 VOLUME 580154.577 3722935.118 -38.14
LOCATION L0004509 VOLUME 580155.629 3722938.593 -38.14
LOCATION L0004510 VOLUME 580153.817 3722941.770 -38.13
LOCATION L0004511 VOLUME 580152.004 3722944.947 -38.13
LOCATION L0004512 VOLUME 580150.192 3722948.124 -38.12
LOCATION L0004513 VOLUME 580148.379 3722951.300 -38.12
LOCATION L0004514 VOLUME 580146.567 3722954.477 -38.11
LOCATION L0004515 VOLUME 580144.754 3722957.654 -38.11
LOCATION L0004516 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0004517 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0004518 VOLUME 580139.317 3722967.185 -38.09
LOCATION L0004519 VOLUME 580137.505 3722970.362 -38.08
LOCATION L0004520 VOLUME 580135.692 3722973.539 -38.08
LOCATION L0004521 VOLUME 580133.880 3722976.716 -38.07
LOCATION L0004522 VOLUME 580132.067 3722979.893 -38.07
LOCATION L0004523 VOLUME 580130.255 3722983.070 -38.06
LOCATION L0004524 VOLUME 580128.442 3722986.247 -38.06
LOCATION L0004525 VOLUME 580126.630 3722989.424 -38.05
LOCATION L0004526 VOLUME 580124.817 3722992.601 -38.05
LOCATION L0004527 VOLUME 580123.005 3722995.778 -38.04
LOCATION L0004528 VOLUME 580121.192 3722998.955 -38.03
LOCATION L0004529 VOLUME 580119.380 3723002.132 -38.03
LOCATION L0004530 VOLUME 580117.567 3723005.309 -38.02
LOCATION L0004531 VOLUME 580115.755 3723008.486 -38.02
LOCATION L0004532 VOLUME 580113.943 3723011.663 -38.01
LOCATION L0004533 VOLUME 580112.130 3723014.839 -38.01
LOCATION L0004534 VOLUME 580110.318 3723018.016 -38.00
LOCATION L0004535 VOLUME 580108.505 3723021.193 -38.00
LOCATION L0004536 VOLUME 580106.693 3723024.370 -37.99
LOCATION L0004537 VOLUME 580104.880 3723027.547 -37.98
LOCATION L0004538 VOLUME 580103.068 3723030.724 -37.98
LOCATION L0004539 VOLUME 580101.255 3723033.901 -37.97
LOCATION L0004540 VOLUME 580099.443 3723037.078 -37.97
LOCATION L0004541 VOLUME 580097.630 3723040.255 -37.96
LOCATION L0004542 VOLUME 580095.818 3723043.432 -37.96
LOCATION L0004543 VOLUME 580094.005 3723046.609 -37.95
LOCATION L0004544 VOLUME 580092.193 3723049.786 -37.95
LOCATION L0004545 VOLUME 580090.381 3723052.963 -37.94
LOCATION L0004546 VOLUME 580088.568 3723056.140 -37.93
LOCATION L0004547 VOLUME 580086.756 3723059.317 -37.93
LOCATION L0004548 VOLUME 580084.943 3723062.494 -37.92
LOCATION L0004549 VOLUME 580083.131 3723065.671 -37.92
LOCATION L0004550 VOLUME 580081.318 3723068.848 -37.91
LOCATION L0004551 VOLUME 580079.506 3723072.025 -37.91
LOCATION L0004552 VOLUME 580077.693 3723075.202 -37.90
LOCATION L0004553 VOLUME 580075.881 3723078.378 -37.90
LOCATION L0004554 VOLUME 580074.068 3723081.555 -37.89
LOCATION L0004555 VOLUME 580072.256 3723084.732 -37.88
LOCATION L0004556 VOLUME 580070.443 3723087.909 -37.88
LOCATION L0004557 VOLUME 580068.631 3723091.086 -37.87
LOCATION L0004558 VOLUME 580066.818 3723094.263 -37.87
LOCATION L0004559 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0004560 VOLUME 580063.194 3723100.617 -37.86
LOCATION L0004561 VOLUME 580061.381 3723103.794 -37.85
LOCATION L0004562 VOLUME 580059.569 3723106.971 -37.85
LOCATION L0004563 VOLUME 580057.756 3723110.148 -37.84
LOCATION L0004564 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0004565 VOLUME 580054.131 3723116.502 -37.83

LOCATION L0004566 VOLUME 580052.319 3723119.679 -37.82
LOCATION L0004567 VOLUME 580050.506 3723122.856 -37.82
LOCATION L0004568 VOLUME 580048.694 3723126.033 -37.81
LOCATION L0004569 VOLUME 580046.881 3723129.210 -37.81
LOCATION L0004570 VOLUME 580045.069 3723132.387 -37.80
LOCATION L0004571 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0004572 VOLUME 580041.444 3723138.741 -37.79
LOCATION L0004573 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0004574 VOLUME 580037.819 3723145.094 -37.78
LOCATION L0004575 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0004576 VOLUME 580034.194 3723151.448 -37.77
LOCATION L0004577 VOLUME 580032.382 3723154.625 -37.76
LOCATION L0004578 VOLUME 580030.569 3723157.802 -37.76
LOCATION L0004579 VOLUME 580028.757 3723160.979 -37.75
LOCATION L0004580 VOLUME 580026.944 3723164.156 -37.74
LOCATION L0004581 VOLUME 580025.132 3723167.333 -37.74
LOCATION L0004582 VOLUME 580023.319 3723170.510 -37.73
LOCATION L0004583 VOLUME 580021.489 3723173.677 -37.72
LOCATION L0004584 VOLUME 580019.622 3723176.822 -37.70
LOCATION L0004585 VOLUME 580017.755 3723179.967 -37.67
LOCATION L0004586 VOLUME 580015.888 3723183.112 -37.65
LOCATION L0004587 VOLUME 580014.021 3723186.258 -37.63
LOCATION L0004588 VOLUME 580012.154 3723189.403 -37.60
LOCATION L0004589 VOLUME 580010.287 3723192.548 -37.58
LOCATION L0004590 VOLUME 580008.420 3723195.693 -37.55
LOCATION L0004591 VOLUME 580006.553 3723198.838 -37.53
LOCATION L0004592 VOLUME 580004.686 3723201.984 -37.51
LOCATION L0004593 VOLUME 580002.819 3723205.129 -37.48
LOCATION L0004594 VOLUME 580000.952 3723208.274 -37.46
LOCATION L0004595 VOLUME 579999.085 3723211.419 -37.43
LOCATION L0004596 VOLUME 579997.218 3723214.565 -37.41
LOCATION L0004597 VOLUME 579995.351 3723217.710 -37.39
LOCATION L0004598 VOLUME 579993.484 3723220.855 -37.36
LOCATION L0004599 VOLUME 579991.617 3723224.000 -37.34
LOCATION L0004600 VOLUME 579989.750 3723227.145 -37.31
LOCATION L0004601 VOLUME 579987.883 3723230.291 -37.29
LOCATION L0004602 VOLUME 579986.016 3723233.436 -37.26
LOCATION L0004603 VOLUME 579984.149 3723236.581 -37.24
LOCATION L0004604 VOLUME 579982.282 3723239.726 -37.22
LOCATION L0004605 VOLUME 579980.415 3723242.871 -37.19
LOCATION L0004606 VOLUME 579978.548 3723246.017 -37.17
LOCATION L0004607 VOLUME 579976.681 3723249.162 -37.14
LOCATION L0004608 VOLUME 579974.814 3723252.307 -37.12
LOCATION L0004609 VOLUME 579972.947 3723255.452 -37.10
LOCATION L0004610 VOLUME 579971.080 3723258.598 -37.07
LOCATION L0004611 VOLUME 579969.213 3723261.743 -37.05
LOCATION L0004612 VOLUME 579967.346 3723264.888 -37.02
LOCATION L0004613 VOLUME 579965.479 3723268.033 -37.00
LOCATION L0004614 VOLUME 579963.612 3723271.178 -36.98
LOCATION L0004615 VOLUME 579961.745 3723274.324 -36.95
LOCATION L0004616 VOLUME 579959.879 3723277.469 -36.93
LOCATION L0004617 VOLUME 579958.012 3723280.614 -36.90
LOCATION L0004618 VOLUME 579956.145 3723283.759 -36.88
LOCATION L0004619 VOLUME 579954.278 3723286.904 -36.86
LOCATION L0004620 VOLUME 579952.411 3723290.050 -36.83
LOCATION L0004621 VOLUME 579950.544 3723293.195 -36.81
LOCATION L0004622 VOLUME 579948.677 3723296.340 -36.78
LOCATION L0004623 VOLUME 579946.810 3723299.485 -36.76
LOCATION L0004624 VOLUME 579944.943 3723302.631 -36.74
LOCATION L0004625 VOLUME 579943.076 3723305.776 -36.71

LOCATION L0004626 VOLUME 579941.209 3723308.921 -36.69
LOCATION L0004627 VOLUME 579939.342 3723312.066 -36.66
LOCATION L0004628 VOLUME 579937.475 3723315.211 -36.64
LOCATION L0004629 VOLUME 579935.608 3723318.357 -36.62
LOCATION L0004630 VOLUME 579933.741 3723321.502 -36.59
LOCATION L0004631 VOLUME 579931.874 3723324.647 -36.57
LOCATION L0004632 VOLUME 579930.007 3723327.792 -36.54
LOCATION L0004633 VOLUME 579928.140 3723330.937 -36.52
LOCATION L0004634 VOLUME 579926.273 3723334.083 -36.49
LOCATION L0004635 VOLUME 579924.406 3723337.228 -36.47
LOCATION L0004636 VOLUME 579922.539 3723340.373 -36.45
LOCATION L0004637 VOLUME 579920.672 3723343.518 -36.42
LOCATION L0004638 VOLUME 579918.805 3723346.664 -36.40
LOCATION L0004639 VOLUME 579916.938 3723349.809 -36.37
LOCATION L0004640 VOLUME 579915.071 3723352.954 -36.35
LOCATION L0004641 VOLUME 579913.204 3723356.099 -36.33
LOCATION L0004642 VOLUME 579911.337 3723359.244 -36.30
LOCATION L0004643 VOLUME 579909.470 3723362.390 -36.28
LOCATION L0004644 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0004645 VOLUME 579905.871 3723368.758 -36.26
LOCATION L0004646 VOLUME 579904.085 3723371.950 -36.26
LOCATION L0004647 VOLUME 579902.299 3723375.142 -36.25
LOCATION L0004648 VOLUME 579900.513 3723378.334 -36.25
LOCATION L0004649 VOLUME 579898.728 3723381.526 -36.25
LOCATION L0004650 VOLUME 579896.942 3723384.718 -36.24
LOCATION L0004651 VOLUME 579895.156 3723387.910 -36.24
LOCATION L0004652 VOLUME 579893.370 3723391.102 -36.23
LOCATION L0004653 VOLUME 579891.584 3723394.294 -36.23
LOCATION L0004654 VOLUME 579889.799 3723397.486 -36.23
LOCATION L0004655 VOLUME 579888.013 3723400.678 -36.22
LOCATION L0004656 VOLUME 579886.227 3723403.870 -36.22
LOCATION L0004657 VOLUME 579884.441 3723407.062 -36.21
LOCATION L0004658 VOLUME 579882.655 3723410.254 -36.21
LOCATION L0004659 VOLUME 579880.870 3723413.446 -36.20
LOCATION L0004660 VOLUME 579879.084 3723416.638 -36.20
LOCATION L0004661 VOLUME 579877.298 3723419.830 -36.20
LOCATION L0004662 VOLUME 579875.512 3723423.022 -36.19
LOCATION L0004663 VOLUME 579873.727 3723426.214 -36.19
LOCATION L0004664 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0004665 VOLUME 579870.155 3723432.598 -36.18
LOCATION L0004666 VOLUME 579868.369 3723435.790 -36.18
LOCATION L0004667 VOLUME 579866.583 3723438.982 -36.17
LOCATION L0004668 VOLUME 579864.798 3723442.174 -36.17
LOCATION L0004669 VOLUME 579863.012 3723445.366 -36.16
LOCATION L0004670 VOLUME 579861.226 3723448.558 -36.16
LOCATION L0004671 VOLUME 579859.440 3723451.750 -36.16
LOCATION L0004672 VOLUME 579857.655 3723454.942 -36.15
LOCATION L0004673 VOLUME 579855.869 3723458.134 -36.15
LOCATION L0004674 VOLUME 579854.083 3723461.327 -36.14
LOCATION L0004675 VOLUME 579852.297 3723464.519 -36.14
LOCATION L0004676 VOLUME 579850.511 3723467.711 -36.13
LOCATION L0004677 VOLUME 579848.726 3723470.903 -36.13
LOCATION L0004678 VOLUME 579846.940 3723474.095 -36.13
LOCATION L0004679 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0004680 VOLUME 579843.368 3723480.479 -36.12
LOCATION L0004681 VOLUME 579841.582 3723483.671 -36.11
LOCATION L0004682 VOLUME 579839.797 3723486.863 -36.11
LOCATION L0004683 VOLUME 579838.011 3723490.055 -36.11
LOCATION L0004684 VOLUME 579836.225 3723493.247 -36.10
LOCATION L0004685 VOLUME 579834.439 3723496.439 -36.10

```
   LOCATION L0004686     VOLUME   579832.654 3723499.631 -36.09
   LOCATION L0004687     VOLUME   579830.868 3723502.823 -36.09
   LOCATION L0004688     VOLUME   579829.082 3723506.015 -36.08
   LOCATION L0004689     VOLUME   579827.296 3723509.207 -36.08
   LOCATION L0004690     VOLUME   579825.510 3723512.399 -36.08
   LOCATION L0004691     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0004692     VOLUME   579821.939 3723518.783 -36.07
   LOCATION L0004693     VOLUME   579820.153 3723521.975 -36.06
   LOCATION L0004694     VOLUME   579818.367 3723525.167 -36.06
   LOCATION L0004695     VOLUME   579816.581 3723528.359 -36.06
   LOCATION L0004696     VOLUME   579814.796 3723531.551 -36.05
   LOCATION L0004697     VOLUME   579813.010 3723534.743 -36.05
   LOCATION L0004698     VOLUME   579811.224 3723537.935 -36.04
   LOCATION L0004699     VOLUME   579809.438 3723541.127 -36.04
   LOCATION L0004700     VOLUME   579807.653 3723544.319 -36.03
   LOCATION L0004701     VOLUME   579805.867 3723547.511 -36.03
   LOCATION L0004702     VOLUME   579804.081 3723550.703 -36.03
   LOCATION L0004703     VOLUME   579802.295 3723553.895 -36.02
   LOCATION L0004704     VOLUME   579800.509 3723557.087 -36.02
   LOCATION L0004705     VOLUME   579798.724 3723560.279 -36.01
   LOCATION L0004706     VOLUME   579796.938 3723563.471 -36.01
   LOCATION L0004707     VOLUME   579795.152 3723566.663 -36.01
   LOCATION L0004708     VOLUME   579793.366 3723569.855 -36.00
   LOCATION L0004709     VOLUME   579791.580 3723573.047 -36.00
   LOCATION L0004710     VOLUME   579789.795 3723576.239 -35.99
   LOCATION L0004711     VOLUME   579788.009 3723579.431 -35.99
   LOCATION L0004712     VOLUME   579786.223 3723582.623 -35.98
   LOCATION L0004713     VOLUME   579784.437 3723585.815 -35.98
   LOCATION L0004714     VOLUME   579782.652 3723589.007 -35.98
   LOCATION L0004715     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 2.45E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0004716     VOLUME   580071.719 3722811.433 -38.82
   LOCATION L0004717     VOLUME   580059.528 3722811.353 -38.77
   LOCATION L0004718     VOLUME   580047.336 3722811.272 -38.73
   LOCATION L0004719     VOLUME   580035.144 3722811.191 -38.69
   LOCATION L0004720     VOLUME   580022.952 3722811.110 -38.64
   LOCATION L0004721     VOLUME   580010.761 3722811.030 -38.60
   LOCATION L0004722     VOLUME   579998.569 3722810.949 -38.55
   LOCATION L0004723     VOLUME   579986.377 3722810.868 -38.51
   LOCATION L0004724     VOLUME   579974.185 3722810.787 -38.47
   LOCATION L0004725     VOLUME   579961.994 3722810.707 -38.42
```

```
   LOCATION L0004726     VOLUME   579949.802 3722810.626 -38.38
   LOCATION L0004727     VOLUME   579937.610 3722810.545 -38.34
   LOCATION L0004728     VOLUME   579925.422 3722810.683 -38.26
   LOCATION L0004729     VOLUME   579913.238 3722811.125 -38.14
   LOCATION L0004730     VOLUME   579901.054 3722811.567 -38.01
   LOCATION L0004731     VOLUME   579888.870 3722812.009 -37.89
   LOCATION L0004732     VOLUME   579876.686 3722812.451 -37.77
   LOCATION L0004733     VOLUME   579864.502 3722812.893 -37.64
   LOCATION L0004734     VOLUME   579852.318 3722813.335 -37.52
   LOCATION L0004735     VOLUME   579840.134 3722813.777 -37.40
   LOCATION L0004736     VOLUME   579827.950 3722814.219 -37.27
   LOCATION L0004737     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0004738     VOLUME   579803.582 3722815.103 -37.03
   LOCATION L0004739     VOLUME   579791.398 3722815.545 -36.90
   LOCATION L0004740     VOLUME   579779.214 3722815.987 -36.78
   LOCATION L0004741     VOLUME   579767.030 3722816.429 -36.66
   LOCATION L0004742     VOLUME   579754.846 3722816.871 -36.54
   LOCATION L0004743     VOLUME   579742.662 3722817.313 -36.41
   LOCATION L0004744     VOLUME   579730.478 3722817.755 -36.29
   LOCATION L0004745     VOLUME   579718.290 3722818.032 -36.21
   LOCATION L0004746     VOLUME   579706.099 3722818.153 -36.17
   LOCATION L0004747     VOLUME   579693.907 3722818.273 -36.13
   LOCATION L0004748     VOLUME   579681.716 3722818.394 -36.09
   LOCATION L0004749     VOLUME   579669.525 3722818.515 -36.05
   LOCATION L0004750     VOLUME   579657.333 3722818.632 -36.01
   LOCATION L0004751     VOLUME   579645.141 3722818.604 -36.02
   LOCATION L0004752     VOLUME   579632.949 3722818.575 -36.04
   LOCATION L0004753     VOLUME   579620.757 3722818.546 -36.05
   LOCATION L0004754     VOLUME   579608.565 3722818.517 -36.07
   LOCATION L0004755     VOLUME   579596.373 3722818.489 -36.08
   LOCATION L0004756     VOLUME   579584.181 3722818.460 -36.10
   LOCATION L0004757     VOLUME   579571.989 3722818.431 -36.11
   LOCATION L0004758     VOLUME   579559.797 3722818.402 -36.13
   LOCATION L0004759     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0004760     VOLUME   579535.413 3722818.345 -36.16
   LOCATION L0004761     VOLUME   579523.222 3722818.316 -36.17
   LOCATION L0004762     VOLUME   579511.030 3722818.287 -36.19
   LOCATION L0004763     VOLUME   579498.838 3722818.259 -36.20
   LOCATION L0004764     VOLUME   579486.646 3722818.230 -36.22
   LOCATION L0004765     VOLUME   579474.454 3722818.201 -36.23
   LOCATION L0004766     VOLUME   579462.262 3722818.172 -36.25
   LOCATION L0004767     VOLUME   579450.070 3722818.144 -36.26
   LOCATION L0004768     VOLUME   579437.887 3722817.853 -36.27
   LOCATION L0004769     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0004770     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0004771     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0004772     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0004773     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0004774     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0004775     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0004776     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0004777     VOLUME   579328.379 3722811.085 -36.24
   LOCATION L0004778     VOLUME   579316.188 3722810.942 -36.20
   LOCATION L0004779     VOLUME   579303.997 3722810.798 -36.15
   LOCATION L0004780     VOLUME   579291.805 3722810.655 -36.11
   LOCATION L0004781     VOLUME   579279.614 3722810.511 -36.07
   LOCATION L0004782     VOLUME   579267.423 3722810.368 -36.03
   LOCATION L0004783     VOLUME   579255.232 3722810.225 -35.98
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 5.74E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ------------------------------------------------------------------
   LOCATION L0004784     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0004785     VOLUME   580104.836 3722811.157 -38.68
   LOCATION L0004786     VOLUME   580117.026 3722810.998 -38.64
   LOCATION L0004787     VOLUME   580129.217 3722810.838 -38.61
   LOCATION L0004788     VOLUME   580141.408 3722810.679 -38.57
   LOCATION L0004789     VOLUME   580153.599 3722810.520 -38.54
   LOCATION L0004790     VOLUME   580165.790 3722810.361 -38.50
   LOCATION L0004791     VOLUME   580177.981 3722810.202 -38.46
   LOCATION L0004792     VOLUME   580190.172 3722810.043 -38.43
   LOCATION L0004793     VOLUME   580202.363 3722809.884 -38.39
   LOCATION L0004794     VOLUME   580214.554 3722809.725 -38.36
   LOCATION L0004795     VOLUME   580226.745 3722809.687 -38.32
   LOCATION L0004796     VOLUME   580238.937 3722809.784 -38.28
   LOCATION L0004797     VOLUME   580251.129 3722809.881 -38.24
   LOCATION L0004798     VOLUME   580263.320 3722809.978 -38.20
   LOCATION L0004799     VOLUME   580275.512 3722810.075 -38.16
   LOCATION L0004800     VOLUME   580287.704 3722810.172 -38.12
   LOCATION L0004801     VOLUME   580299.895 3722810.269 -38.08
   LOCATION L0004802     VOLUME   580312.087 3722810.366 -38.04
   LOCATION L0004803     VOLUME   580324.278 3722810.463 -38.00
   LOCATION L0004804     VOLUME   580336.470 3722810.560 -37.96
   LOCATION L0004805     VOLUME   580348.662 3722810.657 -37.92
   LOCATION L0004806     VOLUME   580360.853 3722810.754 -37.88
   LOCATION L0004807     VOLUME   580373.045 3722810.851 -37.84
   LOCATION L0004808     VOLUME   580385.236 3722810.947 -37.80
   LOCATION L0004809     VOLUME   580397.428 3722811.044 -37.76
   LOCATION L0004810     VOLUME   580409.620 3722811.141 -37.72
   LOCATION L0004811     VOLUME   580421.811 3722811.238 -37.68
   LOCATION L0004812     VOLUME   580434.003 3722811.335 -37.64
   LOCATION L0004813     VOLUME   580446.195 3722811.432 -37.60
   LOCATION L0004814     VOLUME   580458.386 3722811.529 -37.56
   LOCATION L0004815     VOLUME   580470.578 3722811.626 -37.52
   LOCATION L0004816     VOLUME   580482.769 3722811.723 -37.48
   LOCATION L0004817     VOLUME   580494.961 3722811.820 -37.44
   LOCATION L0004818     VOLUME   580507.153 3722811.917 -37.40
   LOCATION L0004819     VOLUME   580519.344 3722812.014 -37.36
   LOCATION L0004820     VOLUME   580531.536 3722812.111 -37.32
   LOCATION L0004821     VOLUME   580543.727 3722812.208 -37.28
   LOCATION L0004822     VOLUME   580555.919 3722812.305 -37.24
   LOCATION L0004823     VOLUME   580568.111 3722812.402 -37.20
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING       POINT      579913.113  3723302.270      -36.270
** DESCRSRC Construction Truck Idling
   LOCATION OFFRDEQ      POINT      579932.850  3723278.650      -36.320
** DESCRSRC Offroad Construction Equipment
** Source Parameters **
```

```
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0004227     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004228     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004229     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004230     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004231     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004232     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004233     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004234     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004235     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004236     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004237     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004238     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004239     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004240     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004241     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004242     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004243     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004244     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004245     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004246     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004247     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004248     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004249     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004250     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004251     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004252     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004253     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004254     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004255     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004256     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004257     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004258     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004259     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004260     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004261     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004262     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004263     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004264     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004265     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004266     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004267     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004268     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004269     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004270     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004271     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004272     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004273     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004274     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004275     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004276     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004277     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004278     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004279     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004280     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004281     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004282     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004283     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004284     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004285     0.00000002714      0.00      1.70      0.85
```

```
SRCPARAM L0004286     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004287     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004288     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004289     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004290     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004291     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004292     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004293     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004294     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004295     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004296     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004297     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004298     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004299     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004300     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004301     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004302     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004303     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004304     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004305     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004306     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004307     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004308     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004309     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004310     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004311     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004312     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004313     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004314     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004315     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004316     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004317     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004318     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004319     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004320     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004321     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004322     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004323     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004324     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004325     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004326     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004327     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004328     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004329     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004330     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004331     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004332     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004333     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004334     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004335     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004336     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004337     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004338     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004339     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004340     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004341     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004342     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004343     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004344     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004345     0.00000002714      0.00      1.70      0.85
```

```
SRCPARAM L0004346     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004347     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004348     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004349     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004350     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004351     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004352     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004353     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004354     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004355     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004356     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004357     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004358     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004359     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004360     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004361     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004362     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004363     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004364     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004365     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004366     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004367     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004368     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004369     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004370     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004371     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004372     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004373     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004374     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004375     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004376     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004377     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004378     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004379     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004380     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004381     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004382     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004383     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004384     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004385     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004386     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004387     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004388     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004389     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004390     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004391     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004392     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004393     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004394     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004395     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004396     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004397     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004398     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004399     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004400     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004401     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004402     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004403     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004404     0.00000002714      0.00      1.70      0.85
SRCPARAM L0004405     0.00000002714      0.00      1.70      0.85
```

```
   SRCPARAM L0004406     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004407     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004408     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004409     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004410     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004411     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004412     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004413     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004414     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004415     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004416     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004417     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004418     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004419     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004420     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004421     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004422     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004423     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004424     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004425     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004426     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004427     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004428     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004429     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004430     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004431     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004432     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004433     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004434     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004435     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004436     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004437     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004438     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004439     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004440     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004441     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004442     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004443     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004444     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004445     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004446     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004447     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004448     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004449     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004450     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004451     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004452     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004453     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004454     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004455     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004456     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004457     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004458     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004459     0.00000002714      0.00      1.70      0.85
   SRCPARAM L0004460     0.00000002714      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0004461     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004462     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004463     0.0000000271      0.00      1.70      0.85
```

```
SRCPARAM L0004464     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004465     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004466     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004467     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004468     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004469     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004470     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004471     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004472     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004473     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004474     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004475     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004476     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004477     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004478     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004479     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004480     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004481     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004482     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004483     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004484     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004485     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004486     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004487     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004488     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004489     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004490     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004491     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004492     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004493     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004494     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004495     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004496     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004497     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004498     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004499     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004500     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004501     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004502     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004503     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004504     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004505     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004506     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004507     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004508     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004509     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004510     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004511     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004512     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004513     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004514     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004515     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004516     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004517     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004518     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004519     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004520     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004521     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004522     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004523     0.0000000271      0.00      1.70      0.85
```

```
SRCPARAM L0004524     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004525     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004526     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004527     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004528     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004529     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004530     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004531     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004532     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004533     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004534     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004535     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004536     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004537     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004538     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004539     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004540     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004541     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004542     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004543     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004544     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004545     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004546     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004547     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004548     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004549     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004550     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004551     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004552     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004553     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004554     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004555     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004556     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004557     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004558     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004559     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004560     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004561     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004562     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004563     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004564     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004565     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004566     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004567     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004568     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004569     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004570     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004571     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004572     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004573     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004574     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004575     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004576     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004577     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004578     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004579     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004580     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004581     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004582     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004583     0.0000000271      0.00      1.70      0.85
```

```
SRCPARAM L0004584     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004585     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004586     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004587     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004588     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004589     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004590     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004591     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004592     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004593     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004594     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004595     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004596     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004597     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004598     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004599     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004600     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004601     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004602     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004603     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004604     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004605     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004606     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004607     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004608     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004609     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004610     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004611     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004612     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004613     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004614     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004615     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004616     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004617     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004618     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004619     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004620     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004621     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004622     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004623     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004624     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004625     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004626     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004627     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004628     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004629     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004630     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004631     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004632     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004633     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004634     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004635     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004636     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004637     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004638     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004639     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004640     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004641     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004642     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004643     0.0000000271      0.00      1.70      0.85
```

```
SRCPARAM L0004644     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004645     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004646     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004647     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004648     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004649     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004650     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004651     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004652     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004653     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004654     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004655     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004656     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004657     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004658     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004659     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004660     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004661     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004662     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004663     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004664     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004665     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004666     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004667     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004668     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004669     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004670     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004671     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004672     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004673     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004674     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004675     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004676     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004677     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004678     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004679     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004680     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004681     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004682     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004683     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004684     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004685     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004686     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004687     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004688     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004689     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004690     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004691     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004692     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004693     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004694     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004695     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004696     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004697     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004698     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004699     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004700     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004701     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004702     0.0000000271      0.00      1.70      0.85
SRCPARAM L0004703     0.0000000271      0.00      1.70      0.85
```

```
   SRCPARAM L0004704     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004705     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004706     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004707     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004708     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004709     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004710     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004711     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004712     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004713     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004714     0.0000000271      0.00      1.70      0.85
   SRCPARAM L0004715     0.0000000271      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0004716     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004717     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004718     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004719     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004720     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004721     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004722     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004723     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004724     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004725     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004726     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004727     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004728     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004729     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004730     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004731     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004732     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004733     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004734     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004735     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004736     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004737     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004738     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004739     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004740     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004741     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004742     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004743     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004744     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004745     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004746     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004747     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004748     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004749     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004750     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004751     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004752     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004753     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004754     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004755     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004756     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004757     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004758     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004759     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004760     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004761     0.00000003603      0.00      5.67      0.85
```

```
   SRCPARAM L0004762     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004763     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004764     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004765     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004766     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004767     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004768     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004769     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004770     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004771     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004772     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004773     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004774     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004775     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004776     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004777     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004778     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004779     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004780     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004781     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004782     0.00000003603      0.00      5.67      0.85
   SRCPARAM L0004783     0.00000003603      0.00      5.67      0.85
** --------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0004784     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004785     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004786     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004787     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004788     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004789     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004790     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004791     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004792     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004793     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004794     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004795     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004796     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004797     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004798     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004799     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004800     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004801     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004802     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004803     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004804     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004805     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004806     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004807     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004808     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004809     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004810     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004811     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004812     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004813     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004814     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004815     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004816     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004817     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004818     0.0000001435       0.00      5.67      0.85
   SRCPARAM L0004819     0.0000001435       0.00      5.67      0.85
```

```
   SRCPARAM L0004820     0.0000001435      0.00      5.67      0.85
   SRCPARAM L0004821     0.0000001435      0.00      5.67      0.85
   SRCPARAM L0004822     0.0000001435      0.00      5.67      0.85
   SRCPARAM L0004823     0.0000001435      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING        2.15E-06     3.840   366.000        50       0.1
   SRCPARAM OFFRDEQ         0.0584     3.962   366.000        50       0.1
   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Scenario 2"
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT OFFRDEQ      HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT OFFRDEQ      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT IDLING       HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT IDLING       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004784     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004784     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004784     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004784     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004785     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004785     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004785     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004785     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004786     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004786     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004786     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004786     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004787     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004787     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004787     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004787     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004788     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004788     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004788     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004788     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004789     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004789     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004789     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004789     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004790     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004790     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004790     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004790     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004791     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004791     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004791     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004791     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004792     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004792     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004792     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004792     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004793     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004793     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004793     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004793     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004794     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004794     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004794     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004794     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004795     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004795     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004795     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004795     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004796     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004796     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004796     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004796     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004797     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004797     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004797     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004797     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004798     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004798     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004798     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004798     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004799     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004799     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004799     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004799     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004800     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004800     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004800     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004800     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004801     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004801     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004801     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004801     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004802     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004802     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004802     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004802     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004803     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004803     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004803     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004803     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004804     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004804     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004804     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004804     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004805     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004805     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004805     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004805     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004806     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004806     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004806     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004806     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004807     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004807     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004807     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004807     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004808     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004808     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004808     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004808     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004809     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004809     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004809     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004809     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004810     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004810     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004810     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004810     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004811     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004811     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004811     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004811     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004812     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004812     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004812     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004812     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004813     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004813     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004813     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004813     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004814     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004814     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004814     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004814     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004815     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004815     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004815     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004815     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004816     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004816     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004816     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004816     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004817     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004817     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004817     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004817     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004818     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004818     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004818     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004818     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004819     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004819     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004819     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004819     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004820     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004820     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004820     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004820     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004821     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004821     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004821     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004821     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004822     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004822     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004822     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004822     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004823     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004823     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004823     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004823     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004716     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004716     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004716     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004716     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004717     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004717     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004717     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004717     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004718     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004718     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004718     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004718     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004719     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004719     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004719     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004719     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004720     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004720     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004720     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004720     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004721     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004721     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004721     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004721     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004722     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004722     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004722     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004722     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004723     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004723     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004723     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004723     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004724     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004724     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004724     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004724     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004725     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004725     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004725     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004725     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004726     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004726     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004726     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004726     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004727     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004727     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004727     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004727     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004728     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004728     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004728     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004728     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004729     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004729     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004729     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004729     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004730     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004730     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004730     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004730     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004731     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004731     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004731     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004731     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004732     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004732     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004732     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004732     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004733     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004733     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004733     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004733     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004734     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004734     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004734     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004734     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004735     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004735     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004735     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004735     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004736     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004736     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004736     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004736     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004737     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004737     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004737     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004737     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004738     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004738     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004738     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004738     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004739     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004739     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004739     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004739     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004740     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004740     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004740     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004740     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004741     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004741     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004741     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004741     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004742     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004742     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004742     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004742     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004743     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004743     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004743     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004743     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004744     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004744     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004744     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004744     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004745     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004745     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004745     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004745     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004746     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004746     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004746     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004746     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004747     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004747     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004747     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004747     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004748     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004748     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004748     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004748     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004749     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004749     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004749     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004749     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004750     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004750     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004750     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004750     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004751     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004751     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004751     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004751     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004752     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004752     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004752     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004752     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004753     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004753     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004753     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004753     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004754     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004754     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004754     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004754     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004755     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004755     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004755     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004755     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004756     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004756     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004756     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004756     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004757     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004757     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004757     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004757     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004758     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004758     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004758     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004758     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004759     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004759     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004759     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004759     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004760     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004760     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004760     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004760     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004761     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004761     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004761     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004761     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004762     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004762     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004762     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004762     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004763     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004763     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004763     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004763     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004764     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004764     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004764     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004764     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004765     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004765     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004765     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004765     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004766     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004766     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004766     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004766     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004767     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004767     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004767     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004767     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004768     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004768     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004768     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004768     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004769     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004769     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004769     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004769     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004770     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004770     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004770     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004770     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004771     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004771     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004771     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004771     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004772     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004772     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004772     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004772     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004773     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004773     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004773     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004773     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004774     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004774     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004774     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004774     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004775     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004775     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004775     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004775     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004776     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004776     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004776     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004776     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004777     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004777     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004777     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004777     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004778     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004778     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004778     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004778     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004779     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004779     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004779     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004779     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004780     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004780     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004780     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004780     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004781     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004781     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004781     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004781     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004782     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004782     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004782     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004782     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004783     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004783     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004783     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004783     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004461     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004461     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004461     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004461     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004462     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004462     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004462     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004462     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004463     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004463     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004463     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004463     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004464     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004464     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004464     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004464     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004465     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004465     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004465     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004465     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004466     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004466     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004466     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004466     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004467     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004467     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004467     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004467     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004468     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004468     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004468     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004468     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004469     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004469     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004469     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004469     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004470     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004470     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004470     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004470     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004471     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004471     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004471     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004471     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004472     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004472     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004472     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004472     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004473     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004473     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004473     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004473     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004474     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004474     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004474     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004474     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004475     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004475     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004475     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004475     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004476     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004476     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004476     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004476     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004477     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004477     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004477     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004477     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004478     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004478     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004478     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004478     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004479     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004479     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004479     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004479     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004480     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004480     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004480     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004480     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004481     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004481     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004481     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004481     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004482     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004482     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004482     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004482     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004483     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004483     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004483     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004483     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004484     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004484     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004484     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004484     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004485     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004485     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004485     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004485     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004486     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004486     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004486     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004486     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004487     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004487     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004487     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004487     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004488     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004488     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004488     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004488     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004489     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004489     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004489     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004489     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004490     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004490     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004490     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004490     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004491     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004491     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004491     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004491     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004492     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004492     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004493     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004493     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004494     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004494     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004494     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004494     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004495     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004495     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004495     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004495     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004496     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004496     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004496     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004496     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004497     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004497     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004497     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004497     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004498     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004498     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004498     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004498     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004499     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004499     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004499     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004499     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004500     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004500     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004500     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004500     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004501     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004501     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004501     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004501     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004502     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004502     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004502     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004502     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004503     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004503     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004503     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004503     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004504     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004504     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004504     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004504     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004505     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004505     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004505     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004505     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004506     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004506     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004506     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004506     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004507     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004507     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004507     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004507     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004508     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004508     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004508     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004508     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004509     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004509     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004509     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004509     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004510     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004510     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004510     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004510     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004511     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004511     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004511     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004511     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004512     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004512     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004512     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004512     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004513     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004513     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004513     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004513     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004514     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004514     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004514     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004514     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004515     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004515     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004515     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004515     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004516     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004516     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004516     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004516     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004517     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004517     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004517     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004517     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004518     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004518     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004518     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004518     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004519     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004519     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004519     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004519     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004520     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004520     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004520     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004520     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004521     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004521     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004521     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004521     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004522     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004522     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004522     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004522     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004523     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004523     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004523     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004523     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004524     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004524     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004524     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004524     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004525     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004525     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004525     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004525     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004526     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004526     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004526     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004526     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004527     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004527     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004527     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004527     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004528     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004528     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004528     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004528     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004529     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004529     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004529     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004529     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004530     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004530     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004530     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004530     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004531     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004531     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004531     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004531     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004532     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004532     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004532     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004532     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004533     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004533     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004533     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004533     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004534     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004534     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004534     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004534     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004535     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004535     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004535     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004535     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004536     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004536     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004536     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004536     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004537     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004537     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004537     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004537     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004538     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004538     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004538     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004538     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004539     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004539     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004539     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004539     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004540     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004540     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004540     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004540     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004541     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004541     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004541     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004541     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004542     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004542     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004542     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004542     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004543     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004543     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004543     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004543     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004544     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004544     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004544     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004544     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004545     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004545     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004545     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004545     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004546     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004546     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004546     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004546     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004547     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004547     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004547     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004547     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004548     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004548     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004548     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004548     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004549     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004549     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004549     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004549     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004550     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004550     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004550     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004550     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004551     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004551     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004551     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004551     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004552     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004552     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004552     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004552     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004553     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004553     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004553     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004553     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004554     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004554     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004554     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004554     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004555     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004555     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004555     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004555     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004556     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004556     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004556     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004556     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004557     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004557     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004557     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004557     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004558     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004558     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004558     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004558     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004559     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004559     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004559     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004559     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004560     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004560     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004560     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004560     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004561     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004561     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004561     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004561     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004562     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004562     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004562     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004562     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004563     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004563     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004563     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004563     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004564     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004564     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004564     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004564     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004565     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004565     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004565     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004565     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004566     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004566     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004566     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004566     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004567     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004567     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004567     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004567     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004568     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004568     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004568     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004568     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004569     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004569     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004569     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004569     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004570     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004570     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004570     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004570     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004571     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004571     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004571     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004571     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004572     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004572     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004572     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004572     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004573     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004573     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004573     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004573     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004574     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004574     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004574     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004574     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004575     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004575     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004576     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004576     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004577     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004577     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004578     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004578     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004578     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004578     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004579     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004579     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004579     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004579     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004580     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004580     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004580     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004580     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004581     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004581     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004581     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004581     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004582     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004582     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004582     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004582     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004583     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004583     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004583     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004583     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004584     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004584     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004584     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004584     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004585     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004585     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004585     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004585     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004586     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004586     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004586     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004586     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004587     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004587     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004587     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004587     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004588     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004588     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004588     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004588     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004589     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004589     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004589     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004589     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004590     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004590     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004590     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004590     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004591     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004591     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004591     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004591     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004592     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004592     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004592     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004592     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004593     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004593     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004593     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004593     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004594     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004594     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004594     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004594     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004595     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004595     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004595     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004595     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004596     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004596     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004596     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004596     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004597     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004597     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004597     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004597     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004598     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004598     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004598     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004598     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004599     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004599     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004599     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004599     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004600     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004600     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004600     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004600     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004601     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004601     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004601     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004601     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004602     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004602     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004602     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004602     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004603     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004603     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004603     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004603     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004604     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004604     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004604     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004604     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004605     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004605     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004605     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004605     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004606     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004606     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004606     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004606     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004607     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004607     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004607     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004607     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004608     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004608     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004608     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004608     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004609     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004609     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004609     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004609     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004610     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004610     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004610     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004610     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004611     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004611     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004611     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004611     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004612     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004612     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004612     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004612     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004613     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004613     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004613     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004613     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004614     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004614     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004614     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004614     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004615     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004615     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004615     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004615     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004616     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004616     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004616     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004616     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004617     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004617     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004617     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004617     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004618     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004618     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004618     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004618     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004619     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004619     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004619     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004619     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004620     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004620     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004620     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004620     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004621     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004621     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004621     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004621     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004622     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004622     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004622     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004622     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004623     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004623     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004623     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004623     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004624     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004624     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004624     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004624     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004625     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004625     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004625     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004625     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004626     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004626     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004626     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004626     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004627     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004627     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004627     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004627     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004628     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004628     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004628     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004628     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004629     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004629     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004629     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004629     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004630     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004630     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004630     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004630     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004631     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004631     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004631     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004631     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004632     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004632     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004632     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004632     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004633     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004633     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004633     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004633     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004634     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004634     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004634     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004634     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004635     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004635     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004635     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004635     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004636     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004636     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004636     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004636     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004637     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004637     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004637     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004637     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004638     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004638     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004638     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004638     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004639     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004639     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004639     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004639     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004640     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004640     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004640     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004640     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004641     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004641     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004641     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004641     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004642     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004642     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004642     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004642     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004643     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004643     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004643     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004643     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004644     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004644     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004644     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004644     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004645     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004645     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004645     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004645     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004646     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004646     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004646     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004646     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004647     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004647     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004647     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004647     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004648     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004648     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004648     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004648     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004649     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004649     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004649     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004649     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004650     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004650     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004650     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004650     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004651     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004651     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004651     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004651     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004652     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004652     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004652     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004652     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004653     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004653     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004653     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004653     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004654     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004654     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004654     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004654     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004655     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004655     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004655     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004655     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004656     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004656     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004656     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004656     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004657     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004657     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004657     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004657     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004658     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004658     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004658     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004658     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004659     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004659     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004659     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004659     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004660     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004660     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004660     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004660     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004661     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004661     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004661     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004661     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004662     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004662     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004662     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004662     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004663     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004663     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004663     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004663     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004664     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004664     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004664     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004664     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004665     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004665     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004665     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004665     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004666     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004666     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004666     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004666     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004667     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004667     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004667     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004667     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004668     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004668     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004668     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004668     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004669     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004669     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004669     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004669     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004670     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004670     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004670     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004670     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004671     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004671     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004671     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004671     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004672     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004672     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004672     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004672     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004673     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004673     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004673     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004673     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004674     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004674     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004674     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004674     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004675     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004675     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004675     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004675     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004676     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004676     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004676     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004676     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004677     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004677     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004677     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004677     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004678     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004678     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004678     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004678     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004679     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004679     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004679     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004679     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004680     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004680     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004680     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004680     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004681     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004681     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004681     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004681     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004682     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004682     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004682     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004682     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004683     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004683     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004683     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004683     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004684     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004684     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004684     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004684     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004685     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004685     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004685     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004685     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004686     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004686     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004686     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004686     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004687     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004687     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004687     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004687     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004688     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004688     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004688     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004688     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004689     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004689     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004689     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004689     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004690     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004690     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004690     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004690     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004691     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004691     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004691     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004691     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004692     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004692     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004692     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004692     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004693     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004693     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004693     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004693     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004694     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004694     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004694     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004694     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004695     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004695     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004695     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004695     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004696     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004696     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004696     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004696     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004697     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004697     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004697     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004697     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004698     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004698     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004698     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004698     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004699     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004699     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004699     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004699     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004700     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004700     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004700     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004700     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004701     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004701     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004701     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004701     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004702     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004702     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004702     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004702     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004703     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004703     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004703     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004703     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004704     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004704     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004704     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004704     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004705     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004705     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004705     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004705     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004706     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004706     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004706     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004706     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004707     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004707     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004707     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004707     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004708     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004708     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004708     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004708     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004709     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004709     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004709     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004709     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004710     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004710     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004710     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004710     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004711     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004711     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004711     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004711     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004712     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004712     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004712     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004712     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004713     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004713     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004713     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004713     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004714     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004714     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004714     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004714     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004715     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004715     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004715     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004715     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004227     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004227     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004228     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004228     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004229     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004229     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004230     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004230     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004231     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004231     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004232     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004232     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004233     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004233     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004234     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004234     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004235     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004235     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004236     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004236     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004237     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004237     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004238     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004238     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004239     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004239     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004240     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004240     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004241     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004241     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004242     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004242     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004243     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004243     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004244     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004244     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004245     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004245     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004246     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004246     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004247     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004247     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004248     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004248     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004249     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004249     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004250     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004250     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004251     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004251     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004252     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004252     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004253     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004253     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004254     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004254     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004255     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004255     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004256     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004256     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004257     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004257     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004258     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004258     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004259     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004259     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004260     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004260     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004261     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004261     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004262     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004262     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004263     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004263     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004264     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004264     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004265     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004265     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004266     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004266     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004267     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004267     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004268     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004268     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004269     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004269     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004270     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004270     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004271     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004271     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004272     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004272     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004273     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004273     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004274     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004274     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004275     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004275     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004276     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004276     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004277     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004277     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004277     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004277     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004278     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004278     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004278     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004278     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004279     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004279     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004280     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004280     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004281     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004281     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004282     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004282     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004283     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004283     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004284     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004284     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004285     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004285     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004286     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004286     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004286     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004286     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004287     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004287     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004288     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004288     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004289     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004289     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004290     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004290     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004290     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004290     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004291     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004291     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004291     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004291     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004292     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004292     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004293     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004293     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004294     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004294     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004295     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004295     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004296     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004296     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004297     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004297     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004298     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004298     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004299     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004299     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004300     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004300     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004301     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004301     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004301     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004301     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004302     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004302     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004303     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004303     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004304     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004304     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004305     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004305     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004306     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004306     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004307     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004307     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004308     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004308     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004309     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004309     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004310     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004310     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004311     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004311     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004312     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004312     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004313     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004313     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004314     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004314     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004315     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004315     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004316     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004316     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004317     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004317     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004317     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004317     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004318     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004318     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004318     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004318     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004319     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004319     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004319     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004319     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004320     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004320     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004320     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004320     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004321     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004321     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004321     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004321     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004322     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004322     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004322     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004322     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004323     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004323     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004323     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004323     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004324     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004324     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004324     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004324     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004325     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004325     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004325     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004325     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004326     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004326     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004326     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004326     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004327     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004327     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004327     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004327     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004328     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004328     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004328     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004328     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004329     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004329     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004329     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004329     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004330     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004330     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004330     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004330     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004331     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004331     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004331     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004331     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004332     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004332     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004332     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004332     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004333     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004333     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004333     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004333     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004334     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004334     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004334     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004334     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004335     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004335     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004335     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004335     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004336     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004336     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004336     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004336     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004337     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004337     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004337     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004337     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004338     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004338     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004338     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004338     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004339     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004339     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004339     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004339     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004340     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004340     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004340     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004340     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004341     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004341     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004341     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004341     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004342     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004342     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004342     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004342     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004343     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004343     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004343     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004343     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004344     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004344     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004344     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004344     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004345     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004345     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004345     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004345     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004346     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004346     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004346     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004346     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004347     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004347     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004347     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004347     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004348     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004348     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004348     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004348     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004349     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004349     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004349     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004349     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004350     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004350     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004350     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004350     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004351     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004351     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004351     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004351     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004352     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004352     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004352     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004352     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004353     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004353     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004353     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004353     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004354     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004354     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004354     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004354     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004355     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004355     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004355     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004355     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004356     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004356     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004356     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004356     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004357     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004357     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004357     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004357     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004358     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004358     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004358     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004358     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004359     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004359     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004359     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004359     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004360     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004360     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004360     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004360     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004361     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004361     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004361     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004361     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004362     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004362     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004362     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004362     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004363     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004363     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004363     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004363     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004364     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004364     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004364     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004364     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004365     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004365     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004365     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004365     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004366     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004366     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004366     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004366     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004367     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004367     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004367     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004367     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004368     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004368     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004368     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004368     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004369     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004369     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004369     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004369     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004370     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004370     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004370     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004370     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004371     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004371     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004371     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004371     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004372     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004372     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004372     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004372     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004373     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004373     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004373     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004373     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004374     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004374     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004374     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004374     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004375     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004375     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004375     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004375     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004376     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004376     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004376     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004376     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004377     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004377     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004377     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004377     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004378     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004378     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004378     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004378     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004379     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004379     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004379     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004379     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004380     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004380     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004380     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004380     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004381     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004381     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004381     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004381     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004382     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004382     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004382     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004382     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004383     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004383     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004383     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004383     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004384     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004384     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004384     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004384     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004385     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004385     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004385     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004385     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004386     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004386     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004386     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004386     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004387     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004387     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004387     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004387     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004388     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004388     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004388     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004388     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004389     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004389     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004389     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004389     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004390     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004390     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004390     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004390     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004391     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004391     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004391     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004391     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004392     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004392     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004392     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004392     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004393     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004393     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004393     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004393     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004394     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004394     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004394     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004394     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004395     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004395     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004395     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004395     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004396     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004396     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004396     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004396     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004397     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004397     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004397     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004397     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004398     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004398     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004398     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004398     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004399     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004399     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004399     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004399     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004400     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004400     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004400     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004400     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004401     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004401     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004401     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004401     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004402     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004402     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004402     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004402     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004403     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004403     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004403     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004403     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004404     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004404     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004404     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004404     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004405     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004405     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004405     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004405     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004406     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004406     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004406     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004406     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004407     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004407     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004407     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004407     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004408     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004408     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004408     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004408     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004409     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004409     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004409     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004409     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004410     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004410     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004410     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004410     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004411     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004411     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004411     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004411     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004412     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004412     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004412     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004412     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004413     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004413     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004413     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004413     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004414     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004414     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004414     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004414     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004415     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004415     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004415     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004415     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004416     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004416     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004416     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004416     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004417     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004417     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004417     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004417     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004418     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004418     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004418     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004418     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004419     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004419     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004419     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004419     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004420     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004420     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004420     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004420     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004421     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004421     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004421     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004421     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004422     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004422     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004422     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004422     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004423     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004423     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004423     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004423     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004424     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004424     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004424     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004424     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004425     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004425     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004425     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004425     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004426     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004426     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004426     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004426     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004427     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004427     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004427     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004427     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004428     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004428     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004428     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004428     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004429     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004429     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004430     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004430     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004431     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004431     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004431     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004431     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004432     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004432     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004432     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004432     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004433     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004433     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004433     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004433     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004434     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004434     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004434     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004434     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004435     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004435     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004435     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004435     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004436     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004436     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004436     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004436     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004437     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004437     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004437     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004437     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004438     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004438     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004438     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004438     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004439     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004439     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004439     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004439     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004440     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004440     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004440     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004440     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004441     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004441     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004441     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004441     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004442     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004442     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004442     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004442     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004443     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004443     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004443     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004443     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004444     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0004444     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004444     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004444     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004445     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004445     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004445     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004445     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004446     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004446     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004446     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004446     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004447     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004447     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004447     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004447     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004448     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004448     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004448     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004448     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004449     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004449     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004449     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004449     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004450     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004450     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004450     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004450     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004451     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004451     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004451     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004451     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004452     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004452     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004452     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004452     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004453     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004453     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004453     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004453     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004454     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004454     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004454     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004454     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004455     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004455     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004455     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004455     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004456     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004456     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004456     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004456     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004457     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004457     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004457     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004457     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004458     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004458     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0004458     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0004458     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0004459     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0004459     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004459     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004459     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004460     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0004460     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0004460     HROFDY 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0004460     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Constr24All.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST CONSTR24ALL.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST CONSTR24ALL.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL CONSTR24ALL.AD\PE00GALL.PLT 33
   SUMMFILE Constr24All.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
* AERMOD (24142 ): Coachella Airport Business Park-Site Preparation DPM+Fugitive Dust       10/01/25
* AERMET ( 22112): PM2.5                                                                    17:12:38
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF    11 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP       RANK     NET ID   DATE(CONC)
* ____________ ____________ _____________ _______ _______ _______ _______ ________ _________ _________ ________
  580086.00000 3722773.00000       0.16633  -39.01  -39.01    0.00  24-HR  ALL        1ST                 18120524
  580122.00000 3722774.00000       0.18340  -38.71  -38.71    0.00  24-HR  ALL        1ST                 18120524
  580172.00000 3722775.00000       0.19223  -38.50  -38.50    0.00  24-HR  ALL        1ST                 18120524
  580242.00000 3722717.00000       0.15387  -38.40  -38.40    0.00  24-HR  ALL        1ST                 18120524
  580289.00000 3722738.00000       0.14988  -37.99  -37.99    0.00  24-HR  ALL        1ST                 22122824
  580337.00000 3722732.00000       0.13707  -37.80  -37.80    0.00  24-HR  ALL        1ST                 22122824
  579963.00000 3722704.00000       0.08943  -36.08  -36.08    0.00  24-HR  ALL        1ST                 21012024
  579927.00000 3722644.00000       0.07696  -36.33  -36.33    0.00  24-HR  ALL        1ST                 21012024
  579519.00000 3722783.00000       0.06392  -36.27  -36.27    0.00  24-HR  ALL        1ST                 19120424
  579466.00000 3722781.00000       0.06056  -36.27  -36.27    0.00  24-HR  ALL        1ST                 19120424
  579393.00000 3722779.00000       0.06198  -36.27  -36.27    0.00  24-HR  ALL        1ST                 17123024
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
```

APPENDIX I

AERMOD Model Operational Year 2028 PM2.5 Emissions Printouts

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 1/6/2026
** File: C:\Vista Env\2019\19039 Coachella\AERMOD\DPM28All\DPM28All.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Coachella Airport Business Park-Operations 2028 DPM+Brakes+Tire Wear
   TITLETWO PM2.5
   MODELOPT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2189641 Riverside_Co
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL DPM28All.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONW
** DESCRSRC Onsite Road West
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000111
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 12
** 580077.130, 3722819.702, -38.87, 0.00, 1.70
** 580075.723, 3722829.973, -38.77, 0.00, 1.70
** 580054.577, 3722864.362, -38.73, 0.00, 1.70
** 580045.833, 3722877.181, -38.88, 0.00, 1.70
** 579930.018, 3723057.672, -38.69, 0.00, 1.70
** 579892.856, 3723115.163, -37.71, 0.00, 1.70
** 579849.461, 3723190.506, -36.29, 0.00, 1.70
** 579823.082, 3723246.755, -36.03, 0.00, 1.70
** 579796.274, 3723323.282, -35.97, 0.00, 1.70
** 579782.061, 3723364.922, -35.95, 0.00, 1.70
** 579768.794, 3723424.825, -36.02, 0.00, 1.70
** 579741.158, 3723594.651, -35.95, 0.00, 1.70
** ------------------------------------------------------------------------
```

LOCATION L0004227 VOLUME 580076.882 3722821.514 -38.77
LOCATION L0004228 VOLUME 580076.385 3722825.138 -38.76
LOCATION L0004229 VOLUME 580075.889 3722828.761 -38.74
LOCATION L0004230 VOLUME 580074.448 3722832.047 -38.73
LOCATION L0004231 VOLUME 580072.532 3722835.163 -38.71
LOCATION L0004232 VOLUME 580070.616 3722838.278 -38.71
LOCATION L0004233 VOLUME 580068.700 3722841.394 -38.71
LOCATION L0004234 VOLUME 580066.784 3722844.510 -38.71
LOCATION L0004235 VOLUME 580064.868 3722847.625 -38.71
LOCATION L0004236 VOLUME 580062.953 3722850.741 -38.71
LOCATION L0004237 VOLUME 580061.037 3722853.857 -38.71
LOCATION L0004238 VOLUME 580059.121 3722856.973 -38.72
LOCATION L0004239 VOLUME 580057.205 3722860.088 -38.74
LOCATION L0004240 VOLUME 580055.289 3722863.204 -38.76
LOCATION L0004241 VOLUME 580053.282 3722866.261 -38.78
LOCATION L0004242 VOLUME 580051.221 3722869.282 -38.79
LOCATION L0004243 VOLUME 580049.160 3722872.303 -38.80
LOCATION L0004244 VOLUME 580047.098 3722875.325 -38.80
LOCATION L0004245 VOLUME 580045.070 3722878.368 -38.80
LOCATION L0004246 VOLUME 580043.095 3722881.447 -38.79
LOCATION L0004247 VOLUME 580041.120 3722884.525 -38.78
LOCATION L0004248 VOLUME 580039.145 3722887.604 -38.77
LOCATION L0004249 VOLUME 580037.169 3722890.682 -38.75
LOCATION L0004250 VOLUME 580035.194 3722893.760 -38.72
LOCATION L0004251 VOLUME 580033.219 3722896.839 -38.71
LOCATION L0004252 VOLUME 580031.243 3722899.917 -38.71
LOCATION L0004253 VOLUME 580029.268 3722902.995 -38.72
LOCATION L0004254 VOLUME 580027.293 3722906.074 -38.73
LOCATION L0004255 VOLUME 580025.318 3722909.152 -38.74
LOCATION L0004256 VOLUME 580023.342 3722912.230 -38.74
LOCATION L0004257 VOLUME 580021.367 3722915.309 -38.74
LOCATION L0004258 VOLUME 580019.392 3722918.387 -38.74
LOCATION L0004259 VOLUME 580017.417 3722921.466 -38.73
LOCATION L0004260 VOLUME 580015.441 3722924.544 -38.71
LOCATION L0004261 VOLUME 580013.466 3722927.622 -38.71
LOCATION L0004262 VOLUME 580011.491 3722930.701 -38.71
LOCATION L0004263 VOLUME 580009.515 3722933.779 -38.71
LOCATION L0004264 VOLUME 580007.540 3722936.857 -38.71
LOCATION L0004265 VOLUME 580005.565 3722939.936 -38.71
LOCATION L0004266 VOLUME 580003.590 3722943.014 -38.71
LOCATION L0004267 VOLUME 580001.614 3722946.092 -38.71
LOCATION L0004268 VOLUME 579999.639 3722949.171 -38.71
LOCATION L0004269 VOLUME 579997.664 3722952.249 -38.71
LOCATION L0004270 VOLUME 579995.689 3722955.328 -38.71
LOCATION L0004271 VOLUME 579993.713 3722958.406 -38.71
LOCATION L0004272 VOLUME 579991.738 3722961.484 -38.71
LOCATION L0004273 VOLUME 579989.763 3722964.563 -38.71
LOCATION L0004274 VOLUME 579987.788 3722967.641 -38.71
LOCATION L0004275 VOLUME 579985.812 3722970.719 -38.71
LOCATION L0004276 VOLUME 579983.837 3722973.798 -38.71
LOCATION L0004277 VOLUME 579981.862 3722976.876 -38.71
LOCATION L0004278 VOLUME 579979.886 3722979.955 -38.71
LOCATION L0004279 VOLUME 579977.911 3722983.033 -38.71
LOCATION L0004280 VOLUME 579975.936 3722986.111 -38.71
LOCATION L0004281 VOLUME 579973.961 3722989.190 -38.71
LOCATION L0004282 VOLUME 579971.985 3722992.268 -38.71
LOCATION L0004283 VOLUME 579970.010 3722995.346 -38.71
LOCATION L0004284 VOLUME 579968.035 3722998.425 -38.71
LOCATION L0004285 VOLUME 579966.060 3723001.503 -38.71
LOCATION L0004286 VOLUME 579964.084 3723004.581 -38.71

LOCATION L0004287 VOLUME 579962.109 3723007.660 -38.71
LOCATION L0004288 VOLUME 579960.134 3723010.738 -38.71
LOCATION L0004289 VOLUME 579958.158 3723013.817 -38.71
LOCATION L0004290 VOLUME 579956.183 3723016.895 -38.70
LOCATION L0004291 VOLUME 579954.208 3723019.973 -38.69
LOCATION L0004292 VOLUME 579952.233 3723023.052 -38.68
LOCATION L0004293 VOLUME 579950.257 3723026.130 -38.67
LOCATION L0004294 VOLUME 579948.282 3723029.208 -38.67
LOCATION L0004295 VOLUME 579946.307 3723032.287 -38.68
LOCATION L0004296 VOLUME 579944.332 3723035.365 -38.68
LOCATION L0004297 VOLUME 579942.356 3723038.443 -38.70
LOCATION L0004298 VOLUME 579940.381 3723041.522 -38.71
LOCATION L0004299 VOLUME 579938.406 3723044.600 -38.71
LOCATION L0004300 VOLUME 579936.430 3723047.679 -38.69
LOCATION L0004301 VOLUME 579934.455 3723050.757 -38.67
LOCATION L0004302 VOLUME 579932.480 3723053.835 -38.65
LOCATION L0004303 VOLUME 579930.505 3723056.914 -38.63
LOCATION L0004304 VOLUME 579928.522 3723059.987 -38.62
LOCATION L0004305 VOLUME 579926.536 3723063.059 -38.61
LOCATION L0004306 VOLUME 579924.550 3723066.130 -38.61
LOCATION L0004307 VOLUME 579922.565 3723069.202 -38.61
LOCATION L0004308 VOLUME 579920.579 3723072.274 -38.62
LOCATION L0004309 VOLUME 579918.594 3723075.346 -38.63
LOCATION L0004310 VOLUME 579916.608 3723078.417 -38.59
LOCATION L0004311 VOLUME 579914.623 3723081.489 -38.55
LOCATION L0004312 VOLUME 579912.637 3723084.561 -38.51
LOCATION L0004313 VOLUME 579910.651 3723087.633 -38.46
LOCATION L0004314 VOLUME 579908.666 3723090.704 -38.37
LOCATION L0004315 VOLUME 579906.680 3723093.776 -38.27
LOCATION L0004316 VOLUME 579904.695 3723096.848 -38.17
LOCATION L0004317 VOLUME 579902.709 3723099.919 -38.07
LOCATION L0004318 VOLUME 579900.723 3723102.991 -37.96
LOCATION L0004319 VOLUME 579898.738 3723106.063 -37.85
LOCATION L0004320 VOLUME 579896.752 3723109.135 -37.76
LOCATION L0004321 VOLUME 579894.767 3723112.206 -37.68
LOCATION L0004322 VOLUME 579892.787 3723115.282 -37.60
LOCATION L0004323 VOLUME 579890.962 3723118.451 -37.52
LOCATION L0004324 VOLUME 579889.136 3723121.621 -37.45
LOCATION L0004325 VOLUME 579887.311 3723124.790 -37.39
LOCATION L0004326 VOLUME 579885.485 3723127.960 -37.32
LOCATION L0004327 VOLUME 579883.660 3723131.129 -37.26
LOCATION L0004328 VOLUME 579881.834 3723134.299 -37.21
LOCATION L0004329 VOLUME 579880.009 3723137.468 -37.15
LOCATION L0004330 VOLUME 579878.183 3723140.638 -37.09
LOCATION L0004331 VOLUME 579876.358 3723143.807 -37.03
LOCATION L0004332 VOLUME 579874.532 3723146.977 -36.97
LOCATION L0004333 VOLUME 579872.707 3723150.146 -36.92
LOCATION L0004334 VOLUME 579870.881 3723153.315 -36.87
LOCATION L0004335 VOLUME 579869.056 3723156.485 -36.82
LOCATION L0004336 VOLUME 579867.230 3723159.654 -36.78
LOCATION L0004337 VOLUME 579865.405 3723162.824 -36.74
LOCATION L0004338 VOLUME 579863.579 3723165.993 -36.70
LOCATION L0004339 VOLUME 579861.754 3723169.163 -36.65
LOCATION L0004340 VOLUME 579859.928 3723172.332 -36.60
LOCATION L0004341 VOLUME 579858.103 3723175.502 -36.55
LOCATION L0004342 VOLUME 579856.277 3723178.671 -36.50
LOCATION L0004343 VOLUME 579854.452 3723181.841 -36.45
LOCATION L0004344 VOLUME 579852.626 3723185.010 -36.40
LOCATION L0004345 VOLUME 579850.801 3723188.180 -36.35
LOCATION L0004346 VOLUME 579849.048 3723191.387 -36.29

LOCATION L0004347 VOLUME 579847.495 3723194.699 -36.25
LOCATION L0004348 VOLUME 579845.942 3723198.010 -36.23
LOCATION L0004349 VOLUME 579844.389 3723201.322 -36.22
LOCATION L0004350 VOLUME 579842.836 3723204.633 -36.22
LOCATION L0004351 VOLUME 579841.283 3723207.945 -36.22
LOCATION L0004352 VOLUME 579839.730 3723211.256 -36.22
LOCATION L0004353 VOLUME 579838.177 3723214.568 -36.23
LOCATION L0004354 VOLUME 579836.624 3723217.879 -36.24
LOCATION L0004355 VOLUME 579835.071 3723221.191 -36.25
LOCATION L0004356 VOLUME 579833.518 3723224.502 -36.27
LOCATION L0004357 VOLUME 579831.965 3723227.814 -36.25
LOCATION L0004358 VOLUME 579830.412 3723231.125 -36.21
LOCATION L0004359 VOLUME 579828.859 3723234.437 -36.18
LOCATION L0004360 VOLUME 579827.306 3723237.749 -36.15
LOCATION L0004361 VOLUME 579825.753 3723241.060 -36.11
LOCATION L0004362 VOLUME 579824.200 3723244.372 -36.08
LOCATION L0004363 VOLUME 579822.743 3723247.722 -36.04
LOCATION L0004364 VOLUME 579821.534 3723251.174 -36.01
LOCATION L0004365 VOLUME 579820.325 3723254.626 -35.97
LOCATION L0004366 VOLUME 579819.115 3723258.078 -35.97
LOCATION L0004367 VOLUME 579817.906 3723261.530 -35.97
LOCATION L0004368 VOLUME 579816.697 3723264.982 -35.97
LOCATION L0004369 VOLUME 579815.488 3723268.434 -35.97
LOCATION L0004370 VOLUME 579814.278 3723271.886 -35.97
LOCATION L0004371 VOLUME 579813.069 3723275.338 -35.97
LOCATION L0004372 VOLUME 579811.860 3723278.790 -35.97
LOCATION L0004373 VOLUME 579810.651 3723282.242 -35.97
LOCATION L0004374 VOLUME 579809.441 3723285.694 -35.97
LOCATION L0004375 VOLUME 579808.232 3723289.145 -35.97
LOCATION L0004376 VOLUME 579807.023 3723292.597 -35.97
LOCATION L0004377 VOLUME 579805.814 3723296.049 -35.97
LOCATION L0004378 VOLUME 579804.604 3723299.501 -35.97
LOCATION L0004379 VOLUME 579803.395 3723302.953 -35.97
LOCATION L0004380 VOLUME 579802.186 3723306.405 -35.97
LOCATION L0004381 VOLUME 579800.977 3723309.857 -35.97
LOCATION L0004382 VOLUME 579799.767 3723313.309 -35.97
LOCATION L0004383 VOLUME 579798.558 3723316.761 -35.96
LOCATION L0004384 VOLUME 579797.349 3723320.213 -35.96
LOCATION L0004385 VOLUME 579796.143 3723323.666 -35.95
LOCATION L0004386 VOLUME 579794.961 3723327.127 -35.95
LOCATION L0004387 VOLUME 579793.780 3723330.589 -35.95
LOCATION L0004388 VOLUME 579792.598 3723334.050 -35.95
LOCATION L0004389 VOLUME 579791.417 3723337.512 -35.96
LOCATION L0004390 VOLUME 579790.235 3723340.973 -35.97
LOCATION L0004391 VOLUME 579789.054 3723344.435 -35.97
LOCATION L0004392 VOLUME 579787.872 3723347.896 -35.97
LOCATION L0004393 VOLUME 579786.691 3723351.358 -35.97
LOCATION L0004394 VOLUME 579785.509 3723354.819 -35.97
LOCATION L0004395 VOLUME 579784.328 3723358.281 -35.97
LOCATION L0004396 VOLUME 579783.146 3723361.743 -35.97
LOCATION L0004397 VOLUME 579781.997 3723365.213 -35.97
LOCATION L0004398 VOLUME 579781.206 3723368.784 -35.97
LOCATION L0004399 VOLUME 579780.415 3723372.355 -35.97
LOCATION L0004400 VOLUME 579779.624 3723375.926 -35.97
LOCATION L0004401 VOLUME 579778.833 3723379.497 -35.97
LOCATION L0004402 VOLUME 579778.042 3723383.068 -35.97
LOCATION L0004403 VOLUME 579777.251 3723386.639 -35.97
LOCATION L0004404 VOLUME 579776.460 3723390.210 -35.97
LOCATION L0004405 VOLUME 579775.670 3723393.781 -35.97
LOCATION L0004406 VOLUME 579774.879 3723397.353 -35.97

```
   LOCATION L0004407     VOLUME   579774.088 3723400.924 -35.97
   LOCATION L0004408     VOLUME   579773.297 3723404.495 -35.97
   LOCATION L0004409     VOLUME   579772.506 3723408.066 -35.98
   LOCATION L0004410     VOLUME   579771.715 3723411.637 -35.99
   LOCATION L0004411     VOLUME   579770.924 3723415.208 -36.00
   LOCATION L0004412     VOLUME   579770.133 3723418.779 -36.01
   LOCATION L0004413     VOLUME   579769.342 3723422.350 -36.02
   LOCATION L0004414     VOLUME   579768.614 3723425.933 -36.02
   LOCATION L0004415     VOLUME   579768.026 3723429.543 -36.03
   LOCATION L0004416     VOLUME   579767.439 3723433.153 -36.03
   LOCATION L0004417     VOLUME   579766.851 3723436.763 -36.03
   LOCATION L0004418     VOLUME   579766.264 3723440.374 -36.02
   LOCATION L0004419     VOLUME   579765.676 3723443.984 -36.02
   LOCATION L0004420     VOLUME   579765.089 3723447.594 -36.01
   LOCATION L0004421     VOLUME   579764.502 3723451.204 -36.01
   LOCATION L0004422     VOLUME   579763.914 3723454.814 -36.00
   LOCATION L0004423     VOLUME   579763.327 3723458.424 -35.99
   LOCATION L0004424     VOLUME   579762.739 3723462.034 -35.99
   LOCATION L0004425     VOLUME   579762.152 3723465.644 -35.98
   LOCATION L0004426     VOLUME   579761.564 3723469.254 -35.98
   LOCATION L0004427     VOLUME   579760.977 3723472.865 -35.97
   LOCATION L0004428     VOLUME   579760.389 3723476.475 -35.97
   LOCATION L0004429     VOLUME   579759.802 3723480.085 -35.97
   LOCATION L0004430     VOLUME   579759.214 3723483.695 -35.97
   LOCATION L0004431     VOLUME   579758.627 3723487.305 -35.97
   LOCATION L0004432     VOLUME   579758.039 3723490.915 -35.97
   LOCATION L0004433     VOLUME   579757.452 3723494.525 -35.97
   LOCATION L0004434     VOLUME   579756.864 3723498.135 -35.97
   LOCATION L0004435     VOLUME   579756.277 3723501.745 -35.97
   LOCATION L0004436     VOLUME   579755.689 3723505.356 -35.97
   LOCATION L0004437     VOLUME   579755.102 3723508.966 -35.97
   LOCATION L0004438     VOLUME   579754.514 3723512.576 -35.97
   LOCATION L0004439     VOLUME   579753.927 3723516.186 -35.97
   LOCATION L0004440     VOLUME   579753.339 3723519.796 -35.97
   LOCATION L0004441     VOLUME   579752.752 3723523.406 -35.97
   LOCATION L0004442     VOLUME   579752.164 3723527.016 -35.97
   LOCATION L0004443     VOLUME   579751.577 3723530.626 -35.97
   LOCATION L0004444     VOLUME   579750.989 3723534.236 -35.97
   LOCATION L0004445     VOLUME   579750.402 3723537.847 -35.97
   LOCATION L0004446     VOLUME   579749.814 3723541.457 -35.97
   LOCATION L0004447     VOLUME   579749.227 3723545.067 -35.97
   LOCATION L0004448     VOLUME   579748.640 3723548.677 -35.97
   LOCATION L0004449     VOLUME   579748.052 3723552.287 -35.97
   LOCATION L0004450     VOLUME   579747.465 3723555.897 -35.97
   LOCATION L0004451     VOLUME   579746.877 3723559.507 -35.97
   LOCATION L0004452     VOLUME   579746.290 3723563.117 -35.97
   LOCATION L0004453     VOLUME   579745.702 3723566.727 -35.97
   LOCATION L0004454     VOLUME   579745.115 3723570.338 -35.97
   LOCATION L0004455     VOLUME   579744.527 3723573.948 -35.97
   LOCATION L0004456     VOLUME   579743.940 3723577.558 -35.97
   LOCATION L0004457     VOLUME   579743.352 3723581.168 -35.97
   LOCATION L0004458     VOLUME   579742.765 3723584.778 -35.97
   LOCATION L0004459     VOLUME   579742.177 3723588.388 -35.97
   LOCATION L0004460     VOLUME   579741.590 3723591.998 -35.97
** End of LINE VOLUME Source ID = RDONW
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDONE
** DESCRSRC Onsite Road East
** PREFIX
```

```
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000121
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 8
** 580084.803, 3722819.072, -38.78, 0.00, 1.70
** 580080.336, 3722834.916, -38.71, 0.00, 1.70
** 580061.103, 3722870.673, -38.71, 0.00, 1.70
** 580150.441, 3722922.251, -38.12, 0.00, 1.70
** 580155.671, 3722938.520, -38.14, 0.00, 1.70
** 580022.092, 3723172.662, -37.73, 0.00, 1.70
** 579908.840, 3723363.451, -36.27, 0.00, 1.70
** 579779.880, 3723593.961, -35.97, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0004461     VOLUME   580084.307 3722820.832 -38.74
   LOCATION L0004462     VOLUME   580083.314 3722824.352 -38.74
   LOCATION L0004463     VOLUME   580082.322 3722827.873 -38.73
   LOCATION L0004464     VOLUME   580081.329 3722831.393 -38.72
   LOCATION L0004465     VOLUME   580080.337 3722834.913 -38.71
   LOCATION L0004466     VOLUME   580078.605 3722838.135 -38.71
   LOCATION L0004467     VOLUME   580076.872 3722841.356 -38.71
   LOCATION L0004468     VOLUME   580075.139 3722844.577 -38.71
   LOCATION L0004469     VOLUME   580073.407 3722847.799 -38.71
   LOCATION L0004470     VOLUME   580071.674 3722851.020 -38.71
   LOCATION L0004471     VOLUME   580069.942 3722854.241 -38.71
   LOCATION L0004472     VOLUME   580068.209 3722857.462 -38.71
   LOCATION L0004473     VOLUME   580066.477 3722860.683 -38.71
   LOCATION L0004474     VOLUME   580064.744 3722863.905 -38.71
   LOCATION L0004475     VOLUME   580063.011 3722867.126 -38.71
   LOCATION L0004476     VOLUME   580061.279 3722870.347 -38.71
   LOCATION L0004477     VOLUME   580063.950 3722872.317 -38.70
   LOCATION L0004478     VOLUME   580067.118 3722874.145 -38.69
   LOCATION L0004479     VOLUME   580070.285 3722875.974 -38.67
   LOCATION L0004480     VOLUME   580073.453 3722877.803 -38.66
   LOCATION L0004481     VOLUME   580076.621 3722879.632 -38.63
   LOCATION L0004482     VOLUME   580079.788 3722881.461 -38.61
   LOCATION L0004483     VOLUME   580082.956 3722883.289 -38.57
   LOCATION L0004484     VOLUME   580086.123 3722885.118 -38.54
   LOCATION L0004485     VOLUME   580089.291 3722886.947 -38.50
   LOCATION L0004486     VOLUME   580092.459 3722888.776 -38.47
   LOCATION L0004487     VOLUME   580095.626 3722890.604 -38.45
   LOCATION L0004488     VOLUME   580098.794 3722892.433 -38.43
   LOCATION L0004489     VOLUME   580101.961 3722894.262 -38.41
   LOCATION L0004490     VOLUME   580105.129 3722896.091 -38.40
   LOCATION L0004491     VOLUME   580108.297 3722897.919 -38.40
   LOCATION L0004492     VOLUME   580111.464 3722899.748 -38.40
   LOCATION L0004493     VOLUME   580114.632 3722901.577 -38.40
   LOCATION L0004494     VOLUME   580117.799 3722903.406 -38.40
   LOCATION L0004495     VOLUME   580120.967 3722905.234 -38.40
   LOCATION L0004496     VOLUME   580124.135 3722907.063 -38.39
   LOCATION L0004497     VOLUME   580127.302 3722908.892 -38.37
   LOCATION L0004498     VOLUME   580130.470 3722910.721 -38.35
   LOCATION L0004499     VOLUME   580133.637 3722912.549 -38.33
   LOCATION L0004500     VOLUME   580136.805 3722914.378 -38.30
   LOCATION L0004501     VOLUME   580139.973 3722916.207 -38.27
   LOCATION L0004502     VOLUME   580143.140 3722918.036 -38.23
   LOCATION L0004503     VOLUME   580146.308 3722919.864 -38.19
   LOCATION L0004504     VOLUME   580149.475 3722921.693 -38.15
   LOCATION L0004505     VOLUME   580151.219 3722924.671 -38.11
```

LOCATION L0004506 VOLUME 580152.339 3722928.153 -38.10
LOCATION L0004507 VOLUME 580153.458 3722931.635 -38.10
LOCATION L0004508 VOLUME 580154.577 3722935.118 -38.10
LOCATION L0004509 VOLUME 580155.629 3722938.593 -38.10
LOCATION L0004510 VOLUME 580153.817 3722941.770 -38.10
LOCATION L0004511 VOLUME 580152.004 3722944.947 -38.10
LOCATION L0004512 VOLUME 580150.192 3722948.124 -38.10
LOCATION L0004513 VOLUME 580148.379 3722951.300 -38.10
LOCATION L0004514 VOLUME 580146.567 3722954.477 -38.10
LOCATION L0004515 VOLUME 580144.754 3722957.654 -38.10
LOCATION L0004516 VOLUME 580142.942 3722960.831 -38.10
LOCATION L0004517 VOLUME 580141.130 3722964.008 -38.10
LOCATION L0004518 VOLUME 580139.317 3722967.185 -38.10
LOCATION L0004519 VOLUME 580137.505 3722970.362 -38.10
LOCATION L0004520 VOLUME 580135.692 3722973.539 -38.10
LOCATION L0004521 VOLUME 580133.880 3722976.716 -38.10
LOCATION L0004522 VOLUME 580132.067 3722979.893 -38.10
LOCATION L0004523 VOLUME 580130.255 3722983.070 -38.10
LOCATION L0004524 VOLUME 580128.442 3722986.247 -38.10
LOCATION L0004525 VOLUME 580126.630 3722989.424 -38.09
LOCATION L0004526 VOLUME 580124.817 3722992.601 -38.09
LOCATION L0004527 VOLUME 580123.005 3722995.778 -38.09
LOCATION L0004528 VOLUME 580121.192 3722998.955 -38.10
LOCATION L0004529 VOLUME 580119.380 3723002.132 -38.10
LOCATION L0004530 VOLUME 580117.567 3723005.309 -38.10
LOCATION L0004531 VOLUME 580115.755 3723008.486 -38.10
LOCATION L0004532 VOLUME 580113.943 3723011.663 -38.10
LOCATION L0004533 VOLUME 580112.130 3723014.839 -38.10
LOCATION L0004534 VOLUME 580110.318 3723018.016 -38.08
LOCATION L0004535 VOLUME 580108.505 3723021.193 -38.07
LOCATION L0004536 VOLUME 580106.693 3723024.370 -38.05
LOCATION L0004537 VOLUME 580104.880 3723027.547 -38.04
LOCATION L0004538 VOLUME 580103.068 3723030.724 -38.04
LOCATION L0004539 VOLUME 580101.255 3723033.901 -38.03
LOCATION L0004540 VOLUME 580099.443 3723037.078 -38.04
LOCATION L0004541 VOLUME 580097.630 3723040.255 -38.04
LOCATION L0004542 VOLUME 580095.818 3723043.432 -38.05
LOCATION L0004543 VOLUME 580094.005 3723046.609 -38.05
LOCATION L0004544 VOLUME 580092.193 3723049.786 -38.04
LOCATION L0004545 VOLUME 580090.381 3723052.963 -38.02
LOCATION L0004546 VOLUME 580088.568 3723056.140 -38.00
LOCATION L0004547 VOLUME 580086.756 3723059.317 -37.98
LOCATION L0004548 VOLUME 580084.943 3723062.494 -37.96
LOCATION L0004549 VOLUME 580083.131 3723065.671 -37.95
LOCATION L0004550 VOLUME 580081.318 3723068.848 -37.94
LOCATION L0004551 VOLUME 580079.506 3723072.025 -37.93
LOCATION L0004552 VOLUME 580077.693 3723075.202 -37.93
LOCATION L0004553 VOLUME 580075.881 3723078.378 -37.93
LOCATION L0004554 VOLUME 580074.068 3723081.555 -37.93
LOCATION L0004555 VOLUME 580072.256 3723084.732 -37.92
LOCATION L0004556 VOLUME 580070.443 3723087.909 -37.91
LOCATION L0004557 VOLUME 580068.631 3723091.086 -37.90
LOCATION L0004558 VOLUME 580066.818 3723094.263 -37.89
LOCATION L0004559 VOLUME 580065.006 3723097.440 -37.86
LOCATION L0004560 VOLUME 580063.194 3723100.617 -37.84
LOCATION L0004561 VOLUME 580061.381 3723103.794 -37.81
LOCATION L0004562 VOLUME 580059.569 3723106.971 -37.81
LOCATION L0004563 VOLUME 580057.756 3723110.148 -37.82
LOCATION L0004564 VOLUME 580055.944 3723113.325 -37.83
LOCATION L0004565 VOLUME 580054.131 3723116.502 -37.84

LOCATION L0004566 VOLUME 580052.319 3723119.679 -37.84
LOCATION L0004567 VOLUME 580050.506 3723122.856 -37.84
LOCATION L0004568 VOLUME 580048.694 3723126.033 -37.83
LOCATION L0004569 VOLUME 580046.881 3723129.210 -37.82
LOCATION L0004570 VOLUME 580045.069 3723132.387 -37.81
LOCATION L0004571 VOLUME 580043.256 3723135.564 -37.79
LOCATION L0004572 VOLUME 580041.444 3723138.741 -37.78
LOCATION L0004573 VOLUME 580039.632 3723141.917 -37.78
LOCATION L0004574 VOLUME 580037.819 3723145.094 -37.77
LOCATION L0004575 VOLUME 580036.007 3723148.271 -37.77
LOCATION L0004576 VOLUME 580034.194 3723151.448 -37.78
LOCATION L0004577 VOLUME 580032.382 3723154.625 -37.78
LOCATION L0004578 VOLUME 580030.569 3723157.802 -37.80
LOCATION L0004579 VOLUME 580028.757 3723160.979 -37.78
LOCATION L0004580 VOLUME 580026.944 3723164.156 -37.76
LOCATION L0004581 VOLUME 580025.132 3723167.333 -37.72
LOCATION L0004582 VOLUME 580023.319 3723170.510 -37.67
LOCATION L0004583 VOLUME 580021.489 3723173.677 -37.62
LOCATION L0004584 VOLUME 580019.622 3723176.822 -37.57
LOCATION L0004585 VOLUME 580017.755 3723179.967 -37.52
LOCATION L0004586 VOLUME 580015.888 3723183.112 -37.47
LOCATION L0004587 VOLUME 580014.021 3723186.258 -37.42
LOCATION L0004588 VOLUME 580012.154 3723189.403 -37.36
LOCATION L0004589 VOLUME 580010.287 3723192.548 -37.31
LOCATION L0004590 VOLUME 580008.420 3723195.693 -37.26
LOCATION L0004591 VOLUME 580006.553 3723198.838 -37.22
LOCATION L0004592 VOLUME 580004.686 3723201.984 -37.17
LOCATION L0004593 VOLUME 580002.819 3723205.129 -37.12
LOCATION L0004594 VOLUME 580000.952 3723208.274 -37.06
LOCATION L0004595 VOLUME 579999.085 3723211.419 -37.03
LOCATION L0004596 VOLUME 579997.218 3723214.565 -37.01
LOCATION L0004597 VOLUME 579995.351 3723217.710 -37.00
LOCATION L0004598 VOLUME 579993.484 3723220.855 -36.99
LOCATION L0004599 VOLUME 579991.617 3723224.000 -36.98
LOCATION L0004600 VOLUME 579989.750 3723227.145 -36.98
LOCATION L0004601 VOLUME 579987.883 3723230.291 -36.99
LOCATION L0004602 VOLUME 579986.016 3723233.436 -36.99
LOCATION L0004603 VOLUME 579984.149 3723236.581 -36.99
LOCATION L0004604 VOLUME 579982.282 3723239.726 -36.98
LOCATION L0004605 VOLUME 579980.415 3723242.871 -36.97
LOCATION L0004606 VOLUME 579978.548 3723246.017 -36.95
LOCATION L0004607 VOLUME 579976.681 3723249.162 -36.93
LOCATION L0004608 VOLUME 579974.814 3723252.307 -36.91
LOCATION L0004609 VOLUME 579972.947 3723255.452 -36.88
LOCATION L0004610 VOLUME 579971.080 3723258.598 -36.85
LOCATION L0004611 VOLUME 579969.213 3723261.743 -36.80
LOCATION L0004612 VOLUME 579967.346 3723264.888 -36.75
LOCATION L0004613 VOLUME 579965.479 3723268.033 -36.70
LOCATION L0004614 VOLUME 579963.612 3723271.178 -36.65
LOCATION L0004615 VOLUME 579961.745 3723274.324 -36.60
LOCATION L0004616 VOLUME 579959.879 3723277.469 -36.55
LOCATION L0004617 VOLUME 579958.012 3723280.614 -36.50
LOCATION L0004618 VOLUME 579956.145 3723283.759 -36.45
LOCATION L0004619 VOLUME 579954.278 3723286.904 -36.40
LOCATION L0004620 VOLUME 579952.411 3723290.050 -36.37
LOCATION L0004621 VOLUME 579950.544 3723293.195 -36.35
LOCATION L0004622 VOLUME 579948.677 3723296.340 -36.32
LOCATION L0004623 VOLUME 579946.810 3723299.485 -36.30
LOCATION L0004624 VOLUME 579944.943 3723302.631 -36.29
LOCATION L0004625 VOLUME 579943.076 3723305.776 -36.28

LOCATION L0004626 VOLUME 579941.209 3723308.921 -36.27
LOCATION L0004627 VOLUME 579939.342 3723312.066 -36.27
LOCATION L0004628 VOLUME 579937.475 3723315.211 -36.27
LOCATION L0004629 VOLUME 579935.608 3723318.357 -36.27
LOCATION L0004630 VOLUME 579933.741 3723321.502 -36.27
LOCATION L0004631 VOLUME 579931.874 3723324.647 -36.27
LOCATION L0004632 VOLUME 579930.007 3723327.792 -36.27
LOCATION L0004633 VOLUME 579928.140 3723330.937 -36.27
LOCATION L0004634 VOLUME 579926.273 3723334.083 -36.27
LOCATION L0004635 VOLUME 579924.406 3723337.228 -36.27
LOCATION L0004636 VOLUME 579922.539 3723340.373 -36.27
LOCATION L0004637 VOLUME 579920.672 3723343.518 -36.27
LOCATION L0004638 VOLUME 579918.805 3723346.664 -36.27
LOCATION L0004639 VOLUME 579916.938 3723349.809 -36.27
LOCATION L0004640 VOLUME 579915.071 3723352.954 -36.27
LOCATION L0004641 VOLUME 579913.204 3723356.099 -36.27
LOCATION L0004642 VOLUME 579911.337 3723359.244 -36.27
LOCATION L0004643 VOLUME 579909.470 3723362.390 -36.27
LOCATION L0004644 VOLUME 579907.656 3723365.566 -36.27
LOCATION L0004645 VOLUME 579905.871 3723368.758 -36.27
LOCATION L0004646 VOLUME 579904.085 3723371.950 -36.27
LOCATION L0004647 VOLUME 579902.299 3723375.142 -36.27
LOCATION L0004648 VOLUME 579900.513 3723378.334 -36.27
LOCATION L0004649 VOLUME 579898.728 3723381.526 -36.27
LOCATION L0004650 VOLUME 579896.942 3723384.718 -36.27
LOCATION L0004651 VOLUME 579895.156 3723387.910 -36.27
LOCATION L0004652 VOLUME 579893.370 3723391.102 -36.27
LOCATION L0004653 VOLUME 579891.584 3723394.294 -36.27
LOCATION L0004654 VOLUME 579889.799 3723397.486 -36.27
LOCATION L0004655 VOLUME 579888.013 3723400.678 -36.27
LOCATION L0004656 VOLUME 579886.227 3723403.870 -36.27
LOCATION L0004657 VOLUME 579884.441 3723407.062 -36.27
LOCATION L0004658 VOLUME 579882.655 3723410.254 -36.27
LOCATION L0004659 VOLUME 579880.870 3723413.446 -36.27
LOCATION L0004660 VOLUME 579879.084 3723416.638 -36.26
LOCATION L0004661 VOLUME 579877.298 3723419.830 -36.24
LOCATION L0004662 VOLUME 579875.512 3723423.022 -36.22
LOCATION L0004663 VOLUME 579873.727 3723426.214 -36.20
LOCATION L0004664 VOLUME 579871.941 3723429.406 -36.18
LOCATION L0004665 VOLUME 579870.155 3723432.598 -36.17
LOCATION L0004666 VOLUME 579868.369 3723435.790 -36.15
LOCATION L0004667 VOLUME 579866.583 3723438.982 -36.13
LOCATION L0004668 VOLUME 579864.798 3723442.174 -36.11
LOCATION L0004669 VOLUME 579863.012 3723445.366 -36.09
LOCATION L0004670 VOLUME 579861.226 3723448.558 -36.07
LOCATION L0004671 VOLUME 579859.440 3723451.750 -36.06
LOCATION L0004672 VOLUME 579857.655 3723454.942 -36.04
LOCATION L0004673 VOLUME 579855.869 3723458.134 -36.02
LOCATION L0004674 VOLUME 579854.083 3723461.327 -36.00
LOCATION L0004675 VOLUME 579852.297 3723464.519 -35.98
LOCATION L0004676 VOLUME 579850.511 3723467.711 -35.99
LOCATION L0004677 VOLUME 579848.726 3723470.903 -36.04
LOCATION L0004678 VOLUME 579846.940 3723474.095 -36.08
LOCATION L0004679 VOLUME 579845.154 3723477.287 -36.12
LOCATION L0004680 VOLUME 579843.368 3723480.479 -36.16
LOCATION L0004681 VOLUME 579841.582 3723483.671 -36.19
LOCATION L0004682 VOLUME 579839.797 3723486.863 -36.22
LOCATION L0004683 VOLUME 579838.011 3723490.055 -36.24
LOCATION L0004684 VOLUME 579836.225 3723493.247 -36.26
LOCATION L0004685 VOLUME 579834.439 3723496.439 -36.26

```
   LOCATION L0004686     VOLUME   579832.654 3723499.631 -36.23
   LOCATION L0004687     VOLUME   579830.868 3723502.823 -36.20
   LOCATION L0004688     VOLUME   579829.082 3723506.015 -36.16
   LOCATION L0004689     VOLUME   579827.296 3723509.207 -36.13
   LOCATION L0004690     VOLUME   579825.510 3723512.399 -36.10
   LOCATION L0004691     VOLUME   579823.725 3723515.591 -36.07
   LOCATION L0004692     VOLUME   579821.939 3723518.783 -36.03
   LOCATION L0004693     VOLUME   579820.153 3723521.975 -36.00
   LOCATION L0004694     VOLUME   579818.367 3723525.167 -35.97
   LOCATION L0004695     VOLUME   579816.581 3723528.359 -35.97
   LOCATION L0004696     VOLUME   579814.796 3723531.551 -35.97
   LOCATION L0004697     VOLUME   579813.010 3723534.743 -35.97
   LOCATION L0004698     VOLUME   579811.224 3723537.935 -35.97
   LOCATION L0004699     VOLUME   579809.438 3723541.127 -35.97
   LOCATION L0004700     VOLUME   579807.653 3723544.319 -35.97
   LOCATION L0004701     VOLUME   579805.867 3723547.511 -35.97
   LOCATION L0004702     VOLUME   579804.081 3723550.703 -35.97
   LOCATION L0004703     VOLUME   579802.295 3723553.895 -35.97
   LOCATION L0004704     VOLUME   579800.509 3723557.087 -35.97
   LOCATION L0004705     VOLUME   579798.724 3723560.279 -35.97
   LOCATION L0004706     VOLUME   579796.938 3723563.471 -35.97
   LOCATION L0004707     VOLUME   579795.152 3723566.663 -35.97
   LOCATION L0004708     VOLUME   579793.366 3723569.855 -35.97
   LOCATION L0004709     VOLUME   579791.580 3723573.047 -35.97
   LOCATION L0004710     VOLUME   579789.795 3723576.239 -35.97
   LOCATION L0004711     VOLUME   579788.009 3723579.431 -35.97
   LOCATION L0004712     VOLUME   579786.223 3723582.623 -35.97
   LOCATION L0004713     VOLUME   579784.437 3723585.815 -35.97
   LOCATION L0004714     VOLUME   579782.652 3723589.007 -35.97
   LOCATION L0004715     VOLUME   579780.866 3723592.199 -35.97
** End of LINE VOLUME Source ID = RDONE
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRW
** DESCRSRC Airport Blvd west of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 0.0000361
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 7
** 580077.815, 3722811.474, -38.84, 0.00, 5.67
** 579930.520, 3722810.498, -38.31, 0.00, 5.67
** 579724.565, 3722817.970, -36.23, 0.00, 5.67
** 579657.572, 3722818.633, -36.01, 0.00, 5.67
** 579442.005, 3722818.125, -36.27, 0.00, 5.67
** 579336.736, 3722811.183, -36.27, 0.00, 5.67
** 579251.350, 3722810.179, -35.97, 0.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0004716     VOLUME   580071.719 3722811.433 -38.86
   LOCATION L0004717     VOLUME   580059.528 3722811.353 -38.96
   LOCATION L0004718     VOLUME   580047.336 3722811.272 -38.98
   LOCATION L0004719     VOLUME   580035.144 3722811.191 -39.01
   LOCATION L0004720     VOLUME   580022.952 3722811.110 -39.01
   LOCATION L0004721     VOLUME   580010.761 3722811.030 -39.01
   LOCATION L0004722     VOLUME   579998.569 3722810.949 -38.98
   LOCATION L0004723     VOLUME   579986.377 3722810.868 -38.75
   LOCATION L0004724     VOLUME   579974.185 3722810.787 -38.53
   LOCATION L0004725     VOLUME   579961.994 3722810.707 -38.44
```

```
   LOCATION L0004726     VOLUME   579949.802 3722810.626 -38.42
   LOCATION L0004727     VOLUME   579937.610 3722810.545 -38.38
   LOCATION L0004728     VOLUME   579925.422 3722810.683 -38.28
   LOCATION L0004729     VOLUME   579913.238 3722811.125 -38.18
   LOCATION L0004730     VOLUME   579901.054 3722811.567 -38.07
   LOCATION L0004731     VOLUME   579888.870 3722812.009 -37.95
   LOCATION L0004732     VOLUME   579876.686 3722812.451 -37.79
   LOCATION L0004733     VOLUME   579864.502 3722812.893 -37.54
   LOCATION L0004734     VOLUME   579852.318 3722813.335 -37.30
   LOCATION L0004735     VOLUME   579840.134 3722813.777 -37.24
   LOCATION L0004736     VOLUME   579827.950 3722814.219 -37.21
   LOCATION L0004737     VOLUME   579815.766 3722814.661 -37.15
   LOCATION L0004738     VOLUME   579803.582 3722815.103 -37.07
   LOCATION L0004739     VOLUME   579791.398 3722815.545 -36.99
   LOCATION L0004740     VOLUME   579779.214 3722815.987 -36.83
   LOCATION L0004741     VOLUME   579767.030 3722816.429 -36.67
   LOCATION L0004742     VOLUME   579754.846 3722816.871 -36.52
   LOCATION L0004743     VOLUME   579742.662 3722817.313 -36.39
   LOCATION L0004744     VOLUME   579730.478 3722817.755 -36.27
   LOCATION L0004745     VOLUME   579718.290 3722818.032 -36.20
   LOCATION L0004746     VOLUME   579706.099 3722818.153 -36.13
   LOCATION L0004747     VOLUME   579693.907 3722818.273 -36.07
   LOCATION L0004748     VOLUME   579681.716 3722818.394 -36.02
   LOCATION L0004749     VOLUME   579669.525 3722818.515 -35.97
   LOCATION L0004750     VOLUME   579657.333 3722818.632 -35.97
   LOCATION L0004751     VOLUME   579645.141 3722818.604 -35.97
   LOCATION L0004752     VOLUME   579632.949 3722818.575 -36.01
   LOCATION L0004753     VOLUME   579620.757 3722818.546 -36.08
   LOCATION L0004754     VOLUME   579608.565 3722818.517 -36.14
   LOCATION L0004755     VOLUME   579596.373 3722818.489 -36.14
   LOCATION L0004756     VOLUME   579584.181 3722818.460 -36.14
   LOCATION L0004757     VOLUME   579571.989 3722818.431 -36.14
   LOCATION L0004758     VOLUME   579559.797 3722818.402 -36.14
   LOCATION L0004759     VOLUME   579547.605 3722818.374 -36.14
   LOCATION L0004760     VOLUME   579535.413 3722818.345 -36.14
   LOCATION L0004761     VOLUME   579523.222 3722818.316 -36.14
   LOCATION L0004762     VOLUME   579511.030 3722818.287 -36.14
   LOCATION L0004763     VOLUME   579498.838 3722818.259 -36.14
   LOCATION L0004764     VOLUME   579486.646 3722818.230 -36.14
   LOCATION L0004765     VOLUME   579474.454 3722818.201 -36.14
   LOCATION L0004766     VOLUME   579462.262 3722818.172 -36.14
   LOCATION L0004767     VOLUME   579450.070 3722818.144 -36.19
   LOCATION L0004768     VOLUME   579437.887 3722817.853 -36.24
   LOCATION L0004769     VOLUME   579425.721 3722817.051 -36.27
   LOCATION L0004770     VOLUME   579413.556 3722816.249 -36.27
   LOCATION L0004771     VOLUME   579401.390 3722815.446 -36.27
   LOCATION L0004772     VOLUME   579389.224 3722814.644 -36.27
   LOCATION L0004773     VOLUME   579377.059 3722813.842 -36.27
   LOCATION L0004774     VOLUME   579364.893 3722813.040 -36.27
   LOCATION L0004775     VOLUME   579352.728 3722812.238 -36.27
   LOCATION L0004776     VOLUME   579340.562 3722811.436 -36.27
   LOCATION L0004777     VOLUME   579328.379 3722811.085 -36.25
   LOCATION L0004778     VOLUME   579316.188 3722810.942 -36.23
   LOCATION L0004779     VOLUME   579303.997 3722810.798 -36.22
   LOCATION L0004780     VOLUME   579291.805 3722810.655 -36.22
   LOCATION L0004781     VOLUME   579279.614 3722810.511 -36.21
   LOCATION L0004782     VOLUME   579267.423 3722810.368 -36.11
   LOCATION L0004783     VOLUME   579255.232 3722810.225 -36.01
** End of LINE VOLUME Source ID = RDAIRW
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDAIRE
** DESCRSRC Airport Blvd east of Project Site
** PREFIX
** Length of Side = 12.19
** Configuration = Adjacent
** Emission Rate = 0.0000844
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 3
** 580086.549, 3722811.395, -38.73, 0.00, 5.67
** 580220.964, 3722809.641, -38.34, 0.00, 5.67
** 580570.484, 3722812.421, -37.19, 0.00, 5.67
** ----------------------------------------------------------------------
   LOCATION L0004784     VOLUME   580092.645 3722811.316 -38.71
   LOCATION L0004785     VOLUME   580104.836 3722811.157 -38.71
   LOCATION L0004786     VOLUME   580117.026 3722810.998 -38.71
   LOCATION L0004787     VOLUME   580129.217 3722810.838 -38.62
   LOCATION L0004788     VOLUME   580141.408 3722810.679 -38.50
   LOCATION L0004789     VOLUME   580153.599 3722810.520 -38.40
   LOCATION L0004790     VOLUME   580165.790 3722810.361 -38.40
   LOCATION L0004791     VOLUME   580177.981 3722810.202 -38.40
   LOCATION L0004792     VOLUME   580190.172 3722810.043 -38.39
   LOCATION L0004793     VOLUME   580202.363 3722809.884 -38.37
   LOCATION L0004794     VOLUME   580214.554 3722809.725 -38.33
   LOCATION L0004795     VOLUME   580226.745 3722809.687 -38.22
   LOCATION L0004796     VOLUME   580238.937 3722809.784 -38.11
   LOCATION L0004797     VOLUME   580251.129 3722809.881 -38.10
   LOCATION L0004798     VOLUME   580263.320 3722809.978 -38.10
   LOCATION L0004799     VOLUME   580275.512 3722810.075 -38.09
   LOCATION L0004800     VOLUME   580287.704 3722810.172 -38.07
   LOCATION L0004801     VOLUME   580299.895 3722810.269 -38.05
   LOCATION L0004802     VOLUME   580312.087 3722810.366 -37.85
   LOCATION L0004803     VOLUME   580324.278 3722810.463 -37.65
   LOCATION L0004804     VOLUME   580336.470 3722810.560 -37.53
   LOCATION L0004805     VOLUME   580348.662 3722810.657 -37.51
   LOCATION L0004806     VOLUME   580360.853 3722810.754 -37.49
   LOCATION L0004807     VOLUME   580373.045 3722810.851 -37.49
   LOCATION L0004808     VOLUME   580385.236 3722810.947 -37.49
   LOCATION L0004809     VOLUME   580397.428 3722811.044 -37.41
   LOCATION L0004810     VOLUME   580409.620 3722811.141 -37.26
   LOCATION L0004811     VOLUME   580421.811 3722811.238 -37.12
   LOCATION L0004812     VOLUME   580434.003 3722811.335 -37.02
   LOCATION L0004813     VOLUME   580446.195 3722811.432 -36.92
   LOCATION L0004814     VOLUME   580458.386 3722811.529 -36.88
   LOCATION L0004815     VOLUME   580470.578 3722811.626 -36.88
   LOCATION L0004816     VOLUME   580482.769 3722811.723 -36.88
   LOCATION L0004817     VOLUME   580494.961 3722811.820 -36.88
   LOCATION L0004818     VOLUME   580507.153 3722811.917 -36.88
   LOCATION L0004819     VOLUME   580519.344 3722812.014 -36.97
   LOCATION L0004820     VOLUME   580531.536 3722812.111 -37.09
   LOCATION L0004821     VOLUME   580543.727 3722812.208 -37.19
   LOCATION L0004822     VOLUME   580555.919 3722812.305 -37.19
   LOCATION L0004823     VOLUME   580568.111 3722812.402 -37.19
** End of LINE VOLUME Source ID = RDAIRE
   LOCATION IDLING1      POINT      579805.150  3723587.850      -35.970
** DESCRSRC Truck Idling at LW-1A
   LOCATION IDLING2      POINT      579874.040  3723475.220      -36.230
** DESCRSRC Truck Idling at LW-1B
   LOCATION IDLING3      POINT      579883.560  3723455.580      -36.270
```

```
** DESCRSRC Truck Idling at LW-2
   LOCATION IDLING4      POINT      579760.060  3723570.450      -35.970
** DESCRSRC Truck Idling at LW-3A
   LOCATION IDLING5      POINT      579788.530  3723421.660      -36.120
** DESCRSRC Truck Idling at LW-3B
   LOCATION IDLING6      POINT      579808.320  3723334.150      -35.850
** DESCRSRC Truck Idling at LW-4
** Source Parameters **
** LINE VOLUME Source ID = RDONW
   SRCPARAM L0004227     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004228     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004229     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004230     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004231     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004232     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004233     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004234     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004235     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004236     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004237     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004238     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004239     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004240     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004241     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004242     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004243     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004244     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004245     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004246     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004247     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004248     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004249     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004250     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004251     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004252     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004253     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004254     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004255     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004256     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004257     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004258     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004259     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004260     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004261     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004262     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004263     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004264     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004265     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004266     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004267     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004268     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004269     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004270     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004271     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004272     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004273     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004274     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004275     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004276     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004277     0.0000004744      0.00      1.70      0.85
```

```
SRCPARAM L0004278     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004279     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004280     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004281     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004282     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004283     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004284     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004285     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004286     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004287     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004288     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004289     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004290     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004291     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004292     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004293     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004294     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004295     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004296     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004297     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004298     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004299     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004300     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004301     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004302     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004303     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004304     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004305     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004306     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004307     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004308     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004309     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004310     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004311     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004312     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004313     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004314     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004315     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004316     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004317     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004318     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004319     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004320     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004321     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004322     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004323     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004324     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004325     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004326     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004327     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004328     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004329     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004330     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004331     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004332     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004333     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004334     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004335     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004336     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004337     0.0000004744      0.00      1.70      0.85
```

```
SRCPARAM L0004338     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004339     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004340     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004341     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004342     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004343     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004344     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004345     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004346     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004347     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004348     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004349     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004350     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004351     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004352     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004353     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004354     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004355     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004356     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004357     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004358     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004359     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004360     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004361     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004362     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004363     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004364     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004365     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004366     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004367     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004368     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004369     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004370     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004371     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004372     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004373     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004374     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004375     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004376     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004377     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004378     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004379     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004380     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004381     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004382     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004383     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004384     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004385     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004386     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004387     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004388     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004389     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004390     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004391     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004392     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004393     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004394     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004395     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004396     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004397     0.0000004744      0.00      1.70      0.85
```

```
SRCPARAM L0004398     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004399     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004400     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004401     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004402     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004403     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004404     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004405     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004406     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004407     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004408     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004409     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004410     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004411     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004412     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004413     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004414     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004415     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004416     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004417     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004418     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004419     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004420     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004421     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004422     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004423     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004424     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004425     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004426     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004427     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004428     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004429     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004430     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004431     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004432     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004433     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004434     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004435     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004436     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004437     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004438     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004439     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004440     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004441     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004442     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004443     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004444     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004445     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004446     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004447     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004448     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004449     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004450     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004451     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004452     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004453     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004454     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004455     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004456     0.0000004744      0.00      1.70      0.85
SRCPARAM L0004457     0.0000004744      0.00      1.70      0.85
```

```
   SRCPARAM L0004458     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004459     0.0000004744      0.00      1.70      0.85
   SRCPARAM L0004460     0.0000004744      0.00      1.70      0.85
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = RDONE
   SRCPARAM L0004461     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004462     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004463     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004464     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004465     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004466     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004467     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004468     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004469     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004470     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004471     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004472     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004473     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004474     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004475     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004476     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004477     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004478     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004479     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004480     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004481     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004482     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004483     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004484     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004485     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004486     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004487     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004488     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004489     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004490     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004491     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004492     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004493     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004494     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004495     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004496     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004497     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004498     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004499     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004500     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004501     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004502     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004503     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004504     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004505     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004506     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004507     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004508     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004509     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004510     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004511     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004512     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004513     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004514     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004515     0.0000004745      0.00      1.70      0.85
```

```
SRCPARAM L0004516     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004517     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004518     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004519     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004520     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004521     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004522     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004523     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004524     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004525     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004526     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004527     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004528     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004529     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004530     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004531     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004532     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004533     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004534     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004535     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004536     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004537     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004538     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004539     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004540     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004541     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004542     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004543     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004544     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004545     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004546     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004547     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004548     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004549     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004550     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004551     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004552     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004553     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004554     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004555     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004556     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004557     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004558     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004559     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004560     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004561     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004562     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004563     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004564     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004565     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004566     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004567     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004568     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004569     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004570     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004571     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004572     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004573     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004574     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004575     0.0000004745      0.00      1.70      0.85
```

```
SRCPARAM L0004576     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004577     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004578     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004579     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004580     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004581     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004582     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004583     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004584     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004585     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004586     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004587     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004588     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004589     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004590     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004591     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004592     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004593     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004594     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004595     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004596     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004597     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004598     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004599     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004600     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004601     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004602     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004603     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004604     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004605     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004606     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004607     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004608     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004609     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004610     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004611     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004612     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004613     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004614     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004615     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004616     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004617     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004618     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004619     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004620     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004621     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004622     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004623     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004624     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004625     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004626     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004627     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004628     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004629     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004630     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004631     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004632     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004633     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004634     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004635     0.0000004745      0.00      1.70      0.85
```

```
SRCPARAM L0004636     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004637     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004638     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004639     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004640     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004641     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004642     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004643     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004644     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004645     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004646     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004647     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004648     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004649     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004650     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004651     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004652     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004653     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004654     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004655     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004656     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004657     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004658     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004659     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004660     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004661     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004662     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004663     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004664     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004665     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004666     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004667     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004668     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004669     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004670     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004671     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004672     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004673     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004674     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004675     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004676     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004677     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004678     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004679     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004680     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004681     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004682     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004683     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004684     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004685     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004686     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004687     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004688     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004689     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004690     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004691     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004692     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004693     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004694     0.0000004745      0.00      1.70      0.85
SRCPARAM L0004695     0.0000004745      0.00      1.70      0.85
```

```
   SRCPARAM L0004696     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004697     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004698     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004699     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004700     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004701     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004702     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004703     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004704     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004705     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004706     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004707     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004708     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004709     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004710     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004711     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004712     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004713     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004714     0.0000004745      0.00      1.70      0.85
   SRCPARAM L0004715     0.0000004745      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRW
   SRCPARAM L0004716     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004717     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004718     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004719     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004720     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004721     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004722     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004723     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004724     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004725     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004726     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004727     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004728     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004729     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004730     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004731     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004732     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004733     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004734     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004735     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004736     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004737     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004738     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004739     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004740     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004741     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004742     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004743     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004744     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004745     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004746     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004747     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004748     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004749     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004750     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004751     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004752     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004753     0.0000005309      0.00      5.67      0.85
```

```
   SRCPARAM L0004754     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004755     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004756     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004757     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004758     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004759     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004760     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004761     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004762     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004763     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004764     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004765     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004766     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004767     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004768     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004769     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004770     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004771     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004772     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004773     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004774     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004775     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004776     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004777     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004778     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004779     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004780     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004781     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004782     0.0000005309      0.00      5.67      0.85
   SRCPARAM L0004783     0.0000005309      0.00      5.67      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = RDAIRE
   SRCPARAM L0004784     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004785     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004786     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004787     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004788     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004789     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004790     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004791     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004792     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004793     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004794     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004795     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004796     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004797     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004798     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004799     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004800     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004801     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004802     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004803     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004804     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004805     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004806     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004807     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004808     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004809     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004810     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004811     0.00000211      0.00      5.67      0.85
```

```
   SRCPARAM L0004812     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004813     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004814     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004815     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004816     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004817     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004818     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004819     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004820     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004821     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004822     0.00000211      0.00      5.67      0.85
   SRCPARAM L0004823     0.00000211      0.00      5.67      0.85
** ------------------------------------------------------------------
   SRCPARAM IDLING1      0.0000173     3.840   366.000        50       0.1
   SRCPARAM IDLING2      0.0000173     3.840   366.000        50       0.1
   SRCPARAM IDLING3      0.0000173     3.840   366.000        50       0.1
   SRCPARAM IDLING4      0.0000173     3.840   366.000        50       0.1
   SRCPARAM IDLING5      0.0000173     3.840   366.000        50       0.1
   SRCPARAM IDLING6      0.0000173     3.840   366.000        50       0.1

** Building Downwash **
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING1         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING2         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING3         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4          0.00     0.00     0.00    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94     0.00
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING4         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING5         14.94    14.94    14.94    14.94    14.94    14.94

   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
   BUILDHGT IDLING6         14.94    14.94    14.94    14.94    14.94    14.94
```

BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDHGT IDLING6	14.94	14.94	14.94	14.94	14.94	14.94
BUILDWID IDLING1	110.05	125.30	136.75	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING1	0.00	0.00	0.00	138.75	139.85	136.71
BUILDWID IDLING1	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING1	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	99.31	97.41	92.56	84.90	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING2	114.62	124.05	133.42	138.75	139.85	136.71
BUILDWID IDLING2	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING2	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING3	99.31	97.41	92.56	84.90	74.65	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	101.90
BUILDWID IDLING3	114.62	124.05	133.42	138.75	236.70	235.52
BUILDWID IDLING3	235.02	228.26	214.76	201.15	181.42	99.39
BUILDWID IDLING3	86.46	70.91	53.20	67.65	86.09	98.18
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	0.00	0.00	0.00	136.59	131.11	121.66
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING4	110.05	125.30	136.75	144.03	146.95	0.00
BUILDWID IDLING4	133.41	126.74	118.94	115.88	109.29	99.39
BUILDWID IDLING4	86.46	92.38	72.81	71.83	71.93	91.46
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	92.06	72.81	87.10	94.07	98.18
BUILDWID IDLING5	99.31	125.30	136.75	144.03	146.95	145.39
BUILDWID IDLING5	146.45	144.22	91.25	96.68	99.17	98.64
BUILDWID IDLING5	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDWID IDLING6	99.31	97.41	92.56	84.90	74.65	62.14
BUILDWID IDLING6	72.33	83.05	91.25	96.68	99.17	98.64
BUILDWID IDLING6	95.12	88.71	79.61	87.10	94.07	98.18
BUILDLEN IDLING1	136.59	131.11	121.66	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING1	0.00	0.00	0.00	86.46	70.91	53.20
BUILDLEN IDLING1	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING1	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	96.68	99.17	98.64	95.12	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN IDLING2	115.88	109.29	99.39	86.46	70.91	53.20
BUILDLEN IDLING2	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN IDLING2	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN IDLING3	96.68	99.17	98.64	95.12	88.71	55.76

BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	118.94
BUILDLEN	IDLING3	115.88	109.29	99.39	86.46	92.38	55.76
BUILDLEN	IDLING3	82.18	117.37	148.99	176.09	198.02	133.42
BUILDLEN	IDLING3	138.75	139.85	136.71	133.41	126.74	91.25
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	0.00	0.00	0.00	110.05	125.30	136.75
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING4	136.59	131.11	121.66	108.51	92.06	0.00
BUILDLEN	IDLING4	67.65	86.09	101.90	114.62	124.05	133.42
BUILDLEN	IDLING4	138.75	236.70	145.39	146.45	144.22	142.10
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	146.95	145.39	72.33	83.05	91.25
BUILDLEN	IDLING5	96.68	131.11	121.66	108.51	92.06	72.81
BUILDLEN	IDLING5	71.83	71.93	98.18	99.31	97.41	92.56
BUILDLEN	IDLING5	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
BUILDLEN	IDLING6	96.68	99.17	98.64	95.12	88.71	79.61
BUILDLEN	IDLING6	87.10	94.07	98.18	99.31	97.41	92.56
BUILDLEN	IDLING6	84.90	74.65	62.14	72.33	83.05	91.25
XBADJ	IDLING1	-166.84	-164.57	-157.29	-48.98	-27.99	-6.15
XBADJ	IDLING1	-0.37	2.37	5.04	7.56	9.65	7.73
XBADJ	IDLING1	5.58	3.26	0.85	-1.60	-4.00	-6.47
XBADJ	IDLING1	0.00	0.00	0.00	-37.47	-42.91	-47.05
XBADJ	IDLING1	-67.28	-88.46	-106.94	-122.17	-133.70	-141.16
XBADJ	IDLING1	-144.33	-143.11	-137.55	-131.81	-122.74	-112.47
XBADJ	IDLING2	-159.04	-162.04	-160.12	-153.33	-8.37	-9.50
XBADJ	IDLING2	-26.58	-45.91	-63.85	-79.85	-93.61	-108.24
XBADJ	IDLING2	-119.59	-127.30	-131.14	-131.00	-126.88	-119.10
XBADJ	IDLING2	-114.11	-105.66	-93.99	-79.47	-62.54	-43.70
XBADJ	IDLING2	-41.07	-40.17	-38.05	-34.77	-30.44	-25.18
XBADJ	IDLING2	-19.16	-12.55	-5.57	-2.41	0.14	-151.21
XBADJ	IDLING3	-141.35	-146.84	-147.87	-144.40	-136.55	-10.48
XBADJ	IDLING3	-28.81	-51.88	-73.37	-92.63	-109.27	-126.31
XBADJ	IDLING3	-139.50	-148.46	-152.91	-152.71	-147.87	-138.74
XBADJ	IDLING3	-131.80	-120.86	-106.24	-88.40	-67.87	-45.28
XBADJ	IDLING3	-53.37	-65.49	-75.62	-83.45	-88.75	-7.12
XBADJ	IDLING3	0.76	8.61	16.20	19.30	21.13	-131.57
XBADJ	IDLING4	-141.87	-132.79	-119.68	-102.93	-83.05	0.00
XBADJ	IDLING4	0.00	0.00	0.00	-4.55	-1.97	0.67
XBADJ	IDLING4	28.94	18.92	8.14	10.24	11.91	8.73
XBADJ	IDLING4	5.28	1.68	-1.98	-5.58	-9.00	0.00
XBADJ	IDLING4	-115.61	-135.88	-152.03	-163.56	-170.12	-171.51
XBADJ	IDLING4	-167.69	-255.61	-153.54	-156.69	-156.13	-150.83
XBADJ	IDLING5	-91.45	-2.71	-5.06	-7.25	-9.22	-10.91
XBADJ	IDLING5	-12.27	-13.26	-2.29	5.47	13.06	20.26
XBADJ	IDLING5	26.84	-126.48	-134.95	28.73	17.84	6.40
XBADJ	IDLING5	-5.23	-128.40	-116.60	-101.26	-82.84	-61.90
XBADJ	IDLING5	-59.56	-58.67	-95.89	-104.78	-110.48	-112.82

```
   XBADJ    IDLING5       -111.74  -107.26   -99.53  -101.06  -100.89   -97.65

   XBADJ    IDLING6         -8.70    -7.00    -5.09    -3.02    -0.86     1.33
   XBADJ    IDLING6         -6.03   -14.27   -22.08   -29.21   -35.46   -40.63
   XBADJ    IDLING6        -44.57   -47.15   -48.30   -60.27   -71.78   -81.11
   XBADJ    IDLING6        -87.97   -92.17   -93.56   -92.11   -87.86   -80.94
   XBADJ    IDLING6        -81.07   -79.80   -76.10   -70.09   -61.95   -51.93
   XBADJ    IDLING6        -40.33   -27.51   -13.84   -12.06   -11.27   -10.14

   YBADJ    IDLING1         -9.09   -24.26   -38.69   -74.96   -73.19   -69.20
   YBADJ    IDLING1        -65.11   -59.37   -53.00   -42.78   -31.26   -18.79
   YBADJ    IDLING1         -5.75     7.46    20.45    33.46    45.41    55.99
   YBADJ    IDLING1          0.00     0.00     0.00    74.96    73.19    69.20
   YBADJ    IDLING1         65.10    59.37    53.00    42.78    31.26    18.79
   YBADJ    IDLING1          5.75    -7.46   -20.45   -33.46   -45.41   -55.99

   YBADJ    IDLING2         19.79     0.26   -19.27   -38.22    57.37    62.79
   YBADJ    IDLING2         64.29    63.51    59.63    56.17    51.01    44.30
   YBADJ    IDLING2         36.24    27.08    17.10     7.24    -2.87   -12.90
   YBADJ    IDLING2        -22.54   -31.58   -41.53   -50.21   -57.37   -62.79
   YBADJ    IDLING2        -64.29   -63.51   -59.63   -56.17   -51.01   -44.30
   YBADJ    IDLING2        -36.24   -27.08   -17.10    -7.24     2.87    38.71

   YBADJ    IDLING3         32.57    15.93    -1.20   -18.30   -34.84    35.15
   YBADJ    IDLING3         35.20    33.74    31.36    31.23    30.15    56.55
   YBADJ    IDLING3         45.17    32.42    18.68     5.01    -8.84   -22.42
   YBADJ    IDLING3        -35.32   -47.25   -59.59   -70.13   -30.11   -35.15
   YBADJ    IDLING3        -35.20   -33.74   -31.36   -31.23   -30.15   -56.55
   YBADJ    IDLING3        -45.17   -32.42   -18.68    -5.01     8.84    48.23

   YBADJ    IDLING4        -50.48   -60.68   -69.04   -75.30   -79.28     0.00
   YBADJ    IDLING4          0.00     0.00     0.00   -73.58   -67.24   -58.85
   YBADJ    IDLING4         36.56    42.45   -24.25    -0.49    24.91    38.74
   YBADJ    IDLING4         50.48    60.68    69.04    75.30    79.28     0.00
   YBADJ    IDLING4         64.18    50.07    35.60    17.82    -0.51   -18.82
   YBADJ    IDLING4        -36.56   -42.45    24.25     0.49   -24.91   -38.74

   YBADJ    IDLING5        -55.12    16.96    30.01    42.15    53.00    62.25
   YBADJ    IDLING5         66.09    67.45   -52.02   -43.11   -32.88   -21.65
   YBADJ    IDLING5         -9.77    36.81    25.49    26.18    37.05    46.80
   YBADJ    IDLING5         55.12   -16.96   -30.01   -42.15   -53.00   -62.25
   YBADJ    IDLING5        -66.09   -67.45    52.02    43.11    32.88    21.65
   YBADJ    IDLING5          9.77    -2.41   -14.52   -26.18   -37.06   -46.80

   YBADJ    IDLING6        -20.44   -13.24    -5.65     2.12     9.82    17.23
   YBADJ    IDLING6         24.11    30.26    35.48    39.64    42.58    44.24
   YBADJ    IDLING6         44.54    43.50    41.13    37.52    32.76    27.01
   YBADJ    IDLING6         20.44    13.24     5.65    -2.12    -9.82   -17.23
   YBADJ    IDLING6        -24.11   -30.26   -35.49   -39.64   -42.58   -44.24
   YBADJ    IDLING6        -44.54   -43.50   -41.13   -37.52   -32.76   -27.01

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
```

```
RE STARTING
   INCLUDED DPM28All.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.sfc
   PROFFILE ..\ktrm_sfc_pfl\KTRM_V11_trimmed.pfl
   SURFDATA 3104 2017
   UAIRDATA 3190 2017
   PROFBASE -36.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST DPM28ALL.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST DPM28ALL.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL DPM28ALL.AD\PE00GALL.PLT 33
   SUMMFILE DPM28All.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

* MODELING OPTIONS USED: CONC ELEV URBAN ADJ_U*
* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 11 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	RANK	NET ID	DATE(CONC)
580086.00000	3722773.00000	0.01873	-39.01	-39.01	0.00	24-HR	ALL	1ST		22011024
580122.00000	3722774.00000	0.02442	-38.71	-38.71	0.00	24-HR	ALL	1ST		21122124
580172.00000	3722775.00000	0.02293	-38.50	-38.50	0.00	24-HR	ALL	1ST		21122124
580242.00000	3722717.00000	0.01168	-38.40	-38.40	0.00	24-HR	ALL	1ST		21122124
580289.00000	3722738.00000	0.01320	-37.99	-37.99	0.00	24-HR	ALL	1ST		21122124
580337.00000	3722732.00000	0.01184	-37.80	-37.80	0.00	24-HR	ALL	1ST		21122124
579963.00000	3722704.00000	0.00580	-36.08	-36.08	0.00	24-HR	ALL	1ST		19021224
579927.00000	3722644.00000	0.00422	-36.33	-36.33	0.00	24-HR	ALL	1ST		21011024
579519.00000	3722783.00000	0.00533	-36.27	-36.27	0.00	24-HR	ALL	1ST		21120524
579466.00000	3722781.00000	0.00500	-36.27	-36.27	0.00	24-HR	ALL	1ST		21120524
579393.00000	3722779.00000	0.00475	-36.27	-36.27	0.00	24-HR	ALL	1ST		21120524

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

Rincon Consultants, Inc.
777 E Tahquitz Canyon Way
Palm Springs, California 92262
760-203-5120

January 23, 2026
Project No: 21-10929

The Altum Group
44-600 Village Court, Suite 100
Palm Desert, CA 92260

Subject: Responses to Draft Environmental Impact Report Comments for the Coachella Airport Business Park in Coachella, Riverside County, California

Dear Mr. Larson:

This letter provides our expert opinions and conclusions to assist in the responses to comments received during public circulation of the Draft Environmental Impact Report (DEIR) prepared for the Coachella Airport Business Park Project (project). The DEIR was circulated for a 30-day public review period which began on July 21, 2025, and ended on August 20, 2025. The City of Coachella (City) Development Services, Planning Division, received 16 comment letters on the DEIR. This letter focuses only on responses to letters from the United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW). The commenters and the page number on which each comment letter appear are listed below in Table 1.

Table 1 Comment Letters Received

Letter No. and Commenter		Page Nos.
4	Mary Woulfe, United States Fish and Wildlife Service	13 - 16
2	Kim Freeburn, California Department of Fish and Wildlife	76 - 105

The comments and responses follow on the subsequent pages. The comment letters are numbered sequentially and each separate issue raised by the commenter, if more than one, has been assigned a number. The responses to each comment identify first the number of the comment letter, then the number assigned to each issue (Response 4.1, for example, indicates the response is for the first issue raised in Comment Letter 4).

Rincon Consultants (Rincon) has summarized each comment and provided a response. Each response is followed by recommendations regarding how to address the comment for consideration, and the supporting rationale. New text is shown with an <u>underline</u> and replaced or deleted text is shown in ~~strikethrough~~. We recommend confirming the recommended approach with the City before finalizing the responses to comments.

Letter 4

COMMENTER: Mary Woulfe, USFWS

DATE: September 2, 2025

Response 4.1

The commenter summarizes the regulatory role of USFWS with regards to reviewing the project DEIR. This comment does not warrant changes to the DEIR.

Response 4.2

This commenter summarizes the project description. This comment does not warrant changes to the DEIR.

Response 4.3

The commenter notes that black-tailed gnatcatcher (*Polioptila melanura*) was observed within the northern portion of the Study Area. The commenter notes that the DEIR states the black-tailed gnatcatcher is listed as a Covered Species under the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP); however, this species is not currently covered under the CVMSHCP. The DEIR will be revised per this comment. It should be noted that the discussion regarding black-tailed gnatcatcher will remain in DEIR Section 4.4, Biological Resources, p. 4.4-24 under the discussion of "Avian Species," given that potential impacts to nesting birds and common passerine species protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (CFGC), including black-tailed gnatcatcher, could occur if nests are located within the Project Area and/or in the immediate vicinity during construction activities.

The commenter agrees that burrowing owl (*Athene cunicularia*, CVMSHCP-Covered Species, CDFW Species of Special Concern [SSC], and California Endangered Species Act [CESA] Candidate Endangered), crissal thrasher (*Toxostoma crissale*, CVMSHCP-Covered Species), and loggerhead shrike (*Lanius ludovicianus*) have potential to occur within the Study Area. The commenter further states that the presence of sparse vegetation, particularly cover of shrubs, is suitable habitat for ground-nesting birds. Moreover, bare ground or sparse vegetation cover also constitutes suitable nesting habitat for some ground-nesting birds. Therefore, the proposed ground disturbance has the potential to impact nesting birds. The commenter notes that the DEIR does not indicate that focused nesting bird surveys were completed, likely contributing to the lack of nesting bird observations during the field survey. The commenter recommends focused nesting bird surveys, both within and outside of nesting season, to accurately confirm nesting birds presence or absence. The commentor notes that a complete assessment of the biological resources within the project area is required to assess the project's potential impacts to nesting birds, and requests that the DEIR be revised to include a complete assessment of the project's potential impacts to nesting bird habitat, including completion of nesting bird surveys during the appropriate time of year, to determine the extent of nesting birds on the project site.

Pages 23 and 28 of the Biological Resources Assessment (BRA) and page 4.4-24 of the DEIR state that multiple nesting birds and raptors have the potential to nest in shrubs and trees and/or burrow on bare ground throughout and near the Study Area, and that numerous avian nests including verdins (*Auriparus flaviceps*) nesting in the mesquite (*Prosopis glandulosa*) and arrow weed (*Pluchea sericea*) thickets were observed within the Substation development area. The DEIR further states that no special status birds or raptors were observed, with the exception of black-tailed gnatcatcher, but

suitable open habitats, trees, shrubs, and other vegetation provide the micro habitats for these species to occur throughout the project area. These observations further demonstrate that the Study Area is used by nesting birds.

The DEIR also states (page 4.4-24) that vegetation and open areas within and surrounding the project area have the potential to provide refuge cover from predators, perching sites, and favorable conditions for avian nesting that could be affected by the proposed project. The DEIR further states (page 4.4-24) that potential impacts to nesting birds could occur if nests are located on the project area and/or in the immediate vicinity during construction activities. Direct impacts could occur to avian special-status species if active nests are disturbed during vegetation removal or ground disturbing activities. Direct impacts may also occur if active nests are located within close proximity to the project area and are abandoned due to visual and/or acoustic project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Therefore, as stated in the DEIR, impacts to special-status birds and raptors would be potentially significant without mitigation.

The assessment of potential project impacts to nesting birds within the Study Area included in both the BRA and DEIR is adequate because no federally listed threatened or endangered birds were detected within the Study Area; and as prescribed in Mitigation Measure (MM) BIO-1, implementation of a pre-construction nesting bird survey prior to commencement of any vegetation removal or ground disturbance, and establishment of appropriate avoidance buffers if any active nests are detected during the survey until a qualified biologist has determined that nestlings have fledged or the nest is no longer active, are sufficient in order to avoid/minimize impacts to nesting birds.

Additionally, the commenter notes that MM BIO-1 in the DEIR states that project-related activities shall not occur during the bird breeding season, from January 15 through August 31, unless pre-construction surveys are conducted within seven days prior to ground disturbance. USFWS generally considers peak nesting season to be February 1 through September 15. The commenter also recommends that MM BIO-1 be revised to require nesting bird surveys throughout construction, both within and outside of nesting season, to account for variation in the timing of the nesting bird season and avoid any potential adverse effects to nesting.

Recommendations

It is typically not necessary to conduct nesting bird surveys outside of the bird nesting season, as birds are not typically nesting during that time of year. It is not appropriate to extend the bird breeding season date into September as USFWS suggests considering the earlier end of nesting due to the desert heat and other extreme weather conditions. We suggest keeping the start of the breeding season as January 15 because raptors are known to nest as early as January. Rincon recommends modifying and adding language to MM BIO-1 with some of CDFW's suggested MM BIO-1 as described below in Response 14.11 in order to clarify and amplify this MM and facilitate it's adequacy in protecting nesting birds with implementation. The recommended updated MM BIO-1 Nesting Bird Avoidance/Pre-construction Surveys is as follows:

"Prior to issuance of the Project's grading permit, the following measures shall be implemented:

To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within <u>three</u>~~seven~~ days prior to <u>vegetation removal or</u> ground disturbance.

A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, will conduct the preconstruction nesting bird survey within threeseven days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist will make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity will not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. The qualified biologist has the authority to stop work if nesting pairs exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey will be re-initiated for areas that still contain potential nesting habitat. No parking, storage of materials, or construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed, and the young have fledged the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds."

Response 4.4

The commenter notes that the BRA states that burrowing owls or burrows were not observed during the field survey, although the California Natural Diversity Database (CNDDB) indicates that the species has previously been observed within five miles of the project site. The USFWS states that due to the presence of disturbed habitat within the project site, the proximity of the Whitewater River channel and berms, and the potential for Coachella Valley round-tailed ground squirrels to occur and create burrows within the project area, the project site is likely suitable habitat for burrowing owl, and burrowing owls have the potential to inhabit the site. The commenter notes that the DEIR does not indicate completion of focused burrowing owl surveys. The commenter recommends that the DEIR include an accurate assessment of the project's potential impacts to burrowing owl, including results from focused surveys during the breeding season and non-breeding season following the protocols outlines in CDFW's 2012 Staff Report on Burrowing Owl Mitigation.

Additionally, the commenter recommends that MM BIO-2 be revised to require burrowing owl pre-construction surveys by a qualified biologist in accordance with the protocols described in the Staff Report on Burrowing Owl Mitigation. The commenter also recommends that MM BIO-2 be revised to include burrowing owl surveys throughout the construction period. The commenter also recommends that MM BIO-2 be revised to require that, if the pre-construction surveys confirm burrowing owl presence, the project applicant shall submit a Burrowing Owl Plan that includes avoidance, minimization, and mitigation measures to the USFWS and CDFW (collectively, Wildlife Agencies) for review and approval prior to beginning project activities. The commenter notes that the project proponent should coordinate with the Wildlife Agencies on the appropriate avoidance, minimization, and mitigation measures to be included in the Burrowing Owl Plan. The commenter further notes that per Section 4.4 and Section 8.5.2 of the CVMSHCP, relocation of burrowing owls must follow protocols accepted by the Wildlife Agencies, and active relocation and eviction/passive relocation must be determined through coordination with the Wildlife Agencies for all Covered Species. The commenter

further requests that MM BIO-2 be revised to state that if avoidance of burrowing owl is not possible, the project applicant shall coordinate with the Wildlife Agencies on a burrowing owl relocation plan, and requests that the relocation plan be submitted to the Wildlife Agencies for review and approval.

Recommendations

Section 4.4 of the CVMSHCP requires burrowing owl surveys in CVMSHCP Conservation Areas. The project site is outside of a Conservation Area; therefore, focused burrowing owl surveys are not required by the CVMSHCP for the project. The biological resources field survey found no burrowing owl or their sign, and no burrows on the Project site. The commenter provides no evidence that the species occupies the site. The site is not located in a CVMSHCP Conservation Area. MM BIO-2 requires pre-construction surveys for the species. If the species were to occur on the site, the required pre-construction surveys would identify them, and cause Project activities, including grubbing prior to grading, to stop until such time as a mitigation program, including a relocation if needed, was reviewed and implemented by CDFW, thereby eliminating the potential for Take of the species on the Project site. The City is complying with the requirements of both the CVMSHCP and CESA by requiring MM BIO-2, and no change is required to assure protection of the species on the site. In order to provide clarity and direction, MM BIO-2 has been modified to explicitly cite the CDFW Staff Report as the correct protocol, and to prohibit Project activities until mitigation or avoidance measures are implemented, should the species be identified on site.

Therefore, MM BIO-2 will be revised as follows:

"BIO-2 Burrowing Owl Pre-construction Survey

In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, pre-construction (i.e., Take Avoidance) burrowing owl surveys shall ~~will~~ be conducted by a qualified biologist no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the CDFW Staff Report on Burrowing Owl Mitigation (2012 or most recent version). Pre-construction surveys shall be conducted within and surrounding 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If a burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow (restricted area). The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to the Wildlife Agencies for approval and must be approved prior to commencing or re-commencing Project activities within the restricted area~~the burrowing owl shall be relocated pursuant to accepted CDFW protocols~~. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of 30 days or more. ~~If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season (January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to nearest suitable habitat and presence of burrow) in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January).~~

Response 4.5

The commenter notes that bat species were not observed during the field survey, but agrees with the BRA's conclusion that there is moderate potential for western yellow bat (*Lasiurus xanthinus*,

CVMSHCP-Covered Species) to occur on the project site due to the presence of the California fan palm oasis north of the project site and the riparian woodland and scrub habitats within the northern portion of the Study Area. The commenter notes that the DEIR does not indicate completion of focused bat surveys. Additionally, the commenter states that the DEIR does not include an assessment of bat roosting habitat in the bridge on Airport Boulevard, adjacent to the southern portion of the project site and within the Study Area. The commenter recommends that the DEIR be revised to include a complete assessment of the project's potential impacts to bat habitat, including completion of focused bat surveys following accepted survey methods on the project site and the Airport Boulevard bridge crossing over the Whitewater River channel.

The CVMSHCP does not require focused bat surveys. MM BIO-3 requires a special-status bat species emergence survey if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey would be conducted in areas of suitable roosting habitat, which include the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. MM BIO-3 also requires that any special-status bat species observed during the maternity roosting season within or adjacent to the project area would be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction.

Additionally, the commenter recommends that MM BIO-3 is revised to include detailed information regarding survey methods, including the number of days of acoustic monitoring, emergence roost counts, and number of roost count observers.

The commenter also recommends that MM BIO-3 be revised to require a minimum of two surveys during the maternity season, one during spring and one during summer. Further, the commenter recommends that MM BIO-3 also be revised to require a winter survey and migration period survey, and to require that, if bats are determined to be present at the project site, avoidance and buffers are established at all times of year, regardless of maternity roosting season.

The commenter recommends that MM BIO-3 be revised to require that, if bats are determined to be present at the project site, avoidance and buffers are established at all times of year, regardless of maternity roosting season.

Recommendations

Due to the fact that the CVMSHCP does not require focused bat surveys, a special-status bat species emergence survey is sufficient. Performance standards are included in the MM as written, and further detail is not required. MM BIO-3 as written would ensure avoidance of special-status bat species during the maternity roosting season with establishment of a 100-foot to 300-foot buffer should any special-status bat species be detected. However, MM BIO-3 will be slightly revised to include a mention of the Airport Boulevard bridge since it is included as an area of suitable roosting habitat, as follows:

"BIO-3 Emergence Bat Survey

A special-status bat species emergence survey shall be conducted if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey shall be conducted in areas of suitable roosting habitat, including the Airport Boulevard bridge, during the maternity season to document the presence or absence of special-status bat species maternal roosting habitat. The emergence survey shall be conducted 30 minutes before sunset and continue for up to two hours after sunset. Any special-status bat species observed during the survey within or adjacent to the Project Area shall be avoided and provided a minimum

buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is recommended) prior to the commencement of construction"

Response 4.6

The commenter thanks the City for the opportunity to provide comments for the DEIR. This comment does not warrant changes to the DEIR.

Letter 14

COMMENTER: Kim Freeburn, CDFW

DATE: September 4, 2025

Response 14.1

This comment includes a general introduction and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

Response 14.2

This comment discusses CDFW's role as California's Trustee Agency and a Responsible Agency under CEQA. Comment noted that CDFW is submitting comments as a Responsible Agency under CEQA and may need to exercise regulatory authority as provided by the Fish and Game Code. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Response 14.3

This comment includes a general summary of the proposed Project, its objectives, location, and timeframe and does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. Therefore, no further response is warranted.

Response 14.4

The commenter asserts that the DEIR has not adequately identified and disclosed the Project direct, indirect, and cumulative impacts on biological resources. The commenter also concludes that the DEIR lacks sufficient information to facilitate a meaningful review by CDFW. The commenter requests that additional information and analyses be added to a revised DEIR.

The comment is overly broad and cannot be addressed in detail. Responses to individual issues raised by the commenter are addressed below in Responses 14.5 through 14.25.

Response 14.5

The commenter expresses a concern that the assessment of the existing environmental setting has not been adequately analyzed in the DEIR. The commenter states that the DEIR lacks a complete assessment of biological resources associated with nesting birds, burrowing owls, and bats within the Project site and surrounding areas.

The assessment of the existing environmental setting associated with the Project site is provided in Section 4.4.1 on pages 4.4-1 through 4.4-16 of the DEIR. The assessment is adequate as required by CEQA. These issues are discussed as individual comments further below.

Response 14.6

The commenter states that CDFW is concerned that the Mitigation Measures proposed in the DEIR are not adequate to avoid or reduce impacts to biological resources to below a level of significance. The comment is overly broad. Individual issues are discussed below in Responses 14.7 through 14.25.

Response 14.7

The commenter states that the DEIR and its supporting documents lack an adequate assessment of biological resources that may occupy the adjacent Whitewater River and the Airport Boulevard bridge. Specifically, the commenter states that the DEIR lacks 1) an analysis of the potential for the Airport Boulevard bridge to support nesting birds and bats, 2) the results of focused burrowing owl surveys within the project site and adjacent Whitewater River, 3) adequate analysis of the potential direct and indirect impacts of the project associated with lighting, and 4) adequate analysis of the potential direct and indirect impacts of the project associated with noise on wildlife using the Whitewater River, including the Airport Boulevard bridge, and the vacant, vegetated parcel to the north.

The DEIR contains an assessment of the Project's Study Area (Project site and a 300-foot surrounding buffer) that includes much of the width of the Whitewater River/Coachella Valley Stormwater Channel and the Airport Boulevard bridge. The Airport Boulevard bridge is outside of the Project site and would not be impacted by the Project. As stated on page 4.4-24 of the DEIR, direct impacts may occur if active nests are located near the Project site and are abandoned due to visual and/or acoustic project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or harassment that might reduce nesting success. Additionally, as stated on page 4.4-25 of the DEIR, direct impacts to western yellow bat may occur if an active roost is located within the California fan palm oasis that occurs just north of the Project area, due to visual and/or acoustic Project-related disturbance. In addition, as discussed in Response 4.5, MM BIO-3 will be slightly revised to include a mention of the Airport Boulevard bridge given that it is included as an area of suitable roosting habitat and is within the Study Area. Therefore, as noted in the Project's BRA and DEIR, these potential impacts would be reduced to less than significant through implementation of MM BIO-1 (Nesting Bird Avoidance/Pre-construction Surveys), MM BIO-3 (Emergence Bat Survey), MM BIO-5 (Worker Environmental Awareness Program), and MM BIO-8 (Standard Construction Best Management Practices).

Additionally, the commenter recommends the DEIR be revised to include the findings of a complete, *recent* inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including Special Species of Concern ("SSC") and California Fully Protected Species. The commenter recommends a biological inventory include a buffer area surrounding the Project including the Whitewater River and Airport Boulevard bridge. The commenter recommends the DEIR be revised to include an analysis of direct, indirect, and cumulative impacts to biological resources, including, but not limited to lighting and noise, and identification of appropriate avoidance, minimization, and Mitigation Measures.

As described in Section 2.5 Literature and Database Review of the BRA, the biological resources within a Study Area, comprising the Project site plus a 300-foot buffer were analyzed, which is standard practice for a biological reconnaissance survey. Figures 2, 4, 5, 6, and 7 of the BRA show that the Study Area included much of the width along the portion of the Whitewater River that is adjacent to the Project site as well as the Airport Boulevard bridge crossing over the Whitewater River. Therefore, the Study Area described in the BRA and DEIR is adequate. These issues are discussed further in the responses to individual comments below.

Recommendations

Project site conditions have not appreciably changed since the time of the field reconnaissance survey. The commenter provides no evidence to suggest any changes or any reason to believe that the inventory is inaccurate as to current conditions on the site, and an updated field reconnaissance survey would not likely result in substantial changes to the BRA's or DEIR's observed species lists, described vegetation communities, presence or absence of potentially jurisdictional waters, or

determination of habitat suitability for special-status species with at least some potential to occur on or adjacent to the Project site. Therefore, no further action is recommended.

Response 14.8

The commenter suggests adding the following Mitigation Measure addressing the assessment of Biological Resources to the DEIR:

"Prior to Project construction activities, a complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas, including the Whitewater River, Airport Boulevard bridge, and the vacant, vegetated area to the north, with the potential to be affected, including California Species of Special Concern (CSSC) and California Fully Protected Species (Fish and Game Code § 3511), will be completed. Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. Focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable are required. Acceptable species-species survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Note that CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to 3 years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, of if surveys are completed during periods of drought."

Recommendations

As noted in Response 14.7, there is a low potential for findings from the July 7, 2023 field reconnaissance survey to appreciably change with an updated reconnaissance survey. Therefore, the addition of the Mitigation Measure suggested above is not warranted.

Response 14.9

The commenter quotes the relevant sections of the Fish and Game Code related to nesting birds, and summarizes Take authorization under the CVMSHCP. The commenter concurs that the Project site and surrounding areas, including the Whitewater River, contain suitable habitat for birds that nest on the ground and in shrubs and trees, as confirmed in the Draft EIR. However, the commenter considers Mitigation Measure BIO-1 to be inadequate in scope and timing to reduce impacts to nesting birds to a level less than significant. The commenter recommends the completion of nesting bird surveys regardless of the time of year to ensure that impacts to nesting birds and their nests and eggs are avoided.

Recommendations

As noted in Section 4.4, Biological Resources, of the DEIR, no state listed threatened or endangered birds were detected within the Study Area.

As discussed in Response 4.3 in response to a similar comment made by the USFWS, Rincon recommends revising MM BIO-1 in order to clarify and amplify this MM and facilitate its adequacy in protecting nesting birds with implementation. This comment is further addressed in Response 14.11 below.

Response 14.10

The commenter states that the DEIR lacks an adequate discussion of the Project's potential direct, indirect, and cumulative impacts to nesting birds located within the Project site and within the adjacent Whitewater River, including the Airport Boulevard bridge, which may provide suitable habitat for cliff swallow (*Petrochelidon pyrrhonota*), and requires additional mitigation.

The impact analysis in Section 4.4.3 of the DEIR contains an analysis of impacts to nesting birds within both the Project site and areas near the Project site, which include both the Whitewater River and the Airport Boulevard bridge. This comment is further addressed in Response 14.11 below.

Response 14.11

The commenter recommends that disturbance of occupied nests of migratory birds and raptors within the Project site and surrounding area be avoided any time birds are nesting on-site. The commenter recommends updates to Mitigation Measure BIO-1 (Nesting Birds).

Recommendations

As discussed in Response 4.3 in response to a similar comment made by the USFWS regarding the scope and timing to reduce impacts to nesting birds, Rincon recommends updating Mitigation Measure BIO-1 with some of the commenter's suggested language in order to clarify and amplify this Mitigation Measure and facilitate its adequacy in protecting nesting birds with implementation. The recommended updated Mitigation Measure BIO-1, Nesting Bird Avoidance/Pre-construction Surveys is as follows:

"Prior to issuance of the Project's grading permit, the following measures shall be implemented:

To avoid disturbance of nesting and special-status bird species protected by the MBTA and CFGC, activities related to the Project, including but not limited to, vegetation removal, ground disturbance, and construction shall not occur during the bird breeding season (January 15 through August 31) unless a pre-construction nesting bird survey is conducted within threeseven days prior to vegetation removal or ground disturbance.

A qualified biologist, who is familiar with the identification of avian species in the Coachella Valley, shall conduct the preconstruction nesting bird survey within threeseven days prior to vegetation removal or ground disturbance to evaluate the presence/absence, location, and status of any active nests on or adjacent to the Project Area. The extent of the survey area surrounding the Project Area shall be determined by the qualified biologist to help ensure that direct and indirect effects to nesting birds are avoided. Pre-construction surveys shall focus on both direct and indirect evidence of nesting, including nest locations and nesting behavior. The qualified biologist shall make every effort to avoid potential nest predation as a result of survey efforts. If an active nest(s) is discovered, a suitable buffer shall be established around the active nests, as determined by the biologist, and construction activity shall not occur within the buffer until the biologist has determined that the nest is no longer active. Buffer size shall consider the species involved and relevant level of tolerance to adjacent activity, the location of the nest relative to proposed activities, and site conditions that naturally buffer the location, such as vegetation screening, topography, etc. Active nests and adequacy of the established buffer distance shall be monitored daily by the qualified biologist until the qualified biologist has determined the young have fledged, the nest is no longer active, or the Project has been completed. No activities shall occur within this nest avoidance buffer until the qualified biologist has confirmed that breeding/nesting is completed and/or the young have fledged the nest and are no longer reliant upon the nest. Encroachment into this buffer shall occur only at the discretion of the qualified biologist, if it is determined that encroachment will not adversely impact the nesting birds. The qualified biologist

has the authority to stop work if nesting birds exhibit signs of disturbance. If construction activities are delayed or paused for more than 14 days during the nesting season, the nest survey shall be re-initiated for areas that contain potential nesting habitat."

Response 14.12

The commenter summarizes the Fish and Game Commission's determination that western burrowing owl warrants protection as a candidate species under CESA, which affords the same protection as threatened and endangered species under CESA, and states if Project activities, including relocation, could result in take, appropriate CESA authorization (i.e., Incidental Take Permit under Fish and Game Code section 2081) should be obtained prior to commencement of Project activities.

The commenter further states that throughout the CVMSHCP area, Permittees must ensure that activities occurring within their jurisdictions do not result in the take, possession, or destruction of burrowing owl individuals, nests, or eggs, and that any such activity is unlawful and would not be a Covered Activity under the CVMSHCP.

The commenter concurs that the Project site and surrounding area including the Whitewater River contain suitable nesting and foraging habitat for burrowing owl.

Recommendations

As noted in Section 4.4, Biological Resources, of the DEIR, Section 4.4 of the CVMSHCP requires burrowing owl surveys in CVMSHCP Conservation Areas. The Project site is outside of a Conservation Area; therefore, focused burrowing owl surveys are not required by the CVMSHCP for the Project. Although the commenter notes that since the time of the field reconnaissance survey (July 7, 2023), and as described in CDFW's comment above, burrowing owl has been listed by the California Fish and Game Code Commission as a candidate species for listing under CESA, the potential listing does not change the provisions of the MSHCP. The City of Coachella will enforce the MSHCP provisions. In addition, there was no sign or burrows onsite during the biological resources field survey. This comment is further addressed in Response 14.13 below.

Response 14.13

The commenter notes the DEIR includes Mitigation Measure BIO-2, which generally aligns with Required Avoidance, Minimization, and Mitigation measures for burrowing owl under the CVMSHCP (Section 4.4). However, the commenter states these measures are outdated and do not ensure that impacts to burrowing owl individuals and their nests and eggs will be avoided.

The biological resource field survey found no burrowing owl or their sign, and no burrows on the Project site. The commenter provides no evidence that the species occupies the site. The site is not located in a CVMSHCP Conservation Area. MM BIO-2 requires pre-construction surveys for the species. If the species were to locate on the site, the required pre-construction surveys would identify them, and cause Project activities, including grubbing prior to grading, to stop until such time as a mitigation program, including a relocation if needed, was reviewed and approved by CDFW, thereby eliminating the potential for Take of the species by the Project. The City is complying with the requirements of both the CVMSHCP and CESA by requiring MM BIO-2, and no change is required to assure protection of the species on the site. In order to provide clarity and direction, MM BIO-2 has been modified to explicitly cite the CDFW Staff Report as the correct protocol, and to prohibit Project activities until mitigation or avoidance measures are implemented, should the species be identified on site.

Recommendations

Based on the comments provided, Rincon recommends that MM BIO-2 be revised as follows:

"BIO-2 Burrowing Owl Pre-construction Survey

In accordance with Section 4.4 Required Avoidance, Minimization, and Mitigation Measures of the CVMSHCP, pre-construction (i.e., Take Avoidance) burrowing owl surveys shall~~will~~ be conducted by a qualified biologist no less than 14 days prior to the start of Project-related activities and within 24 hours prior to ground disturbance, in accordance with the CDFW Staff Report on Burrowing Owl Mitigation (2012 or most recent version). Pre-construction surveys shall be conducted within and surrounding 500 feet of the Project disturbance footprint to identify burrows that could be utilized by burrowing owl. Potentially suitable burrows shall be checked by a qualified biologist to see if they are occupied or not. If the burrow is unoccupied, the burrow shall be made inaccessible to burrowing owl, and the Project may proceed. If a burrow is occupied, Project activities shall be immediately halted within 500 feet of the burrow (restricted area). The qualified biologist shall coordinate with CDFW and USFWS and prepare a Burrowing Owl Avoidance and Monitoring Plan that shall be submitted to the Wildlife Agencies for approval and must be approved prior to commencing or re-commencing Project activities within the restricted area ~~the burrowing owl shall be relocated pursuant to accepted CDFW protocols~~. For ground-disturbing activities, pre-construction surveys should be repeated when there is a pause in construction of 30 days or more." ~~If there are no records for the site, surveys must be conducted to determine, prior to construction, if burrowing owl are present. Active burrows shall be avoided during the burrowing owl breeding season (January 15 to August 31) with an appropriate buffer zone as determined by a qualified biologist. If occupied burrows cannot be avoided, determination of the appropriate method of relocation, such as eviction/passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to nearest suitable habitat and presence of burrow) in coordination with CDFW and the City. Passive relocation may only occur in the non-breeding season (September to January).~~

Response 14.14

The commenter notes the BRA's language describing known roosting habitats of special-status bat species having potential to occur on-site, and concurs that the Airport Boulevard bridge may contain crevice habitat that is suitable roosting habitat for these and other bridge-roosting bat species. The commenter states that the DEIR lacks an assessment of potential roosting habitat for bats associated with the Airport Boulevard bridge, the findings of focused surveys associated with suitable bat roosting habitat, or an analysis and discussion of potential direct and indirect impacts of the Project, appropriate avoidance, minimization, and mitigation measures.

The commenter also suggests the DEIR also include focused surveys for western yellow bat (CVMSHCP-Covered Species, SSC), which has the potential to roost in the grove of fan palms (*Washingtonia* sp.) located just north of the Project site.

As noted on page 4.4-25 of the DEIR, western yellow bat is a covered species under the CVMSHCP, and the CVMSHCP does not require focused bat surveys. Mitigation Measure BIO-3 requires a special-status bat emergence survey if construction activities are to occur within 300 feet of the California fan palm oasis during the bat maternity season (April 1 through August 31). The emergence survey shall be conducted in areas of suitable roosting habitat, which includes the Airport Boulevard bridge, during the maternity season to document the presence of special-status bat species maternal roosting habitat. Mitigation Measure BIO-3 also requires that any special-status bat species observed during the maternity roosting season within or adjacent to the Project area should be avoided and provided a minimum buffer as determined by the qualified biologist (a 100-foot to 300-foot buffer is

recommended) prior to the commencement of construction. Implementation of Mitigation Measure BIO-3 adequately reduces potential impacts to special-status bat species to less than significant levels. Therefore, no revisions to the DEIR are warranted relative to this comment.

Response 14.15

The commenter recommends the DEIR be revised to include an analysis of Project impacts associated with artificial nighttime lighting on bats that may use the grove of fan palms and the Airport Boulevard bridge.

The Project site is located immediately west of SR 86, which produces significant existing light sources from travelers on that roadway. Potential project lighting impacts are described in Section 4.1, Aesthetics, on pages 4.1-22 and 4.1-23 of the DEIR. Specifically, page 4.1-23 of the DEIR states that all light sources in the Project site's parking areas, walkways and on the exterior of proposed buildings would be shielded downwards and use of building materials on the Project site would be required to minimize glare. As such, light spill would not be permitted to occur, and the Project's compliance with City regulations and standards including the Coachella Municipal Code (CMC) Chapters 16.28.150(L), *Improvements and Grading*, and Chapter 17.56.010(J)(2)(e), *Glare from Signs*, and lighting requirements in Chapter 17.60, *Development Standards*, would maintain appropriate and safe lighting levels onsite while minimizing light and glare on adjacent properties. Additionally, pages 4.4-24 and 4.4-25 of the DEIR include a description of potential Project impacts to nesting birds and bats due to visual (which includes lighting) and/or acoustic Project-related disturbance. Mitigation Measure AES-2 of the DEIR requires the construction contractor to locate and aim all construction-related nighttime security lighting away from adjacent uses, including both residential and non-residential areas neighboring the Project site. Additionally, Mitigation Measure BIO-8 requires, among other standard construction Best Management Practices, any construction lighting to be directed toward the work area and away from adjacent habitats. Therefore, no revisions to the DEIR are warranted relative to this comment.

Response 14.16

The commenter considers Mitigation Measure BIO-3 in the DEIR to be inadequate in scope and timing to avoid or reduce impacts to bats to a level less than significant, and recommends updates to the Mitigation Measure.

Recommendations

Please see Response 14-14. Mitigation Measure BIO-3 as written shall facilitate avoidance of special-status bat species during the maternity roosting season with establishment of a 100-foot to 300-foot buffer should any special-status bat species be detected. Additionally, the Project would not directly impact suitable habitat for special-status bat species. As shown on Figure 5 of the BRA and Exhibit 4.4-1 of the DEIR, the California fan palm oasis is located outside and north of the project site and the Airport Boulevard bridge is located outside and southwest of the project site. Therefore, the analysis and proposed MMs in the BRA and DEIR are adequate to reducing impacts to special-status bats to less than significant. No additional actions are recommended.

Response 14.17

The commenter states that the DEIR lacks an analysis of direct, indirect, and cumulative impacts of artificial nighttime lighting, including impacts associated with construction and long-term operations, on biological resources including migratory birds that fly at night, burrowing owls, bats, and other

nocturnal and crepuscular wildlife. The comment further states that the Project's proposed artificial nighttime lighting has the potential to significantly and adversely affect wildlife in vacant areas adjacent to the Project site.

Recommendations

See Response 14.15. Potential direct and indirect Project lighting impacts are described in Section 4.1, Aesthetics, on pages 4.1-22 and 4.1-23 of the DEIR and potential cumulative Project lighting impacts are described on pages 4.1-25 and 4.1-26. Project compliance with City regulations and standards related to artificial nighttime lighting and Mitigation Measures described above as well as in the DEIR would reduce any potential direct, indirect, and/or cumulative artificial nighttime lighting impacts to biological resources to less than significant. No additional analysis or Mitigation Measures are warranted.

Response 14.18

The commenter suggests the City add a new Mitigation Measure to potential artificial light impacts associated with the Project.

See Response 14.15. No additional analysis or Mitigation Measures are warranted.

Response 14.19

The commenter states that construction activities may result in substantial noise through road use, equipment, and other Project-related activities, which may adversely affect wildlife species in several ways as wildlife responses to noise can occur at exposure levels of only 55 to 60 decibels. The commenter further cites several studies that describe how noise can impact wildlife. Refer to Response 14.20, below. This comment does not warrant changes to the DEIR. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Response 14.20

The commenter acknowledges page 4.4-24 of the DEIR indicates that the noise associated with Project construction activities may result in direct impacts to nesting birds located near the Project site. CDFW notes that the Project may result in direct and indirect impacts associated with noise to biological resources occupying the adjacent Whitewater River, the Airport Boulevard bridge, and the vacant, vegetated parcel to the north of the Project area. The commenter states that the DEIR lacks additional analysis discussion of the potential impacts of noise on biological resources in areas surrounding the Project area. CDFW recommends the DEIR be revised to include an analysis of potential impacts to wildlife associated with construction noise and to incorporate appropriate avoidance, minimizations, and Mitigation Measures. Specifically, the commenter recommends the inclusion of Mitigation Measure BIO-[C]: Construction Noise, which would require the City to ensure the use of noise suppression devices for generators for temporary use in emergencies and to restrict the use of construction equipment to hours least likely to disrupt wildlife (e.g., not at night or in the early morning).

Recommendations

Pages 4.4-24 and 4.4-25 of the DEIR state that direct impacts may occur if active nests are located near the Project site and are abandoned due to visual and/or acoustic Project-related actions such as construction noise, lighting, and fugitive dust. These impacts could lead to individual mortality and/or

harassment that might reduce nesting success. Therefore, impacts to special-status birds and raptors would be potentially significant without mitigation. Additionally, page 4.4-25 of the DEIR states that direct impacts to western yellow bat may occur if an active roost is located within the California fan palm oasis that occurs just north of the Project site, due to visual and/or acoustic Project-related disturbance. Impacts to special-status bat species would be considered significant without mitigation. Section 4.13 Noise on pages 4.13-1 through 4.13-28 of the DEIR contains an analysis of potential noise impacts associated with the Project and Mitigation Measures that would reduce Project noise impacts to less than significant levels. Cumulatively, implementation of the revised Mitigation Measure BIO-1 and Mitigation Measure BIO-2 described above, the rest of the Mitigation Measures in Section 4.4, Biological Resources, of the DEIR, and the noise Mitigation Measures described within Section 4.13 of the DEIR would reduce noise impacts associated with the Project to biological resources to less than significant levels. Therefore, the existing analysis in the DEIR, the revised Mitigation Measure BIO-1 and Mitigation Measure BIO-2 described above, the rest of the Mitigation Measures in Section 4.4, and the Mitigation Measures in Section 4.13 of the DEIR are adequate to mitigate noise impacts to biological resources in accordance with CEQA. No additional analysis or Mitigation Measures, including Mitigation Measure BIO-[C] as proposed by the commenter, are warranted.

Response 14.21

The commenter lists a number of impacts to biological resources associated with cannabis cultivation, including pesticides, fertilizers/imported soils, water pollution, groundwater depletion, vegetation clearing, construction and other development in floodplains, fencing, roads, noise, artificial light, dams and stream crossings, water diversions, and pond construction, as applicable to the project. CDFW recommends that the DEIR includes an analysis of cannabis-specific impacts to biological resources that may result from Project activities. As referenced in Section 2.5.1 of the DEIR, the Project does not include or propose Commercial or Retail Cannabis uses. The Project includes several entitlement applications, of which include a Change of Zone from Heavy Industrial (M-H) (Chapter 17.32 of the CMC) to Manufacturing Service Zone (M-S) (Chapter 17.30) with an Industrial Business Park Overlay (IPOZ) (Chapter 17.46). The M-S zone prohibits Commercial and Retail Cannabis Operations; however, the IPOZ does authorize cannabis uses, with the approval of a Conditional Use Permit (CUP) (Section 17.46.023.A(1)), which states as follows: "Cannabis Cultivation, processing, testing, manufacturing, wholesale distribution and/or retail sale (including microbusinesses), subject to the regulatory requirements of Chapters 5.68 and 5.69 of the CMC.

The implementation and operations of a Conditionally Approved Cannabis operation is required to comply with the State and Local regulatory requirements that would avoid impacts to biological resources.

Public Resources Code (PRC) §1602 prohibits the diversion or obstruction of any bed, channel, or bank of, any river, stream or lake

1) PRC §5650 prohibits discharge of cannabis irrigation water into any Waters of the State
2) PRC §5652 prohibits disposal of cannabis waste near any body of water
3) Public Resources Code (PRC) §12029(b) establishes a watershed enforcement program

In addition to mandatory State regulations associated with Commercial or Retail Cannabis uses local regulations would include the following standard regulatory requirements preventing impacts to surface and groundwater, on-site native vegetation:

1) Cannabis waste material shall be handled separate of solid waste collection services (trash, recyclable, organics) unless alternative disposal method approved by the State Department of Cannabis Control (DCC)
2) Cannabis waste material shall be housed in a locking enclosure that is not accessible to unauthorized, individuals including the public.
3) Installation of a backflow device on all common-area buildings and at each irrigation water connection shall be required in order to prevent groundwater contamination. The backflow device must be in compliance with City of standards and specifications.

In addition to the aforementioned environmental impacts, the commenter lists additional impacts that are not applicable to the Project.

1) Fencing: The Project does not propose fencing that would obstruct or divert any river, stream, lake, or other body of water.
2) Roads: The Project would construct, and dedicate public Rights-of-Way, in accordance with the City's road standards. The Project would not construct any roads that obstructs or diverts any river, stream, lake, or other body of water.
3) The Project would not create sources of artificial lighting creating impacts to wildlife or wildlife corridors. Refer to Section 4.1 of the DEIR for a more detailed discussion of lighting impacts.
4) The Project is not located near any dams, stream crossing, or ponds. As such, no impact from any potential Retail or Commercial cannabis operations would occur. Refer to Section 4.4 of the DEIR for a more detailed discussion of impacts to wetlands or riparian features.

No additional analysis or Mitigation Measures are warranted.

Response 14.22

The commenter states the DEIR lacks a discussion of whether the Project's cultivation activities will involve pesticides such as fungicides, herbicides, insecticides, and rodenticides. Because of the potential for Project activities to involve the use of pesticides in cannabis cultivation and other cannabis-related activities, the commenter requests the addition of a mitigation measure specifically related to pesticides.

As referenced in Response 14.21, the Project does not propose any Retail or Commercial Cannabis use. In the event that a future Commercial Cannabis operation is approved, pursuant to a Condition Use Permit, a Cannabis Cultivator license would be required from the Department of Cannabis Control (DCC). Pursuant to Business and Professions Code (BPC) §26060(c), the DCC have developed guidelines and regulations for the use of pesticides in the cultivation of cannabis and residue in harvested cannabis.

In April 2025, the DCC adopted the Medicinal & Adult Use Cannabis Regulations which includes Article 5, §15719 requiring residual pesticide testing for all cultivated cannabis products. In addition, the Department of Pesticide Regulation requires that the application of pesticides or other pest control in connection with the indoor, outdoor, nursery, specialty cottage, or mixed-light cultivation of cannabis complies with Division 6, §11401 et. al of the Food and Agricultural Code and its implementing regulations.

Any future Cannabis Cultivation use shall be licensed by the State in order to operate and would be subject to the aforementioned regulatory requirements. As such, no specific mitigation measure is required and compliance with these requirements ensures that no impacts would occur from the use

of pesticides in conjunction with cannabis operations. No additional analysis or Mitigation Measures are warranted.

Response 14.23

The commenter notes that cannabis cultivation operations often use artificial lighting or "mixed-light" techniques in greenhouse structures and indoor operations to increase yields, and that they also employ exterior lighting for security. The commentor then describes common impacts associated with cannabis operations and states the DEIR does not specify whether artificial light will be used either indoors or outdoors for cannabis cultivation or whether building design will allow indoor light to escape. The commentor then suggests the DEIR be revised to include an analysis of cannabis-specific impacts of artificial light on biological resources and MM BIO-[B]: Artificial Nighttime Lighting.

Refer to Response 14.18, above. The Project does not propose greenhouse facilities. Any cannabis uses would be fully contained within building, and cannabis cultivation and manufacturing uses would not be viewable from public areas, in compliance with Section 5.68.130 of the City Municipal Code. As such, light spill would not be permitted to occur, and the Project's design features would maintain appropriate and safe lighting levels onsite while minimizing light and glare on adjacent properties. No additional analysis or Mitigation Measures are warranted.

Response 14.24

The commenter describes the role of the CDFW LSA Program in cannabis licensing and provides a link for additional information on permitting. This comment does not identify a specific concern with the adequacy of the DEIR or raise an issue or comment specifically related to the DEIR's environmental analysis. In addition, the Project is not anticipated to impact any river, stream, or lake. Therefore, no further response is warranted.

Response 14.25

The commenter notes that the DEIR states that "native plant materials and other drought-tolerant plants will be used in all non-turf areas of project landscaping. Large expanses of lawn and other water-intensive landscaped areas will be kept to the minimum necessary and consistent with the functional and aesthetic needs of the project, while providing soil stability to resist erosion". The commenter notes that the DEIR lacks additional information on landscaping plans, such as plant palette or planting locations. The commenter recommends the DEIR include recommendations regarding landscaping from Section 4.0 of the CVMSHCP Table 4-112. The commenter also recommends water-wise concepts in any project landscape designs.

Recommendations

The City and Project Applicant acknowledge that Table 4-112 in Section 4 of the CVMSHCP contains a list of Coachella Valley native plants that are recommended for landscaping, which the Project's landscaping plan would be in compliance with. Because the Project would meet the City's landscape requirements and invasive species are already addressed by MM BIO-7, the existing Mitigation Measure BIO-7 is sufficient to address the commenter's concerns regarding Project landscaping and no revisions to the measure are warranted.

Response 14.26

The commenter states that information developed in EIRs and negative declarations be incorporated into a database to be used for subsequent or supplemental environmental determinations. Comment

noted. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines..

Response 14.27

The commenter states that environmental document filing fees are payable upon filing of the Notice of Determination and required for the Project approval to be final. Comment noted. The Comment does not request any further information nor assert any issue that must be addressed further pursuant to CEQA Guidelines.

Response 14.28

The commenter concludes by restating the assertions discussed above and provides contact information for CDFW (Jacob Skaggs).

See Responses 14.1 through 14.28. As described above, with minor modification to mitigation measures required for clarity, the DEIR comprehensively addresses impacts to biological resources, and provides mitigation measures which will assure that these impacts are reduced to less than significant levels.

Sincerely,
Rincon Consultants, Inc.



Jared Reed
Senior Biologist/Project Manager



Steven J. Hongola
Principal Biologist

CHRONICLE™ HERITAGE

T: (619) 210-0199
F: (602) 54-3280
info@chronicleheritage.com

SAN DIEGO, CALIFORNIA
3900 Old Town Avenue, Suite A105
San Diego, California 92110

January 7, 2026

Stephen Nieto
Director of Urban Design + Land Development
The Altum Group
44-600 Village Court, Suite 100
Palm Desert, CA 92260
Transmitted via email to: stephen.nieto@thealtumgroup.com

RE: Cultural Resources Memorandum in support of the Final EIR Coachella Airport Business Park Project, Riverside, California

Dear Stephen Nieto,

This letter report is in response to comments and concerns raised by Native American tribal groups to a draft Environmental Impact Report (EIR) in support of the Coachella Airport Business Park Project (Project). Chronicle Heritage (formally Paleo West) completed a Phase 1 cultural resource assessment of the Project area in May 2020 (Thomas 2020). The assessment was conducted in compliance with the California Environmental Quality Act (CEQA). The City of Coachella (City) is the Lead Agency for the purposes of the CEQA. As part the 2020 assessment, Chronicle Heritage included a desktop cultural resource inventory that synthesized the natural and cultural setting of the Project, a records search review of internal literature and previously acquired resource data, communication with the Native American Heritage Commission (NAHC) and interested Native American tribal groups, and the results of a Phase 1 intensive pedestrian survey of the Project area and field methodologies. Chronicle Heritage then provided management recommendations for the treatment of cultural resources. In 2023, a 3-acre parcel was added to the original Project area surveyed for the 2020 study and therefore supplemental work was required (Vyhmeister 2023). As such, Chronicle Heritage completed an updated records search for the original and updated Project area of the California Historical Resources Information System at the Eastern Information Center (EIC). Additionally, Chronicle Heritage conducted a survey on the additional Project parcel, and prepared additional cultural resource documentation to support preparation of an Environmental Impact Report (EIR).

At the client's request, Chronicle Heritage addressed comments on the Draft EIR received from the Torres Martinez Desert Cahuilla Indians and the Agua Caliente Band of Cahuilla Indians. This document includes a summary of Project context, the history of cultural resource assessments, Native American communications and responses, and management recommendations.

Project Location

The proposed Project is located at the northwest corner of State Route (SR) 86 and Airport Boulevard and is comprised of three parcels totaling approximately 46 acres in size. The Project area is bordered by a vacant, undeveloped property to the north; to the west, the Project area is bordered by the Whitewater River Storm Channel; to the east, bordered by State Route 86; and to

the south, by Airport Boulevard. The Project area is situated within Section 15, Township 6 South, Range 18 East, San Bernardino Baseline and Meridian (SBBM), as depicted on the Indio, CA 7.5' U.S. Geological Survey (USGS) topographic quadrangle. The elevation of the Project area ranges between 110 and 120 feet below mean sea level (bmsl).

Previous Cultural Resource Investigations

Chronicle Heritage conducted an updated records search at the EIC housed at the University of California, Riverside in 2023. This records search included the updated Project area and a 1-mi buffer search area. The EIC records search identifies any known cultural resources that have been previously recorded within the records search area and immediate vicinity of the Project area. The search also included a review of the Office of Historic Preservation (OHP) Archaeological Determination of Eligibility (ADOE) and the OHP Built Environment Resources Directory (BERD).

The records search indicated that no fewer than 35 previous cultural resource studies have been conducted within 1-mi of the Project area since 1974. Of the 35 previous studies, at least 11 of these studies intersect or include the Project area.

The records search also indicated that no fewer than 36 cultural resources have been previously documented within 1-mi of the Project area. None of these resources are within or intersect the Project area.

2023 Cultural Resource Pedestrian Survey

Chronicle Heritage conducted a Phase 1 cultural resource survey of the Project area on December 7, 2023. The survey entailed an intensive pedestrian survey in which all landforms likely to contain or exhibit archaeological sites were carefully inspected. Chronicle Heritage field crew inspected the Project area for any visible, potentially important cultural resources as well as investigated the Project area for any unusual contours, soil changes, distinctive vegetation patterns, and features. The supplemental pedestrian survey was negative for any cultural resources, nor were any potential indicators observed.

Buried Sensitivity Study

An archaeological sensitivity model for the Whitewater River Stormwater Channel (or Coachella Valley Stormwater Channe) prepared by Applied EarthWorks in 2012 was consulted by Chronicle Heritage in 2023. The sensitivity model concluded that the potential for discovering surface cultural resources in this area, including historical and prehistoric resources, is low, and the potential for buried cultural resources is unknown (Mirro 2012). No previous studies have demonstrated either a presence or absence of buried cultural resources. However, the model did identify research that suggests the location of a village may be in the general vicinity and, if present, it is possibly buried by muds deposited during the most recent filling of the Salton Sea (Mirro 2012). Thus, the sensitivity of this area is low for surface prehistoric and historical archaeology and unknown for buried resources.

Native American Outreach and Responses

Chronicle Heritage (then PaleoWest) initially contacted the NAHC, as part of the cultural resource assessment, on March 18, 2020, for a review of the Sacred Lands File (SLF). The objective of the SLF search was to determine if the Native American Heritage Commission had any knowledge of Native American cultural resources (e.g., traditional use or gathering area, place of religious or sacred activity, etc.) within the immediate vicinity of the Project area. The NAHC responded on March 28, 2020, stating that the SLF was completed with negative results; however, the NAHC requested that 19 individuals representing 12 Native American tribal groups be contacted to elicit information regarding cultural resource issues related to the proposed Project. Chronicle Heritage sent outreach letters to the 12 recommended tribal groups on April 3 and April 6, 2020. Phone calls were also sent out to the various tribal groups by April 30, 2020.

Five responses were received from the list of tribal groups from the NAHC in 2020. The Quechan Tribe of the Fort Yuma Reservation and Santa Rosa Band of Cahuilla Indians stated the tribes do not have any comments for the Project. The Agua Caliente Band of Cahuilla Indians stated that the Project area is within their Traditional Use Area and made some requests for information as well as monitoring during ground disturbance. The Torres-Martinez Desert Cahuilla Indians indicated that the area is sensitive for cultural resources and, as such, they will provide information regarding the sensitivity of the area during the official Assembly Bill (AB) 52 consultation process. The Soboba Band of Luiseno Indians deferred to the Torres Martinez Desert Cahuilla Indians.

Gary Wayne Resvaloso Jr. responded on behalf of the Torres Martinez Cultural Committee on July 21, 2025, regarding concerns for the Coachella Airport Business Park.

The Torres Martinez Desert Cahuilla Indians identified three areas of concern for the proposed Project: 1) Tribes Prehistoric settlement pattern, 2) A main Indian trail, and 3) the Desert Cahuilla Cultural landuse area. Concerns are further explained below:

- Tribes' Prehistoric settlement pattern begins around Airport Boulevard/ 86 HWY. This is a continuous settlement pattern running south starting with prehistoric village La mesa site, then Roadrunner house, Martinez, Alamo, and Auga Dulce and Túva with many smaller extended village sites that run through the communities of Thermal, Mecca, and Oasis.
- A main Indian trail runs from the main village sites La Mesa to Túva with smaller branches of the trail breaking off and connecting other village sites that run through the communities of Thermal, Mecca, and Oasis.
- There are several main village sites located in this Desert with each village site having its own landuse area that can be spread out over several square miles. With these village sites being so close together, there are many overlapping areas depending on their relationships.

Furthermore, the Project area is located between the Village sites of Termal Wakhish, Awelpitcava, Palaiyil, and Puichekiva. Understanding that the area is disturbed due to Palm Groves, the tribe has found deep and intact archaeological features related to the tribe's mortuary practices underneath deep plow zones. As such, the Torres Martinez Cultural Committee asks, "is there any subsurface cultural content underneath the disturbed soil, or intact cultural or archaeological features?" The Committee recommends Phase II testing to determine if any cultural material is present in undisturbed sediments and to assist in mitigation of impact to any potential Tribal Cultural Resources. Lastly, the Committee comments that if the proposed Project is going to

require ground disturbance during construction efforts, the Tribe requires a Data Recovery Plan (monitoring plan / tribal monitoring) to address any cultural materials found during construction.

On July 23, 2024, Xitlaly Madrigal responded on behalf of the Agua Caliente Band of Cahuilla Indians regarding Mitigation Measures outlined in the Draft EIR. In the Cultural Resource section of the Draft EIR, Madrigal commented on the outlined Mitigation Measures and **suggests altering language** within CUL-1 that **specifies an Agua Caliente Band of Cahuilla Indians Tribal** Monitor be attained and present during any ground disturbing activities during the Project construction phase.

Management Recommendations

Chronicle Heritage responded to the concerns and questions raised by the tribes in response to the Draft EIR. This response was developed by integrating the findings of our recent technical studies with the tribe's suggestions. We have organized our response around the specific concerns from tribes and Chronicle Heritage recommendations.

Potential for Subsurface Cultural Content

Our comprehensive investigation, informed by both technical studies and the Committee's traditional cultural knowledge, leads to the following conclusion (s):

- Our 2023 records search, intensive Phase 1 survey, and consultation of the 2021 Archaeological Sensitivity Model all found **no documented or visible surface cultural resources** in the Project area. The sensitivity model concluded that **the potential for surface resources remains low**. Additionally, the intensive archaeological survey noted the Project area is relatively disturbed and is located within an active alluvial plain. As such, the **likelihood of identifying archaeological resources in original context is considered low**.

Based on the lack of surface evidence combined with the Tribal knowledge of subsurface risk to deeply buried sensitive cultural resource, Chronicle Heritage **recommends** in the event that potentially significant cultural materials are encountered during Project-related ground-disturbing activities, all work should be halted in the vicinity of the discovery until a qualified archaeologist can visit the site of discovery and assess the significance of the archaeological resource. In addition, Health and Safety Code 7050.5, CEQA 15064.5(e), and Public Resources Code 5097.98 mandate the process to be followed in the unlikely event of an accidental discovery of any human remains in a location other than a dedicated cemetery. Chronicle Heritage **recommends** a qualified archaeologist and Tribal Monitor(s) from the Agua Caliente Band of Cahuilla Indians and the Torres Martinez Desert Cahuilla Indians be present during any ground disturbing activities. Additionally, Chronicle Heritage **recommends** specifying the tribes noted above, within Section 4.5 under the Mitigation Measures subsection (CUL-1), as the preferred Tribal Monitors in the Draft EIR.

Recommendation for Phase II Testing

Chronicle Heritage **does not recommend** any further cultural resource management for the current Project. While we greatly appreciate the recommendation for Phase II testing, and recognize its value, Mitigation Measure CUL-1 already provides for the establishment of all necessary protocols and procedures for the treatment of cultural resources prior to the initiation

of ground disturbing activities. As such, a formal Tribal Cultural Resources Monitoring Plan is not recommended.

It has been a pleasure working with you on this Project. If you have any questions, please do not hesitate to contact the Principal Investigator at cmahan@chronicleheritage.com.

Sincerely,
Chronicle Heritage



Chase M. Mahan, M.A., RPA | Senior Archaeologist/Principal Investigator

References

California Governor's Office of Planning and Research

2015 *CEQA: California Environmental Quality Act, Statutes and Guidelines*. State of California, Sacramento, California.

Mirro, Michael

2012 Archaeological Sensitivity Model for the Whitewater River Stormwater Channel, Riverside County, California. Prepared for the Coachella Valley Water District. Prepared by Applied EarthWorks, Inc., Hemet, California.

Thomas, Roberta

2020 Cultural Resource Investigation in Support of the Coachella Airport Business Park Project, Riverside County, California. Prepared for The Altum Group, Palm Desert, California. Prepared by PaleoWest LLC, Monrovia, California.

Vyhmeister, Joy

2023 Addendum Letter Report for the Cultural Resource Investigation in Support of the Coachella Airport Park Project, Riverside County, California.

AMBIENT
AIR QUALITY & NOISE CONSULTING

75 Higuera Street, Suite 105
San Luis Obispo, CA 93401
www.Ambient.Consulting

October 21, 2025

Madeline Luke
The Altum Group
44-600 Village Court, Suite 100
Palm Desert, CA 92260

Subject: **City of Coachella – Coachella Airport Business Park Project – Responses to Noise Related Public Comments.**

Dear Ms. Luke:

AMBIENT Air Quality & Noise Consulting has reviewed the noise-related public comments received for the proposed Coachella Airport Business Park Project Draft Environmental Impact Report (DEIR). Responses to the noise-related public comments are provided, as follows:

Response to Comment 16-4.

Construction-generated noise levels were analyzed in accordance with commonly-applied recommended guidance. All modeling assumptions are noted in the methodology section of the analysis and included in the appendix of the report. As noted in the DEIR and with regard to residential land uses, increases in ambient noise levels during the more noise-sensitive evening and nighttime hours would be of particular concern with regard to residential land uses due to the potential for increased levels of annoyance and sleep disruption. Mitigation measures have been incorporated to reduce potentially significant impacts to nearby residential land uses. In addition, refer to Response to Comment 16-25.

Response to Comment 16-11.

Diesel-powered backup generators are quickly becoming obsolete in California, with the new Title 24 regulations that require solar PV systems to include battery storage systems that can also be utilized for backup power. Mitigation Measure GHG-1 requires the project to be designed to generate a minimum of 50% of the power onsite from renewable sources, which is likely to be at least partially met through the use of battery storage systems. In addition, the proposed warehouses are not being designed for cold storage or for 24-hour operations. As a result, the installation of back-up emergency generators are not anticipated to be required for this project.

Response to Comment 16-12.

As noted in Response to Comment 16-11, the proposed warehouses are not being designed for cold storage, as such cold storage would not be allowed under the current entitlement. As a result, the use of TRUs are not anticipated to be required.

AMBIENT
AIR QUALITY & NOISE CONSULTING

75 Higuera Street, Suite 105
San Luis Obispo, CA 93401
www.Ambient.Consulting

Response to Comment 16-25.

The commenter cites information and anticipated community reactions contained in the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual*[1] that relates to long-term noise exposure over a 24-hour period, based on an average-daily noise level. This information does not pertain to short-term noise exposure, such as the on average-hourly noise thresholds recommended by the FTA for the analysis of construction activities. With regard to the assessment of short-term construction related noise impacts, the FTA guidelines present recommended noise thresholds, taking into account the noise-sensitivity of the land use and ambient noise conditions. For residential land uses, the guidelines recommend thresholds of 80 dBA L_{eq} for the daytime hours and 70 dBA L_{eq} for the nighttime hours. With regard to these recommended short-term average-hourly construction noise thresholds noted in the guidelines, the guidelines state that "If these criteria are exceeded, there may be adverse community reaction."

As noted in the DEIR, the nearest noise-sensitive receptors are residential land uses located approximately 60 feet south of the project site. The analysis noted that predicted daytime and nighttime construction noise levels would exceed corresponding daytime and nighttime noise thresholds of 80 dBA L_{eq} for the daytime hours and 70 dBA L_{eq}. As noted in the DEIR, increases in ambient noise levels during the more noise-sensitive evening and nighttime hours would be of particular concern with regard to residential land uses due to the potential for increased levels of annoyance and sleep disruption.

With regard to daytime exposure to short-term construction noise, the nearest residential land uses are currently exposed to traffic noise emanating from the adjacent Airport Boulevard and nearby State Route 86. As noted in the DEIR, ambient daytime noise levels in the vicinity of these nearest residential land uses measured approximately 68 dBA L_{eq} with maximum instantaneous noise levels of approximately 79 dBA L_{max} primarily associated with vehicle traffic on Airport Boulevard. Generally speaking, residential land uses are often exposed to increases in daytime ambient noise levels from a variety of sources, such as vehicle traffic on area roadways, landscape maintenance activities, waste-collection activities, and outdoor recreation activities. These sources can result in significant increases in daytime ambient noise levels. For instance, the use of landscape maintenance equipment, such as leaf blowers, can generate noise levels in excess of 90 dBA. With mitigation, predicted construction noise levels at the nearest residential land uses would be approximately 79 dBA L_{eq}, or less. Predicted construction noise levels during the less noise-sensitive daytime hours would not be uncharacteristic of other existing short-term noise events (e.g., landscape maintenance activities, vehicle traffic on area roadways, waste collection activities, etc.) commonly associated with residential land uses. It is also important to note that the construction noise levels noted in the DEIR were conservatively calculated assuming that five pieces of heavy-duty offroad equipment would be located within 60 feet of the nearest residential property line. Given that transient and temporal nature of construction activities,

[1] FTA. *Transit Noise and Vibration Impact Assessment Manual*. Website url: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf.

it is highly unlikely that five pieces of heavy-duty off-road construction equipment would be operating simultaneously within 60 feet of these nearest residential land uses. As a result, actual construction-generated noise levels would likely be substantially lower. In comparison to ambient daytime noise conditions and given that predicted construction-generated noise levels would not exceed applicable daytime thresholds, and adverse community reaction among nearby residents would not be anticipated to occur.

Response to Comment 16-26.

Refer to Response to Comment 16-25, above.

Response to Comment 16-27.

The commenter incorrectly implies that the use of mufflers are accounted for in FHWA's Road Construction Noise Model (RCNM). As noted in the DEIR, construction noise levels were conservatively calculated using the FHWA's RCNM based on equipment reference noise levels identified in FHWA's RCNM. These reference noise levels are based on measured data from railroad construction equipment taken during the *1976 Northeast Corridor Improvement Project* derived from *U.S. EPA report "Noise from Construction Equipment and Operations, Building Equipment and Home Appliances" (NTID300.1, 31 December 1971), and* measurements conducted in the early 1990's for the Central Artery/Tunnel (CA/T) project in Boston, Massachusetts.[2] Although this data is the most current and comprehensive data currently available for off-road construction equipment noise levels, the representative equipment noise levels contained in the FHWA's RCNM are now more than 20 years old and do not specifically account for the use of newer construction equipment fitted with mufflers. As noted in the DEIR, the use of mufflers would reduce equipment noise levels by approximately 10 dBA. With mitigation, predicted construction noise levels would not exceed the daytime noise threshold of 80 dBA L_{eq}. In addition, refer to Response to Comment 16-25, above.

Response to Comment 16-28.

To be conservative, the analysis of on-site operational noise levels included the simultaneous operation of all air conditioning (AC) units anticipated to be located on the project site. A total of 92 AC units were included, which were assigned to onsite structures based on the estimated area of conditioned floor area. Modeled AC unit locations and SoundPlan modeling assumptions are included in Appendix A of the Noise Impact Analysis prepared for this project. Modeling was conducted based on an AC unit sound power level of 77 dB LwA. This level is equivalent to an AC unit roughly 6 tons in size.[3] Based on a commonly-applied average of 1,000 square feet per ton of cooling capacity, taking into account current building code requirement for energy efficiency, each AC unit would cool an estimated temperature-controlled floor area of roughly 6,000 square feet. Based on this square-footage cooling area, the modeled AC unit noise levels would be representative of those anticipated to be required for this project.

[2] FHWA. *Road Construction Noise Model User Guide*. Available at website url: https://www.fhwa.dot.gov/ENVIRonment/noise/construction_noise/rcnm/rcnm.cfm.

[3] Rheem. Website url: https://files.myrheem.com/webpartners/ProductDocuments/DA8465B1-3B91-4FEF-B148-C1AA04DF26EA.pdf

In addition, the 25-ton AC units noted by the commenter are more representative of what might be installed for large open-floor commercial retail buildings or refrigerated warehouses. None of the warehouses proposed for this project are being designed as refrigerated warehouses and no large open-floor commercial retail buildings are proposed as part of this project. It is also important to note that AC units typically operate in a cyclic manner and do not operate continuously over a one-hour period. However, to ensure a conservative analysis, all AC units on the project site were assumed to operate simultaneously over a one-hour period. As a result, actual average-hourly noise levels would likely be lower than estimated. Furthermore, as noted in the DEIR, ambient noise levels at the nearest residential land uses located south of the project site, across Airport Boulevard, are predominantly influenced by vehicle traffic on area roadways. Based on the noise measurements conducted, ambient average-hourly noise levels at the nearest residential land uses range from a nighttime low of 59 dBA L_{eq} to a daytime high of 68 dBA L_{eq}. In comparison to ambient noise conditions, operational noise levels attributable to the proposed project at these nearest residences would be approximately 44 dBA L_{eq} during the nighttime hours and 54 dBA L_{eq} during the daytime hours, more than 10-dB lower than ambient noise levels. Predicted operational noise levels would be substantially lower than ambient nighttime and daytime noise levels at the nearest residential land uses. As a result, operational on-site noise levels would not result in a substantial increase in ambient noise levels and would be largely masked by existing traffic noise levels.

It is also important to note that the analysis of on-site noise levels was conservatively conducted in comparison to the noise ordinance standards for Riverside County, within which the nearest residential land uses are located.[4] In accordance with the County's noise ordinance, the operation of air conditioning units are considered exempt from these noise standards.

Response to Comment 16-29.

Modeling was conducted based on the anticipated operational hours for the project. As previously noted, the proposed warehouses are not large cube-storage warehouse and are not being designed for 24-hour operations. Predicted operational noise levels would not exceed applicable noise standards. In addition, as noted in Response to Comment 16-28, predicted operational noise levels would be more than 10-dB lower than ambient noise levels at the nearest residential land uses and would be largely masked by existing ambient noise levels.

Response to Comment 16-30.

As previously noted, the nearest residential land uses are located south of the project site, adjacent to Airport Boulevard and west of State Route 86. As a result, ambient noise levels at these nearest residential land uses are largely influenced by vehicle traffic noise on Airport Boulevard and nearby State Route 86, which include existing

[4] Riverside County. *Code of Ordinances. Chapter 9.52, Noise Regulation*. Website url: https://library.municode.com/ca/riverside_county/codes/code_of_ordinances?nodeId=TIT9PUPEMOWE_CH9.52NORE_9.52.040GESOLEST.

75 Higuera Street, Suite 105
San Luis Obispo, CA 93401
www.Ambient.Consulting

pass-by events associated with truck traffic on these roadways. Implementation of the proposed project would not result in a substantial increase in the number of heavy-duty truck volumes along Airport Boulevard or State Route 86. As a result, implementation of the project would not result in significant increases in traffic noise levels or the number of traffic-related noise events at the nearest residential land uses. In comparison to ambient noise levels measured at the nearest residential land uses, noise levels from on-site noise sources, including on-site truck travel, would be largely masked by existing traffic noise emanating from adjacent Airport Boulevard and the nearby State Route 86. In addition, the project is not anticipated to include nighttime operations associated with proposed onsite warehouses that would generate heavy-duty truck traffic.

In addition, on-road heavy-duty trucks traveling on the project site would be estimated to average approximately 25 mph, or less. At these low speeds, noise generated by on-site truck travel would be associated with the operation of the truck's engine and vehicle exhaust. These sources are not considered instantaneous noise sources and, therefore, are more appropriately evaluated based on an average-daily or average-hourly noise metric, consistent with methodologies currently recommended by federal and state agencies (i.e., Federal Highway Administration, California Department of Transportation) for the analysis of on-road traffic noise, as was done for this project. For reference, instantaneous noise events refer to sharp, sudden noise events of short duration, typically occurring over a period of seconds and at levels substantially higher than ambient noise levels. Examples of instantaneous noise events commonly associated with transportation noise sources typically include aircraft overflights and the sounding of train horns. Furthermore, it is noted that the commenter does not provide a basis for the reference noise level used for the calculation of L_{max} noise levels associated with a single truck. Based on the information presented in the comment, it appears that the calculation is based on noise levels derived from the FHWA's *Road Construction Noise Model* (RCNM) for off-road construction haul trucks. As noted in Response to Comment 16-27, the reference noise level data contained in the RCNM is more than 20 years old, does not specifically account for the use of mufflers (as is required for on-road vehicles); and, as a result, would not be representative of noise levels associated with the operation of modern on-road trucks.

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Date: October 14, 2025

To: Andrew Simmons, City Engineer, City of Coachella

From: George Ghossain, Principal Engineer, Integrated Engineering Group

Subject: COACHELLA AIRPORT BUSINESS PARK SUPPLEMENTAL TRANSPORTATION ANALYSIS

Integrated Engineering Group has prepared this supplemental transportation analysis to address Comment Letters 3 and 15 from the County of Riverside and California Department of Transportation, respectively. The letters were provided during the public review period for the Coachella Airport Business Park Draft Environmental Impact Report.

Comments 3-7 and 15-7(5) requested Project trip distribution to be shown by intersection movement to clarify Figure 1-2:
Attachment A includes new Figure 1-2a to show Project trip distribution by intersection movement.

Comment 3-7 requested pass-by trips to be added to the analyzed Project trips:
Attachment A includes updated intersection volume figures including new Figure 1-2b to show pass-by trip distribution and assignment. **Attachment B** includes updated intersection operation analysis for the Project driveway under all scenarios that include a Project phase.

Comments 15-7(4) requested that heavy vehicle share is consistent with Caltrans requirements for SR-86 ramps and Comment 15-7(5) requested discussion of Caltrans Truck Network:
Per the District 8 Truck Networks included in Attachment C, none of the study intersections or roadway segments are a designated truck route. However, for a conservative analysis, a 19% heavy vehicle share was applied to the Project trip movements at the SR-86 ramp intersections per the latest Truck Traffic data from the Caltrans Traffic Census Program. Truck Traffic data and updated intersection operation analysis for the SR-86 ramp intersections are also included in Attachment C.

The following tables from the TIA are updated to show the results of the supplemental intersection operation analysis that included either addition of pass-by trips or addition of Caltrans heavy vehicle share for all scenarios that include a Project phase. The analysis updates do not result in any additional deficient intersection locations.

Table 4-1
Opening Year 2027 Scenario Intersection Operation Analysis

Intersection	Opening Year 2027 Baseline		Opening Year 2027 Plus Project	
	Delay (a)	LOS (b)	Delay (a)	LOS (b)
AM Peak/PM Peak				
2. Airport Boulevard and SR-86 Northbound Ramps	11.2/8.7	B/A	12.0/9.2	B/A
3. Airport Boulevard and SR-86 Southbound Ramps	17.9/12.0	B/B	30.6/23.5	C/C
10. Airport Boulevard and Project Driveway (Option A)[c]	Does not exist		7.6/10.2	A/B
10. Airport Boulevard and Project Driveway (Option B)	Does not exist		7.4/9.9	A/A

Notes:
(a) Delay refers to the average control delay, measured in seconds per vehicle for the entire signalized or all-way stop-controlled (AWSC) intersection. At side-street stop-controlled (SSSC) intersection, delay refers to the worst movement.
(b) LOS calculations are based on the methodology outlined in the Highway Capacity Manual 6th Edition and performed using Synchro 12
(c) Option A assumed 30% inbound traffic has entered from easterly driveway and 70% enters from this analyzed driveway.

Table 5-1
Opening Year 2030 Scenario Intersection Operation Analysis

Intersection	Opening Year 2030 Baseline		Opening Year 2030 Plus Project	
	Delay (a)	LOS (b)	Delay (a)	LOS (b)
AM Peak/PM Peak				
2. Airport Boulevard and SR-86 Northbound Ramps	11.6/9.1	B/A	11.8/9.0	B/A
3. Airport Boulevard and SR-86 Southbound Ramps	24.7/23.1	C/C	33.6/24.4	C/C
10. Airport Boulevard and Project Driveway (Option A)[c]	7.2/9.5	A/A	7.5/10.8	A/B
10. Airport Boulevard and Project Driveway (Option B)	6.9/9.2	A/A	7.2/10.5	A/B

Notes:
(a) Delay refers to the average control delay, measured in seconds per vehicle for the entire signalized or all-way stop-controlled (AWSC) intersection. At side-street stop-controlled (SSSC) intersection, delay refers to the worst movement.
(b) LOS calculations are based on the methodology outlined in the Highway Capacity Manual 6th Edition and performed using Synchro 12
(c) Option A assumed 30% inbound traffic has entered from easterly driveway and 70% enters from this analyzed driveway.

Table 6-1
Opening Year 2033 Scenario Intersection Operation Analysis

Intersection	Opening Year 2033 Baseline		Opening Year 2033 Plus Project	
	Delay (a)	LOS (b)	Delay (a)	LOS (b)
AM Peak/PM Peak				
2. Airport Boulevard and SR-86 Northbound Ramps	11.8/9.6	B/A	11.3/9.1	B/A
3. Airport Boulevard and SR-86 Southbound Ramps	48.6/26.0	D/C	49.5/27.4	D/C
10. Airport Boulevard and Project Driveway (Option A)[c]	7.1/10.4	A/B	7.3/11.7	A/B
10. Airport Boulevard and Project Driveway (Option B)	6.8/10.1	A/B	7.0/11.4	A/B

Notes:
(a) Delay refers to the average control delay, measured in seconds per vehicle for the entire signalized or all-way stop-controlled (AWSC) intersection. At side-street stop-controlled (SSSC) intersection, delay refers to the worst movement.
(b) LOS calculations are based on the methodology outlined in the Highway Capacity Manual 6th Edition and performed using Synchro 12
(c) Option A assumed 30% inbound traffic has entered from easterly driveway and 70% enters from this analyzed driveway.

Table 7-1
Buildout 2045 Scenario Intersection Operation Analysis

Intersection	Buildout 2045 Baseline		Buildout 2045 Plus Project		Buildout 2045 With Improvement		Δ Delay (c)
	Delay (a)	LOS (b)	Delay (a)	LOS (b)	Delay (a)	LOS (b)	
AM Peak/PM Peak							
2. Airport Boulevard and SR-86 Northbound Ramps	17.2/18.3	B/B	17.8/18.8	B/B			
3. Airport Boulevard and SR-86 Southbound Ramps	54.3/41.6	D/D	55.8/43.6	**E**/D	54.5/36.6	D/D	0.2/2.0
10. Airport Boulevard and Project Driveway (Option A)[d]	8.7/10.0	A/B	9.4/11.5	A/B			
10. Airport Boulevard and Project Driveway (Option B)	7.1/9.8	A/A	7.4/11.2	A/A			

Notes:
***Bold** values indicate intersections operating at LOS E or F.*
(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At unsignalized intersection, delay refers to the worst movement.
(b) LOS calculations are based on the methodology outlined in the Highway Capacity Manual 6th Edition and performed using Synchro 12
(c) Change in delay between Buildout Year 2045 With Improvement and Buildout Year 2045 Baseline
(d) Option A assumed 30% inbound traffic has entered from easterly driveway and 70% enters from this analyzed driveway.

Comment 15-7 requested that Figure 1-2 and Roadway Segment analysis tables be updated to include numbering: Attachment A includes updated Figure 1-2 to number roadway segments in the study area, consistent with TIA Executive Summary and Section 1.0 Project Description. Below are the updated Roadway Segment analysis tables.

Table 3-2
Existing Year 2024 Scenario Roadway Segment Capacity Analysis

Roadway Segment	Classification	LOS E Capacity	Existing Year 2024		
			ADT	v/c ratio	LOS
Airport Boulevard					
1. SR-86 SB Ramps to SR-86 NB Ramps	2-lane Arterial	18,000	5,760	0.320	A
2. SR-86 SB Ramps to Project Driveway	2-lane Arterial	18,000	7,615	0.423	A
3. Project Driveway to Palm Street	2-lane Arterial	18,000	7,778	0.432	A
4. Palm Street to Polk Street	4-lane Arterial	35,900	6,912	0.193	A
Grapefruit Boulevard					
5. Palm Street to Avenue 54	2-lane Arterial	18,000	11,004	0.611	B
6. Avenue 54 to Tyler Street	2-lane Arterial	18,000	9,629	0.535	A
7. Tyler Street to Sunset Drive	4-lane Arterial	35,900	14,656	0.408	A

Table 4-3
Opening Year 2027 Scenario Roadway Segment Capacity Analysis

Roadway Segment	Classification	LOS E Capacity	Opening Year 2027 Baseline			Opening Year 2027 Plus Project		
			ADT	v/c ratio	LOS	ADT	v/c ratio	LOS
Airport Boulevard								
1. SR-86 SB Ramps to SR-86 NB Ramps	2-lane Arterial	18,000	7,376	0.410	A	8,786	0.488	A
2. SR-86 SB Ramps to Project Driveway	2-lane Arterial	18,000	9,145	0.508	A	10,995	0.611	A
3. Project Driveway to Palm Street	2-lane Arterial	18,000	9,227	0.513	A	10,137	0.0563	A
4. Palm Street to Polk Street	4-lane Arterial	35,900	8,362	0.233	A	8,692	0.242	A
Grapefruit Boulevard								
5. Palm Street to Avenue 54	2-lane Arterial	18,000	15,390	0.855	D	15,920	0.884	D
6. Avenue 54 to Tyler Street	2-lane Arterial	18,000	16,419	0.912	**E**	16,779	0.932	**E**
7. Tyler Street to Sunset Drive	4-lane Arterial	35,900	18,854	0.525	A	19,134	0.533	A

Notes:
***Bold** indicates roadway segment capacity at LOS E or F.*

Table 5-3
Opening Year 2030 Scenario Roadway Segment Capacity Analysis

Roadway Segment	Classification	LOS E Capacity	Opening Year 2030 Baseline			Opening Year 2030 Plus Project		
			ADT	v/c ratio	LOS	ADT	v/c ratio	LOS
Airport Boulevard								
1. SR-86 SB Ramps to SR-86 NB Ramps	2-lane Arterial	18,000	10,402	0.578	A	10,822	0.601	B
2. SR-86 SB Ramps to Project Driveway	2-lane Arterial	18,000	12,525	0.696	B	13,075	0.726	C
3. Project Driveway to Palm Street	2-lane Arterial	18,000	11,586	0.644	B	11,856	0.659	B
4. Palm Street to Polk Street	4-lane Arterial	35,900	10,142	0.283	A	10,242	0.285	A
Grapefruit Boulevard								
5. Palm Street to Avenue 54	2-lane Arterial	18,000	20,306	1.128	**F**	20,456	1.136	**F**
6. Avenue 54 to Tyler Street	2-lane Arterial	18,000	23,568	1.309	**F**	23,678	1.315	**F**
7. Tyler Street to Sunset Drive	4-lane Arterial	35,900	23,332	0.650	B	23,412	0.652	B

Notes:
***Bold** indicates roadway segment capacity at LOS E or F.*

Table 6-3
Opening Year 2033 Scenario Roadway Segment Capacity Analysis

Roadway Segment	Classification	LOS E Capacity	Opening Year 2033 Baseline			Opening Year 2033 Plus Project		
			ADT	v/c ratio	LOS	ADT	v/c ratio	LOS
Airport Boulevard								
1. SR-86 SB Ramps to SR-86 NB Ramps	2-lane Arterial	18,000	12,438	0.691	B	12,788	0.710	C
2. SR-86 SB Ramps to Project Driveway	2-lane Arterial	18,000	14,604	0.811	D	15,074	0.837	D
3. Project Driveway to Palm Street	2-lane Arterial	18,000	13,305	0.739	C	13,535	0.752	C
4. Palm Street to Polk Street	4-lane Arterial	35,900	11,691	0.326	A	11,771	0.328	A
Grapefruit Boulevard								
5. Palm Street to Avenue 54	2-lane Arterial	18,000	24,841	1.380	**F**	24,971	1.387	**F**
6. Avenue 54 to Tyler Street	2-lane Arterial	18,000	30,468	1.693	**F**	30,558	1.698	**F**
7. Tyler Street to Sunset Drive	4-lane Arterial	35,900	27,610	0.769	C	27,680	0.771	C

Notes:
***Bold** indicates roadway segment capacity at LOS E or F.*

Table 7-3
Buildout 2045 Scenario Roadway Segment Capacity Analysis

Roadway Segment	Classification	LOS E Capacity	Buildout Year 2045 Baseline			Buildout Year 2045 Plus Project		
			ADT	v/c ratio	LOS	ADT	v/c ratio	LOS
Airport Boulevard								
1. SR-86 SB Ramps to SR-86 NB Ramps	6-lane Arterial	53,900	12,438	0.231	A	12,788	0.237	A
2. SR-86 SB Ramps to Project Driveway	6-lane Arterial	53,900	14,604	0.271	A	15,074	0.280	A
3. Project Driveway to Palm Street	6-lane Arterial	53,900	13,305	0.247	A	13,535	0.251	A
4. Palm Street to Polk Street	6-lane Arterial	53,900	11,691	0.217	A	11,771	0.218	A
Grapefruit Boulevard								
5. Palm Street to Avenue 54	6-lane Arterial	53,900	24,841	0.461	A	24,971	0.463	A
6. Avenue 54 to Tyler Street	6-lane Arterial	53,900	30,468	0.565	A	30,558	0.567	A
7. Tyler Street to Sunset Drive	6-lane Arterial	53,900	27,610	0.512	A	27,680	0.514	A

ATTACHMENT A -

UPDATED INTERSECTION VOLUME FIGURES

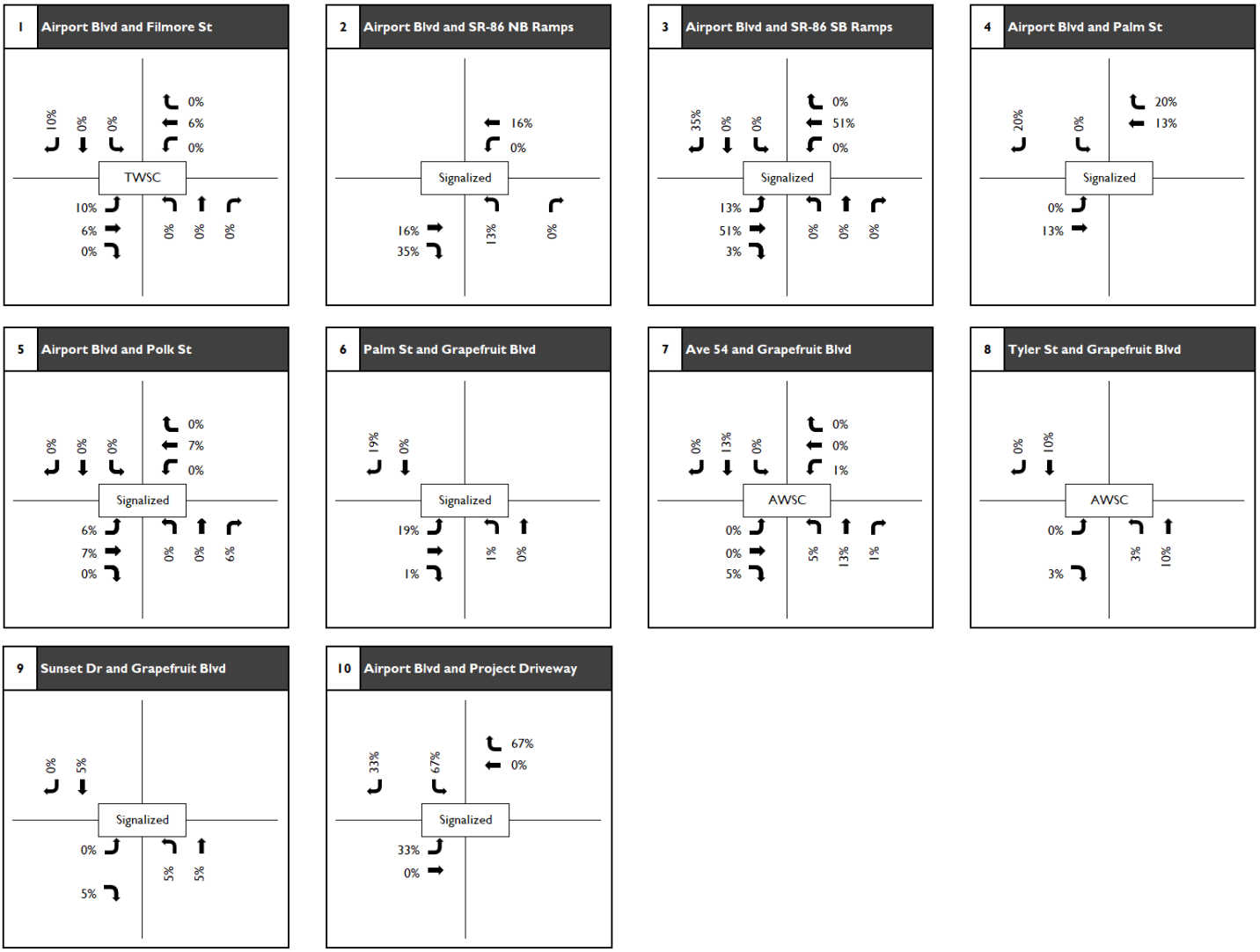


LEGEND

- # Intersections
- # Project Driveway
- # Roadway Segment

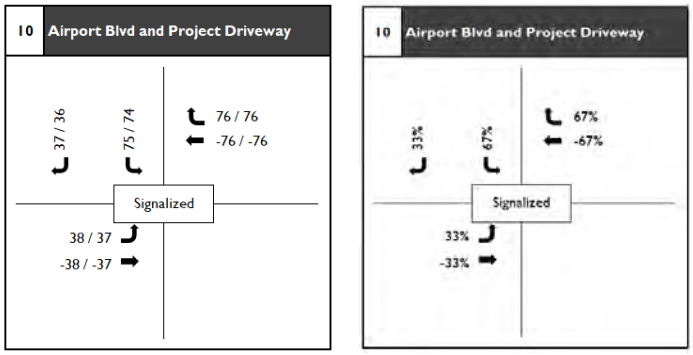
INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Project Study Area and Trip Distribution
Figure 1-2



INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

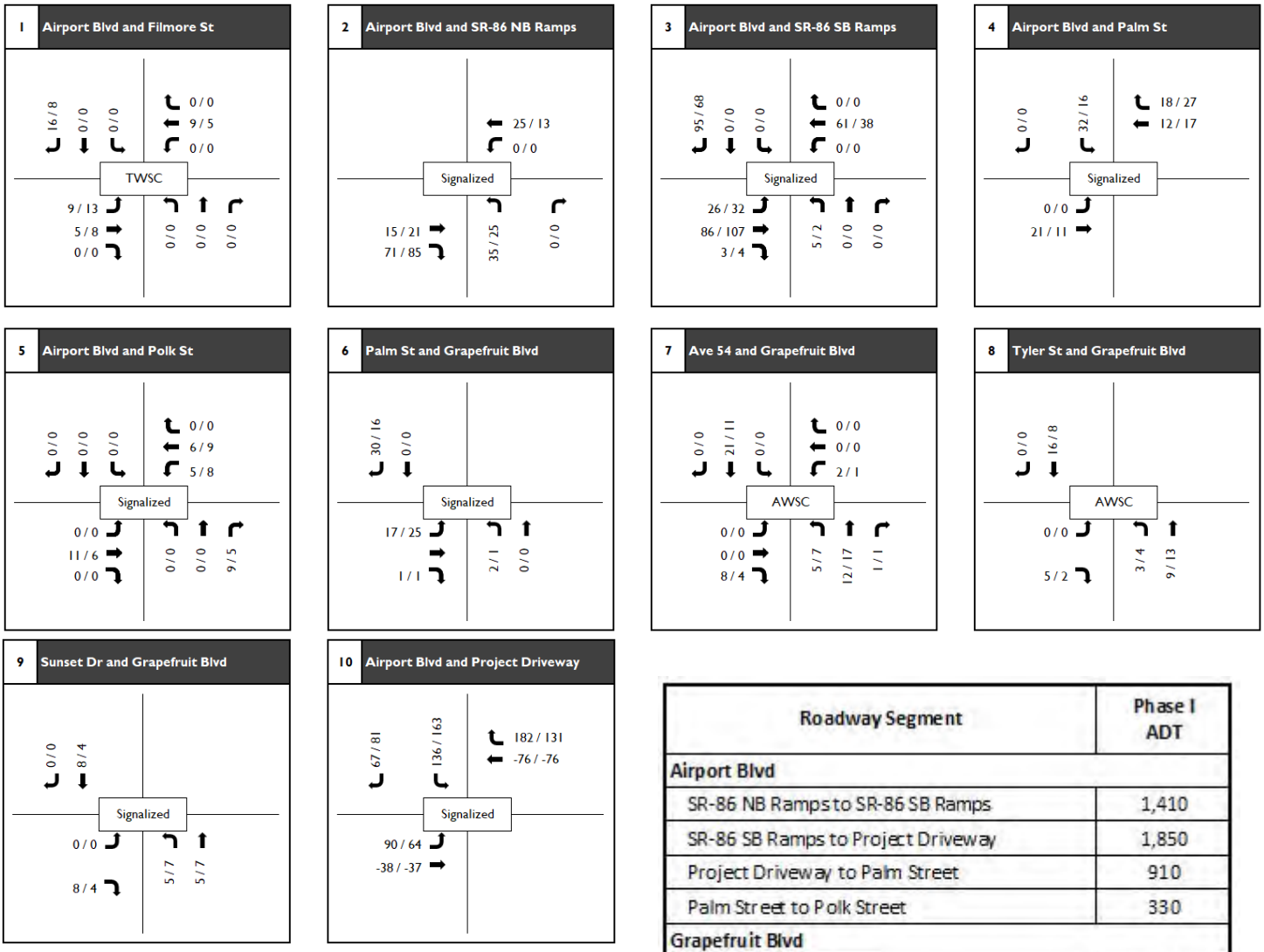
Coachella Airport Business Park
Project Distribution by Intersection Configuration
Figure 1-2a



LEGEND
0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Pass-By AM/PM Peak Hour
Distribution and Intersection Volumes
Figure 1-2b



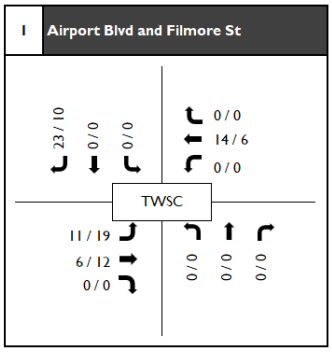
Roadway Segment	Phase I ADT
Airport Blvd	
SR-86 NB Ramps to SR-86 SB Ramps	1,410
SR-86 SB Ramps to Project Driveway	1,850
Project Driveway to Palm Street	910
Palm Street to Polk Street	330
Grapefruit Blvd	
Palm St to Ave 54	530
Ave 54 to Tyler St	360
Tyler St to Sunset Dr	280

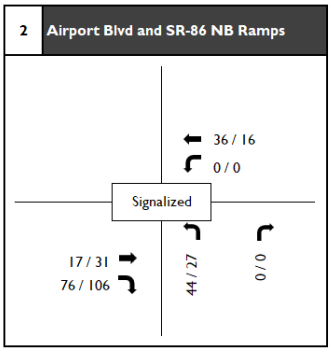
LEGEND

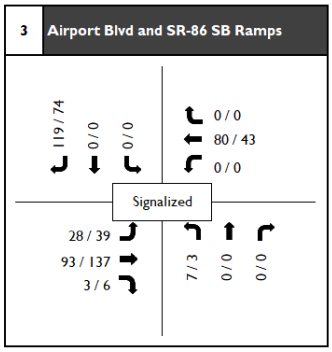
0/0 = (AM/PM) Peak Hour Volumes

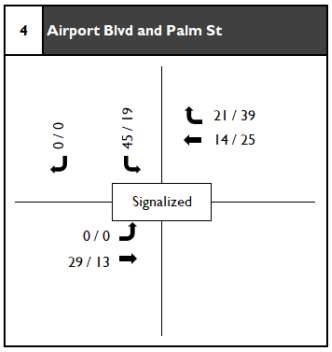
INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

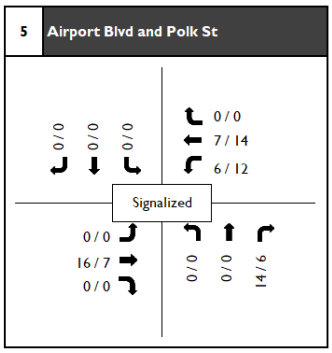
Coachella Airport Business Park
Project Phase I AM/PM Peak Hour Intersection Volumes
Figure 1-3

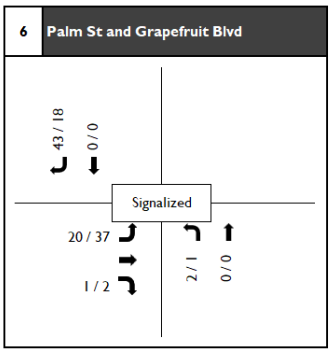


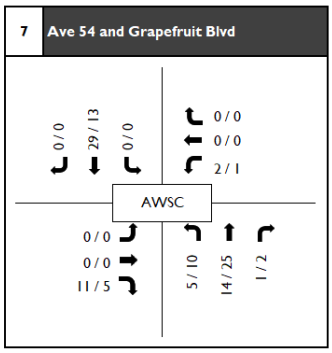


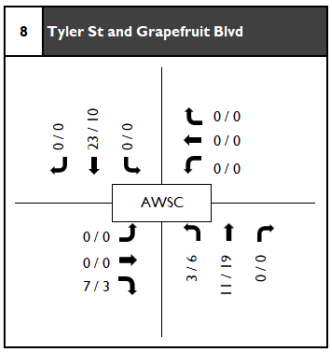


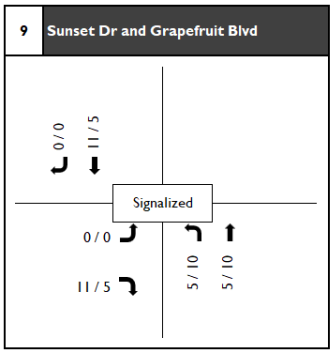


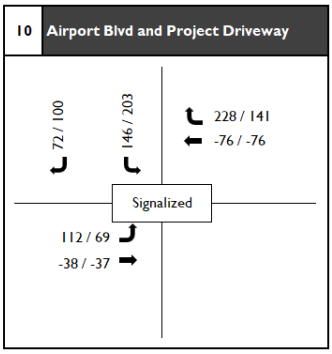












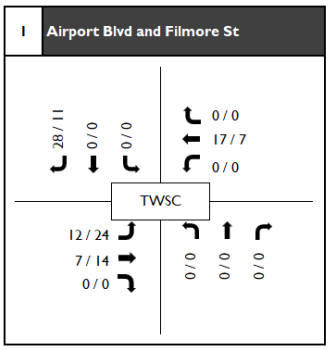
Roadway Segment	Phases I & II ADT
Airport Blvd	
SR-86 NB Ramps to SR-86 SB Ramps	1,830
SR-86 SB Ramps to Project Driveway	2,400
Project Driveway to Palm Street	1,180
Palm Street to Polk Street	430
Grapefruit Blvd	
Palm St to Ave 54	680
Ave 54 to Tyler St	470
Tyler St to Sunset Dr	360

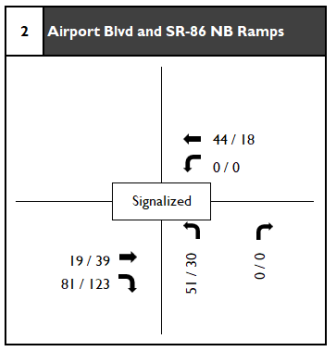
LEGEND

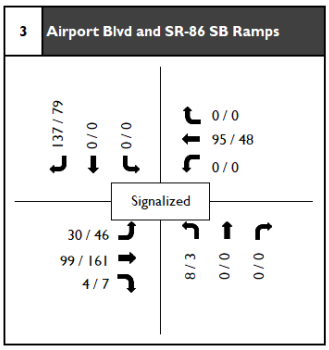
0/0 = (AM/PM) Peak Hour Volumes

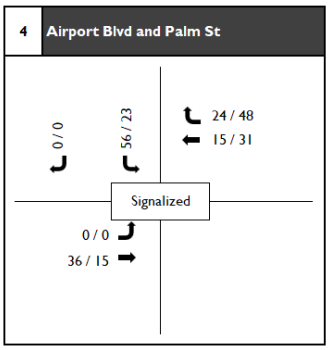
INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

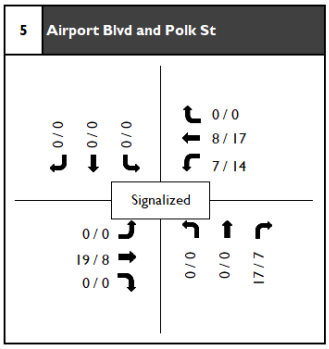
Coachella Airport Business Park
Project Phases I & II
AM/PM Peak Hour Intersection Volumes
Figure 1-4

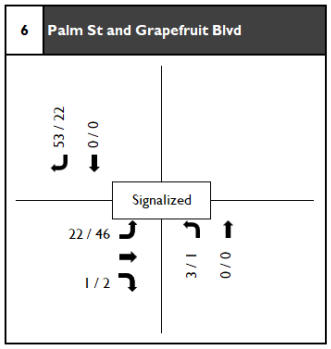


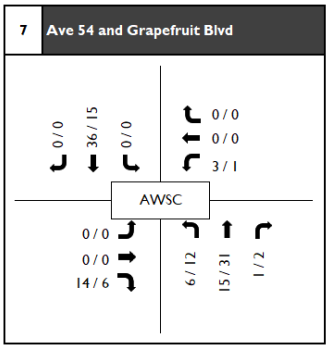


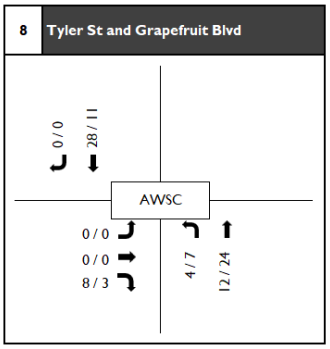


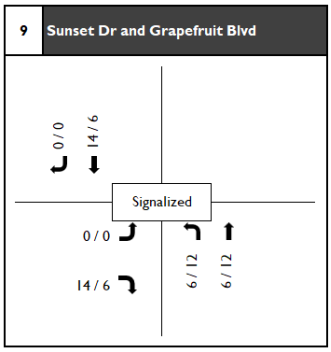


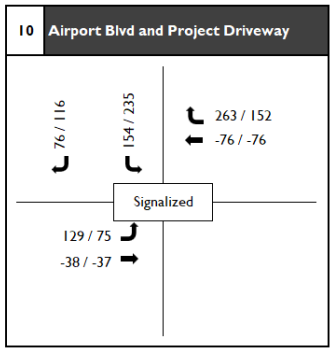












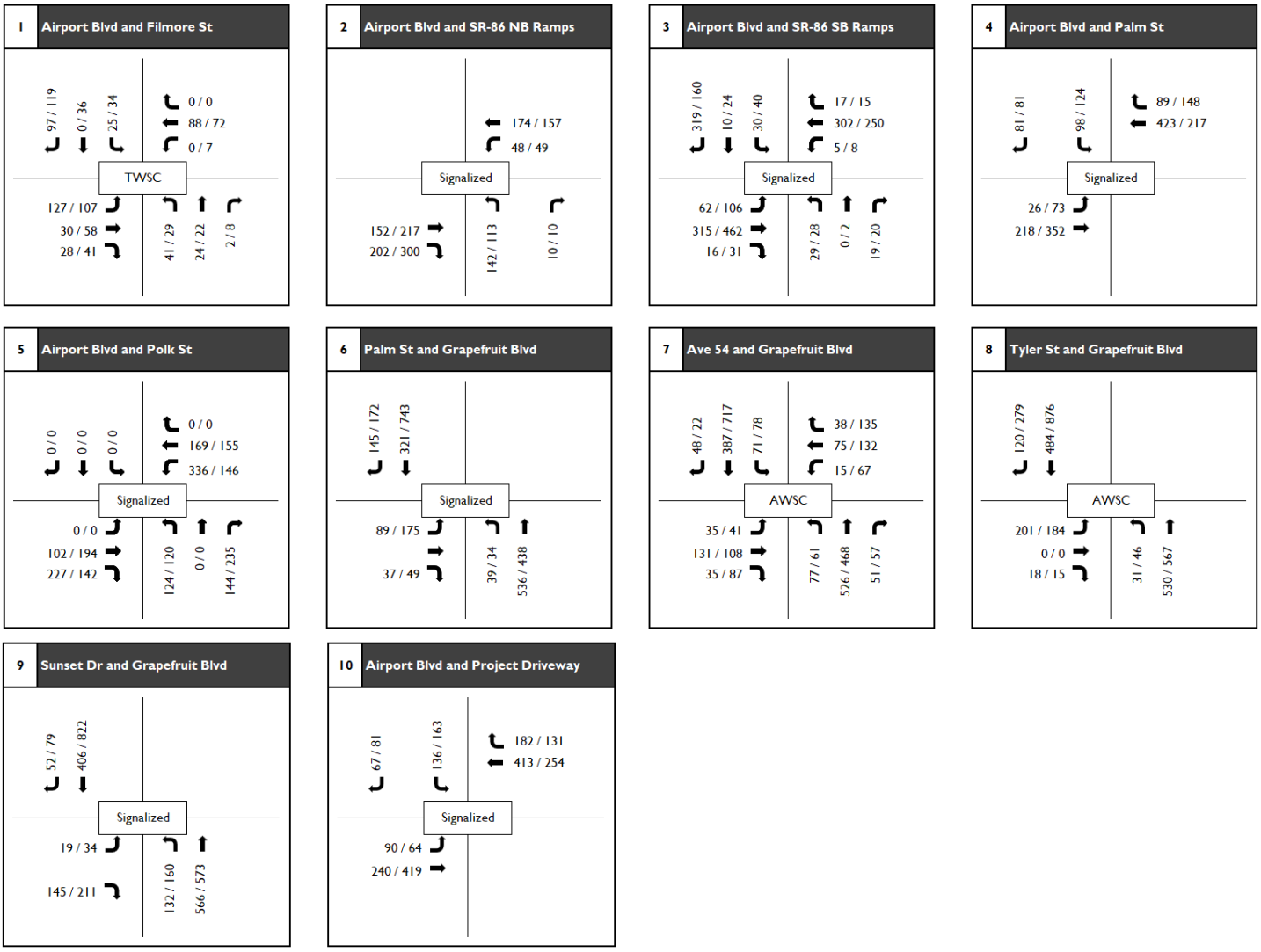
Roadway Segment	Phases I, II & III ADT
Airport Blvd	
SR-86 NB Ramps to SR-86 SB Ramps	2,180
SR-86 SB Ramps to Project Driveway	2,870
Project Driveway to Palm Street	1,410
Palm Street to Polk Street	510
Grapefruit Blvd	
Palm St to Ave 54	810
Ave 54 to Tyler St	560
Tyler St to Sunset Dr	430

LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Project Phases I, II & III
AM/PM Peak Hour Intersection Volumes
Figure 1-5

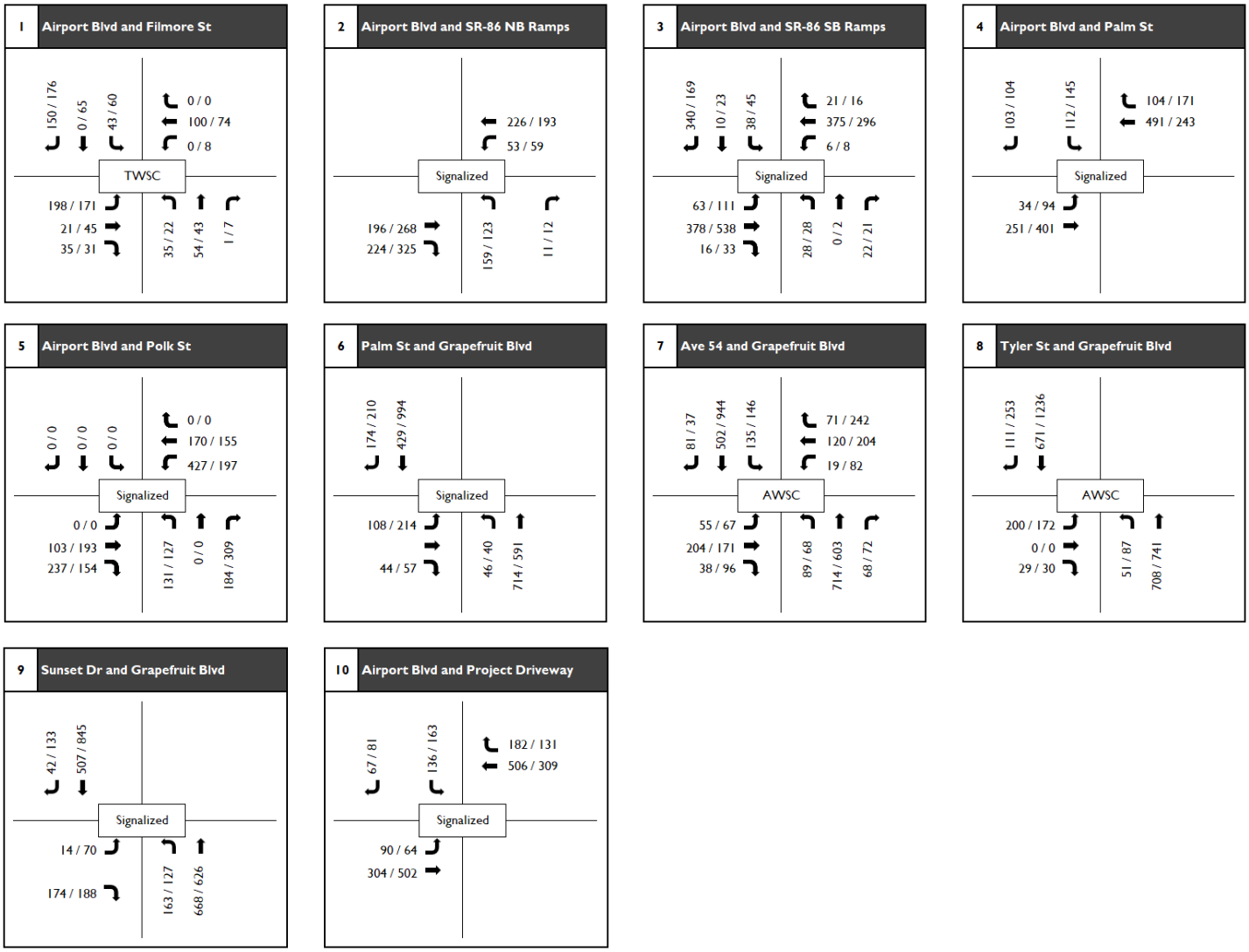


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Opening Year 2027 Plus Project
AM/PM Peak Hour Intersection Volumes
Figure 4-2

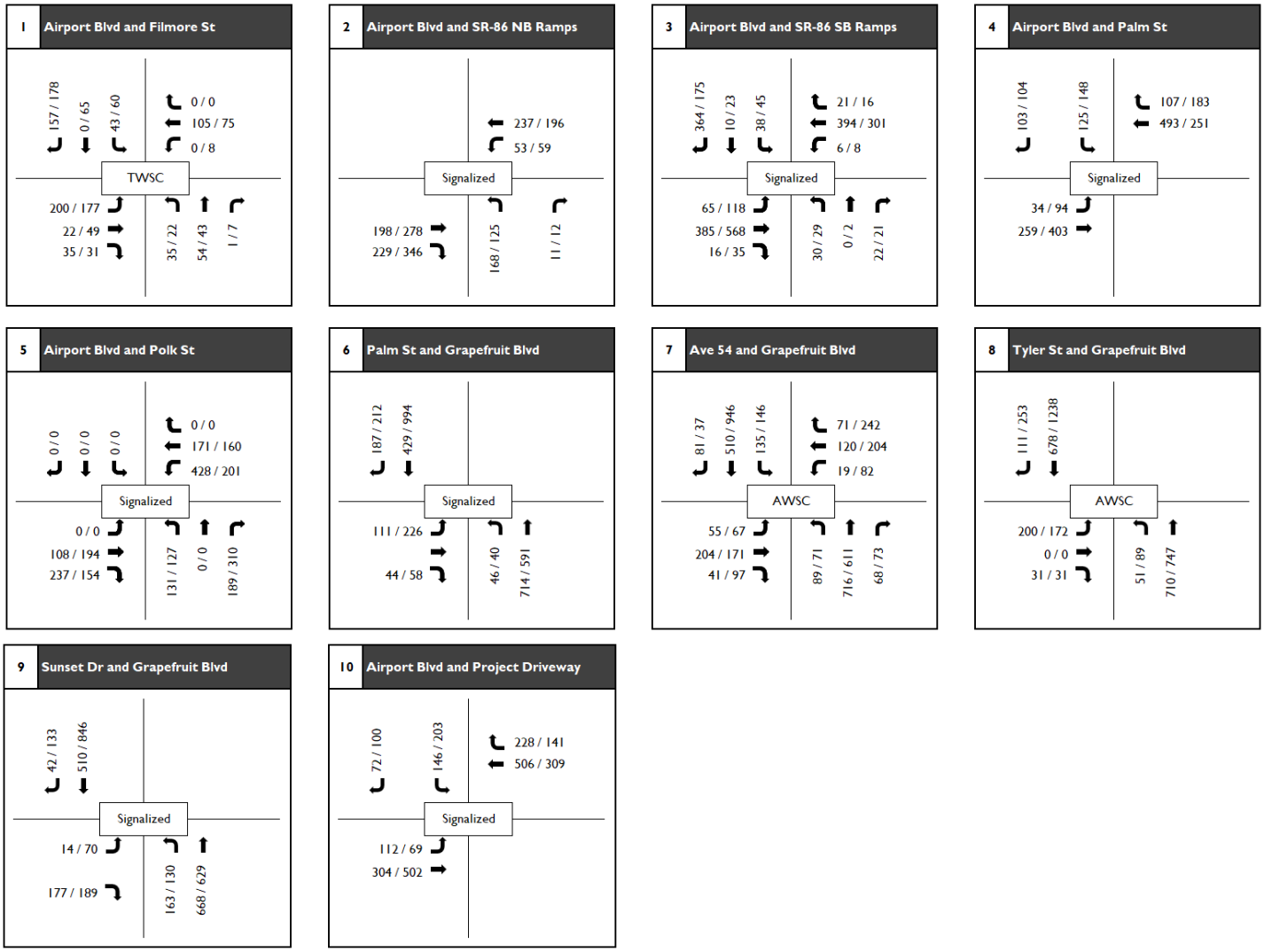


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Opening Year 2030 Baseline
AM/PM Peak Hour Intersection Volumes
Figure 5-1

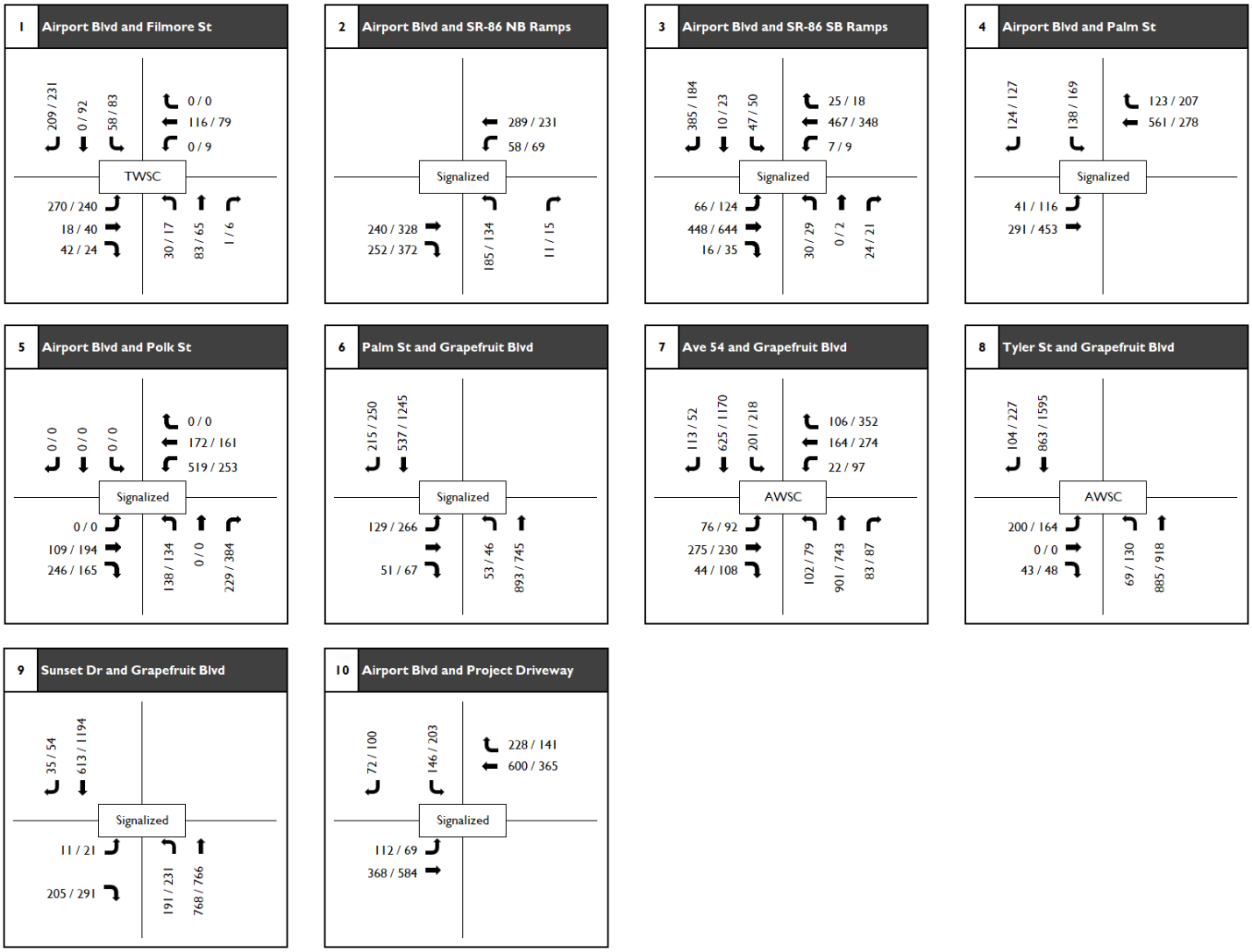


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Opening Year 2030 Plus Project
AM/PM Peak Hour Intersection Volumes
Figure 5-2

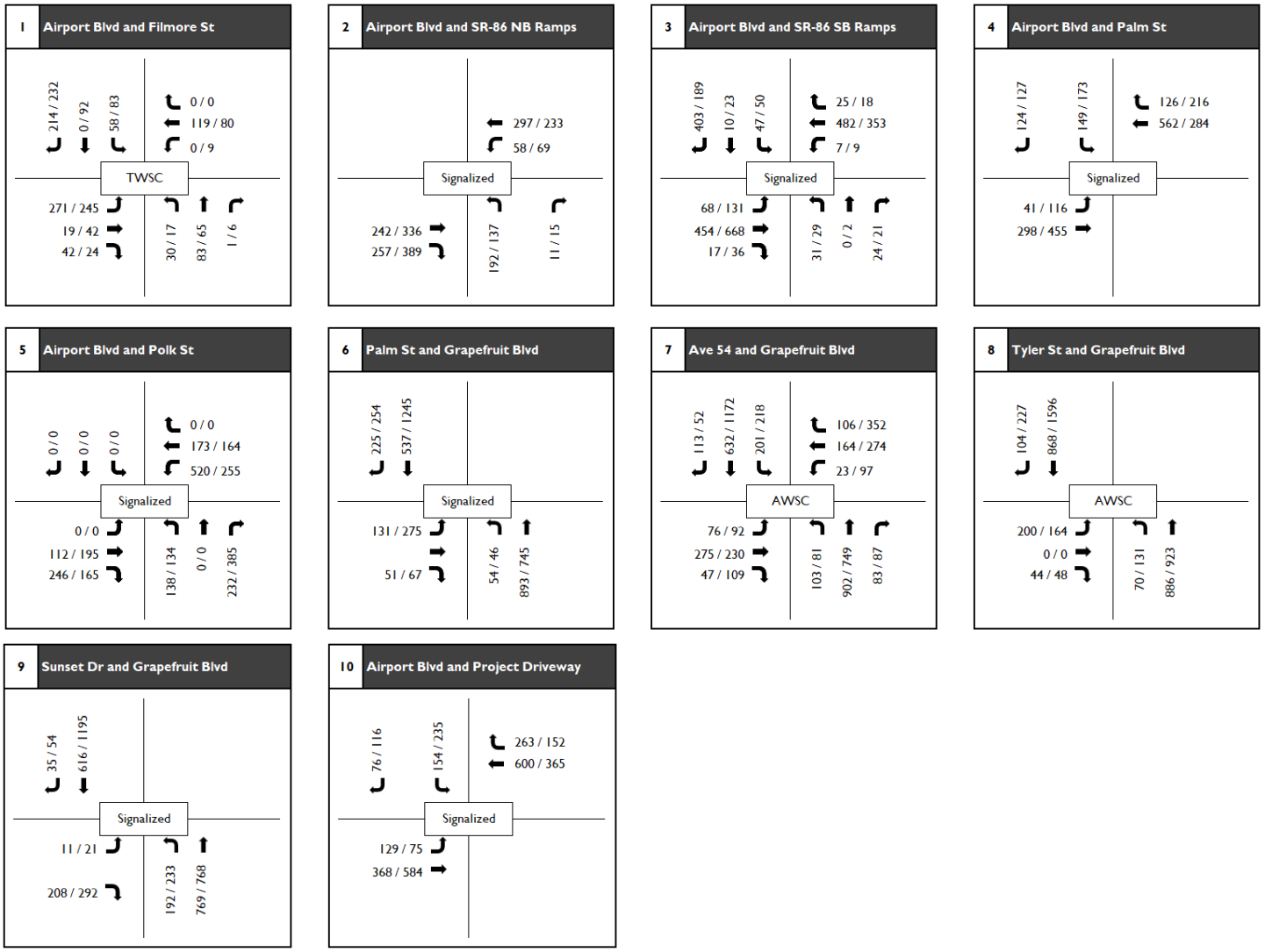


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Opening Year 2033 Baseline
AM/PM Peak Hour Intersection Volumes
Figure 6-1

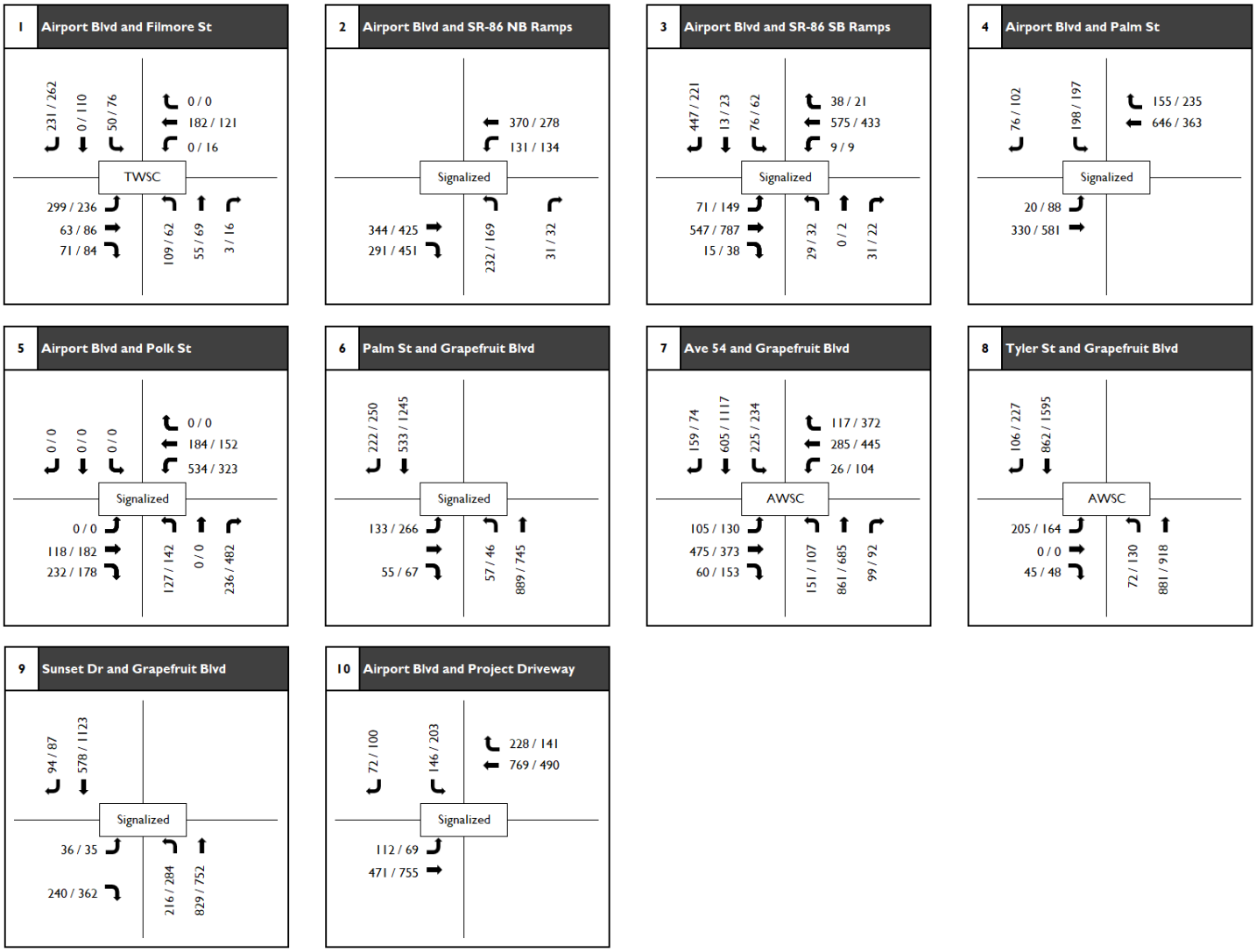


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Opening Year 2033 Plus Project
AM/PM Peak Hour Intersection Volumes
Figure 6-2

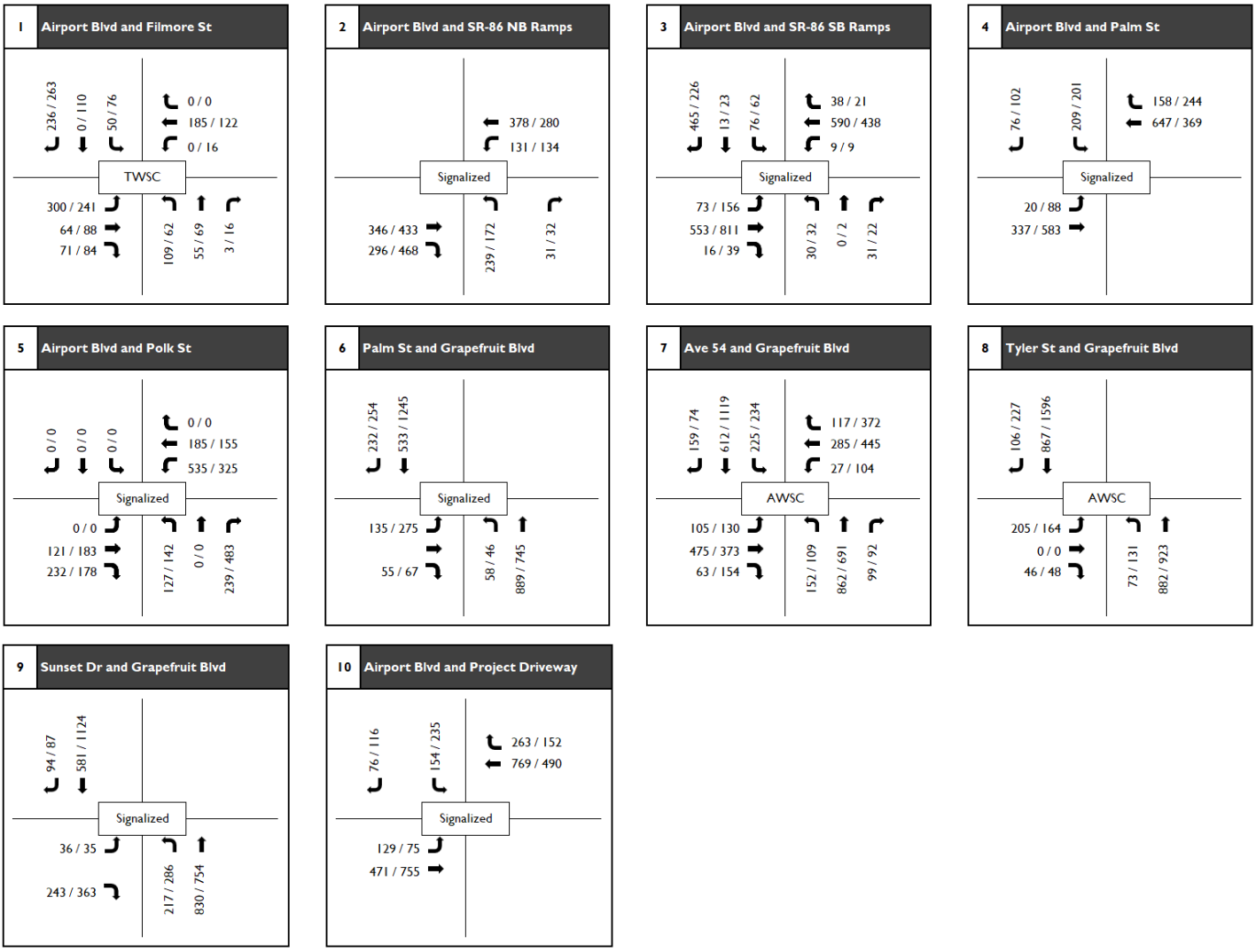


LEGEND

0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Buildout 2045 Baseline
AM/PM Peak Hour Intersection Volumes
Figure 7-1



LEGEND

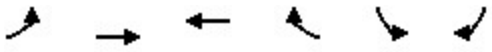
0/0 = (AM/PM) Peak Hour Volumes

INTEGRATED ENGINEERING GROUP
TRANSPORTATION PLANNING AND ENGINEERING

Coachella Airport Business Park
Buildout 2045 Plus Project
AM/PM Peak Hour Intersection Volumes
Figure 7-2

ATTACHMENT B -

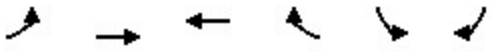
UPDATED INTERSECTION OPERATION ANALYSIS WITH PASS-BY TRIPS WORKSHEETS



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	240	413	127	136	67
Future Volume (veh/h)	90	240	413	127	136	67
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	95	253	435	134	143	71
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	312	793	1318	1117	288	257
Arrive On Green	0.70	0.70	0.70	0.70	0.16	0.16
Sat Flow, veh/h	334	1126	1870	1585	1781	1585
Grp Volume(v), veh/h	348	0	435	134	143	71
Grp Sat Flow(s),veh/h/ln	1460	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	5.4	1.6	4.4	2.4
Cycle Q Clear(g_c), s	5.4	0.0	5.4	1.6	4.4	2.4
Prop In Lane	0.27			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1105	0	1318	1117	288	257
V/C Ratio(X)	0.31	0.00	0.33	0.12	0.50	0.28
Avail Cap(c_a), veh/h	1105	0	1318	1117	594	528
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.85	0.85	1.00	1.00
Uniform Delay (d), s/veh	3.2	0.0	3.4	2.9	22.9	22.1
Incr Delay (d2), s/veh	0.7	0.0	0.6	0.2	1.3	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	1.4	0.4	1.8	0.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.0	0.0	4.0	3.0	24.2	22.6
LnGrp LOS	A		A	A	C	C
Approach Vol, veh/h		348	569		214	
Approach Delay, s/veh		4.0	3.8		23.7	
Approach LOS		A	A		C	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			46.3		13.7	46.3
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			32.0		20.0	32.0
Max Q Clear Time (g_c+I1), s			7.4		6.4	7.4
Green Ext Time (p_c), s			2.6		0.5	3.3

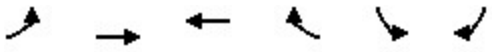
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.6
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	240	413	182	136	67
Future Volume (veh/h)	90	240	413	182	136	67
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	95	253	435	192	143	71
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	306	778	1318	1117	288	257
Arrive On Green	0.70	0.70	0.70	0.70	0.16	0.16
Sat Flow, veh/h	326	1104	1870	1585	1781	1585
Grp Volume(v), veh/h	348	0	435	192	143	71
Grp Sat Flow(s),veh/h/ln	1430	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	5.4	2.4	4.4	2.4
Cycle Q Clear(g_c), s	5.4	0.0	5.4	2.4	4.4	2.4
Prop In Lane	0.27			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1084	0	1318	1117	288	257
V/C Ratio(X)	0.32	0.00	0.33	0.17	0.50	0.28
Avail Cap(c_a), veh/h	1084	0	1318	1117	594	528
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.85	0.85	1.00	1.00
Uniform Delay (d), s/veh	3.2	0.0	3.4	3.0	22.9	22.1
Incr Delay (d2), s/veh	0.8	0.0	0.6	0.3	1.3	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	1.4	0.5	1.8	0.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.0	0.0	4.0	3.3	24.2	22.6
LnGrp LOS	A		A	A	C	C
Approach Vol, veh/h		348	627		214	
Approach Delay, s/veh		4.0	3.8		23.7	
Approach LOS		A	A		C	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			46.3		13.7	46.3
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			32.0		20.0	32.0
Max Q Clear Time (g_c+I1), s			7.4		6.4	7.4
Green Ext Time (p_c), s			2.6		0.5	3.5

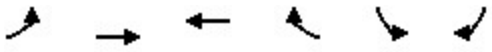
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.4
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	64	419	254	92	163	81
Future Volume (veh/h)	64	419	254	92	163	81
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	70	455	276	100	177	88
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	188	1189	1443	1223	229	203
Arrive On Green	0.77	0.77	1.00	1.00	0.13	0.13
Sat Flow, veh/h	177	1541	1870	1585	1781	1585
Grp Volume(v), veh/h	525	0	276	100	177	88
Grp Sat Flow(s),veh/h/ln	1718	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	7.7	4.1
Cycle Q Clear(g_c), s	7.1	0.0	0.0	0.0	7.7	4.1
Prop In Lane	0.13			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1377	0	1443	1223	229	203
V/C Ratio(X)	0.38	0.00	0.19	0.08	0.77	0.43
Avail Cap(c_a), veh/h	1377	0	1443	1223	468	416
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.92	0.92	1.00	1.00
Uniform Delay (d), s/veh	2.9	0.0	0.0	0.0	33.7	32.2
Incr Delay (d2), s/veh	0.8	0.0	0.3	0.1	5.5	1.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.1	0.0	3.6	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.7	0.0	0.3	0.1	39.3	33.6
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		525	376		265	
Approach Delay, s/veh		3.7	0.2		37.4	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			65.7		14.3	65.7
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			51.0		21.0	51.0
Max Q Clear Time (g_c+I1), s			9.1		9.7	2.0
Green Ext Time (p_c), s			4.1		0.6	2.1

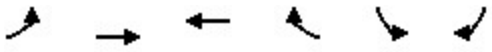
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.2
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	64	419	254	131	163	81
Future Volume (veh/h)	64	419	254	131	163	81
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	70	455	276	142	177	88
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	187	1182	1443	1223	229	203
Arrive On Green	0.77	0.77	1.00	1.00	0.13	0.13
Sat Flow, veh/h	176	1531	1870	1585	1781	1585
Grp Volume(v), veh/h	525	0	276	142	177	88
Grp Sat Flow(s),veh/h/ln	1707	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	7.7	4.1
Cycle Q Clear(g_c), s	7.1	0.0	0.0	0.0	7.7	4.1
Prop In Lane	0.13			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1368	0	1443	1223	229	203
V/C Ratio(X)	0.38	0.00	0.19	0.12	0.77	0.43
Avail Cap(c_a), veh/h	1368	0	1443	1223	468	416
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.92	0.92	1.00	1.00
Uniform Delay (d), s/veh	2.9	0.0	0.0	0.0	33.7	32.2
Incr Delay (d2), s/veh	0.8	0.0	0.3	0.2	5.5	1.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.1	0.1	3.6	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.7	0.0	0.3	0.2	39.3	33.6
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		525	418		265	
Approach Delay, s/veh		3.7	0.2		37.4	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			65.7		14.3	65.7
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			51.0		21.0	51.0
Max Q Clear Time (g_c+I1), s			9.1		9.7	2.0
Green Ext Time (p_c), s			4.2		0.6	2.3

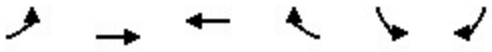
Intersection Summary		
HCM 6th Ctrl Delay, s/veh	9.9	
HCM 6th LOS	A	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	304	506	127	136	67
Future Volume (veh/h)	90	304	506	127	136	67
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	95	320	533	134	143	71
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	278	909	1452	1230	221	196
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	288	1171	1870	1585	1781	1585
Grp Volume(v), veh/h	415	0	533	134	143	71
Grp Sat Flow(s),veh/h/ln	1459	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	6.1	3.3
Cycle Q Clear(g_c), s	5.1	0.0	0.0	0.0	6.1	3.3
Prop In Lane	0.23			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1188	0	1452	1230	221	196
V/C Ratio(X)	0.35	0.00	0.37	0.11	0.65	0.36
Avail Cap(c_a), veh/h	1188	0	1452	1230	490	436
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.82	0.82	1.00	1.00
Uniform Delay (d), s/veh	2.6	0.0	0.0	0.0	33.4	32.1
Incr Delay (d2), s/veh	0.8	0.0	0.6	0.1	3.2	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.2	0.1	2.8	1.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.4	0.0	0.6	0.1	36.6	33.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		415	667		214	
Approach Delay, s/veh		3.4	0.5		35.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			50.0		22.0	50.0
Max Q Clear Time (g_c+I1), s			7.1		8.1	2.0
Green Ext Time (p_c), s			3.5		0.5	4.5

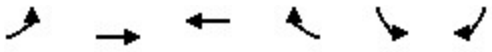
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.2
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	90	304	506	182	136	67
Future Volume (veh/h)	90	304	506	182	136	67
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	95	320	533	192	143	71
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	273	892	1452	1230	221	196
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	281	1149	1870	1585	1781	1585
Grp Volume(v), veh/h	415	0	533	192	143	71
Grp Sat Flow(s),veh/h/ln	1430	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	6.1	3.3
Cycle Q Clear(g_c), s	5.1	0.0	0.0	0.0	6.1	3.3
Prop In Lane	0.23			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1165	0	1452	1230	221	196
V/C Ratio(X)	0.36	0.00	0.37	0.16	0.65	0.36
Avail Cap(c_a), veh/h	1165	0	1452	1230	490	436
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.82	0.82	1.00	1.00
Uniform Delay (d), s/veh	2.6	0.0	0.0	0.0	33.4	32.1
Incr Delay (d2), s/veh	0.9	0.0	0.6	0.2	3.2	1.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.2	0.1	2.8	1.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.4	0.0	0.6	0.2	36.6	33.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		415	725		214	
Approach Delay, s/veh		3.4	0.5		35.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			50.0		22.0	50.0
Max Q Clear Time (g_c+I1), s			7.1		8.1	2.0
Green Ext Time (p_c), s			3.6		0.5	4.7

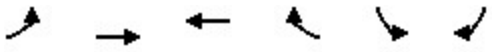
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		6.9
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	64	502	309	92	163	81
Future Volume (veh/h)	64	502	309	92	163	81
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	67	528	325	97	172	85
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	161	1233	1448	1227	224	199
Arrive On Green	0.77	0.77	1.00	1.00	0.13	0.13
Sat Flow, veh/h	143	1593	1870	1585	1781	1585
Grp Volume(v), veh/h	595	0	325	97	172	85
Grp Sat Flow(s),veh/h/ln	1736	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	7.5	4.0
Cycle Q Clear(g_c), s	8.4	0.0	0.0	0.0	7.5	4.0
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1394	0	1448	1227	224	199
V/C Ratio(X)	0.43	0.00	0.22	0.08	0.77	0.43
Avail Cap(c_a), veh/h	1394	0	1448	1227	490	436
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.91	0.91	1.00	1.00
Uniform Delay (d), s/veh	3.0	0.0	0.0	0.0	33.9	32.3
Incr Delay (d2), s/veh	1.0	0.0	0.3	0.1	5.5	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	0.1	0.0	3.5	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.9	0.0	0.3	0.1	39.3	33.8
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		595	422		257	
Approach Delay, s/veh		3.9	0.3		37.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.0		14.0	66.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			50.0		22.0	50.0
Max Q Clear Time (g_c+I1), s			10.4		9.5	2.0
Green Ext Time (p_c), s			4.9		0.6	2.5

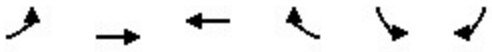
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		9.5
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	64	502	309	131	163	81
Future Volume (veh/h)	64	502	309	131	163	81
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	67	528	325	138	172	85
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	160	1227	1448	1227	224	199
Arrive On Green	0.77	0.77	1.00	1.00	0.13	0.13
Sat Flow, veh/h	142	1584	1870	1585	1781	1585
Grp Volume(v), veh/h	595	0	325	138	172	85
Grp Sat Flow(s),veh/h/ln	1726	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	7.5	4.0
Cycle Q Clear(g_c), s	8.4	0.0	0.0	0.0	7.5	4.0
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1387	0	1448	1227	224	199
V/C Ratio(X)	0.43	0.00	0.22	0.11	0.77	0.43
Avail Cap(c_a), veh/h	1387	0	1448	1227	490	436
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.91	0.91	1.00	1.00
Uniform Delay (d), s/veh	3.0	0.0	0.0	0.0	33.9	32.3
Incr Delay (d2), s/veh	1.0	0.0	0.3	0.2	5.5	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	0.1	0.1	3.5	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.0	0.0	0.3	0.2	39.3	33.8
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		595	463		257	
Approach Delay, s/veh		4.0	0.3		37.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.0		14.0	66.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			50.0		22.0	50.0
Max Q Clear Time (g_c+I1), s			10.4		9.5	2.0
Green Ext Time (p_c), s			4.9		0.6	2.6

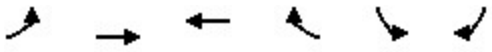
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		9.2
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	304	506	160	146	72
Future Volume (veh/h)	112	304	506	160	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	320	533	168	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	311	815	1451	1230	221	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	327	1050	1870	1585	1781	1585
Grp Volume(v), veh/h	438	0	533	168	154	76
Grp Sat Flow(s),veh/h/ln	1377	0	1870	1585	1781	1585
Q Serve(g_s), s	0.1	0.0	0.0	0.0	6.6	3.5
Cycle Q Clear(g_c), s	5.5	0.0	0.0	0.0	6.6	3.5
Prop In Lane	0.27			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1125	0	1451	1230	221	197
V/C Ratio(X)	0.39	0.00	0.37	0.14	0.70	0.39
Avail Cap(c_a), veh/h	1125	0	1451	1230	468	416
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.79	0.79	1.00	1.00
Uniform Delay (d), s/veh	2.6	0.0	0.0	0.0	33.6	32.2
Incr Delay (d2), s/veh	1.0	0.0	0.6	0.2	3.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.2	0.1	3.0	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.6	0.0	0.6	0.2	37.5	33.5
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		438	701		230	
Approach Delay, s/veh		3.6	0.5		36.2	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			51.0		21.0	51.0
Max Q Clear Time (g_c+I1), s			7.5		8.6	2.0
Green Ext Time (p_c), s			4.0		0.5	4.6

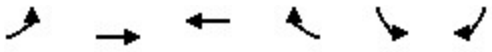
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.5
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	304	506	228	146	72
Future Volume (veh/h)	112	304	506	228	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	320	533	240	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	303	792	1451	1230	221	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	316	1021	1870	1585	1781	1585
Grp Volume(v), veh/h	438	0	533	240	154	76
Grp Sat Flow(s),veh/h/ln	1338	0	1870	1585	1781	1585
Q Serve(g_s), s	0.1	0.0	0.0	0.0	6.6	3.5
Cycle Q Clear(g_c), s	5.5	0.0	0.0	0.0	6.6	3.5
Prop In Lane	0.27			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1095	0	1451	1230	221	197
V/C Ratio(X)	0.40	0.00	0.37	0.20	0.70	0.39
Avail Cap(c_a), veh/h	1095	0	1451	1230	468	416
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.80	0.80	1.00	1.00
Uniform Delay (d), s/veh	2.6	0.0	0.0	0.0	33.6	32.2
Incr Delay (d2), s/veh	1.1	0.0	0.6	0.3	3.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.2	0.1	3.0	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	3.7	0.0	0.6	0.3	37.5	33.5
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		438	773		230	
Approach Delay, s/veh		3.7	0.5		36.2	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			51.0		21.0	51.0
Max Q Clear Time (g_c+I1), s			7.5		8.6	2.0
Green Ext Time (p_c), s			4.1		0.5	5.0

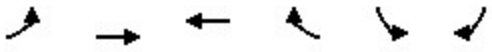
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.2
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	502	309	99	203	100
Future Volume (veh/h)	69	502	309	99	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	528	325	104	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	167	1176	1403	1189	267	237
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	156	1567	1870	1585	1781	1585
Grp Volume(v), veh/h	601	0	325	104	214	105
Grp Sat Flow(s),veh/h/ln	1722	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	9.5	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.12			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1343	0	1403	1189	267	237
V/C Ratio(X)	0.45	0.00	0.23	0.09	0.80	0.44
Avail Cap(c_a), veh/h	1343	0	1403	1189	468	416
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.89	0.89	1.00	1.00
Uniform Delay (d), s/veh	3.7	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	1.1	0.0	0.3	0.1	5.6	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	0.1	0.0	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.8	0.0	0.4	0.1	38.4	32.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		601	429		319	
Approach Delay, s/veh		4.8	0.3		36.4	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.0		16.0	64.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			51.0		21.0	51.0
Max Q Clear Time (g_c+I1), s			11.5		11.3	2.0
Green Ext Time (p_c), s			5.0		0.7	2.5

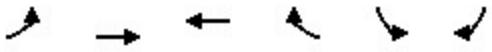
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.8
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	502	309	141	203	100
Future Volume (veh/h)	69	502	309	141	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	528	325	148	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	166	1169	1404	1190	266	237
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	154	1557	1870	1585	1781	1585
Grp Volume(v), veh/h	601	0	325	148	214	105
Grp Sat Flow(s),veh/h/ln	1711	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	9.4	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.12			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1335	0	1404	1190	266	237
V/C Ratio(X)	0.45	0.00	0.23	0.12	0.80	0.44
Avail Cap(c_a), veh/h	1335	0	1404	1190	445	396
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.89	0.89	1.00	1.00
Uniform Delay (d), s/veh	3.7	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	1.1	0.0	0.3	0.2	5.7	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	0.1	0.1	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.8	0.0	0.4	0.2	38.6	32.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		601	473		319	
Approach Delay, s/veh		4.8	0.3		36.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.1		15.9	64.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			52.0		20.0	52.0
Max Q Clear Time (g_c+I1), s			11.4		11.3	2.0
Green Ext Time (p_c), s			5.0		0.7	2.7

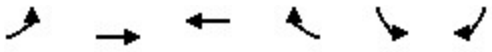
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.5
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	368	600	160	146	72
Future Volume (veh/h)	112	368	600	160	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	387	632	168	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	271	859	1451	1230	221	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	277	1107	1870	1585	1781	1585
Grp Volume(v), veh/h	505	0	632	168	154	76
Grp Sat Flow(s),veh/h/ln	1385	0	1870	1585	1781	1585
Q Serve(g_s), s	0.1	0.0	0.0	0.0	6.6	3.5
Cycle Q Clear(g_c), s	6.7	0.0	0.0	0.0	6.6	3.5
Prop In Lane	0.23			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1130	0	1451	1230	221	197
V/C Ratio(X)	0.45	0.00	0.44	0.14	0.70	0.39
Avail Cap(c_a), veh/h	1130	0	1451	1230	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.77	0.77	1.00	1.00
Uniform Delay (d), s/veh	2.8	0.0	0.0	0.0	33.6	32.2
Incr Delay (d2), s/veh	1.3	0.0	0.7	0.2	3.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.3	0.1	3.0	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.0	0.0	0.7	0.2	37.5	33.5
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		505	800		230	
Approach Delay, s/veh		4.0	0.6		36.2	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			8.7		8.6	2.0
Green Ext Time (p_c), s			4.8		0.5	5.8

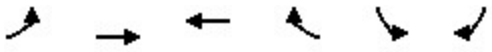
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.1
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	368	600	228	146	72
Future Volume (veh/h)	112	368	600	228	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	387	632	240	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	264	837	1451	1230	221	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	269	1079	1870	1585	1781	1585
Grp Volume(v), veh/h	505	0	632	240	154	76
Grp Sat Flow(s),veh/h/ln	1348	0	1870	1585	1781	1585
Q Serve(g_s), s	0.1	0.0	0.0	0.0	6.6	3.5
Cycle Q Clear(g_c), s	6.7	0.0	0.0	0.0	6.6	3.5
Prop In Lane	0.23			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1101	0	1451	1230	221	197
V/C Ratio(X)	0.46	0.00	0.44	0.20	0.70	0.39
Avail Cap(c_a), veh/h	1101	0	1451	1230	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.74	0.74	1.00	1.00
Uniform Delay (d), s/veh	2.8	0.0	0.0	0.0	33.6	32.2
Incr Delay (d2), s/veh	1.4	0.0	0.7	0.3	3.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.3	0.1	3.0	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.1	0.0	0.7	0.3	37.5	33.5
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		505	872		230	
Approach Delay, s/veh		4.1	0.6		36.2	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			8.7		8.6	2.0
Green Ext Time (p_c), s			5.0		0.5	6.1

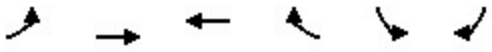
Intersection Summary						
HCM 6th Ctrl Delay, s/veh			6.8			
HCM 6th LOS			A			



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	584	365	99	203	100
Future Volume (veh/h)	69	584	365	99	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	615	384	104	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	147	1203	1404	1190	266	237
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	130	1602	1870	1585	1781	1585
Grp Volume(v), veh/h	688	0	384	104	214	105
Grp Sat Flow(s),veh/h/ln	1733	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	11.6	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1350	0	1404	1190	266	237
V/C Ratio(X)	0.51	0.00	0.27	0.09	0.80	0.44
Avail Cap(c_a), veh/h	1350	0	1404	1190	445	396
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.87	0.87	1.00	1.00
Uniform Delay (d), s/veh	3.9	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	1.4	0.0	0.4	0.1	5.7	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	0.2	0.0	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.3	0.0	0.4	0.1	38.6	32.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		688	488		319	
Approach Delay, s/veh		5.3	0.4		36.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.1		15.9	64.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			52.0		20.0	52.0
Max Q Clear Time (g_c+I1), s			13.6		11.3	2.0
Green Ext Time (p_c), s			6.0		0.7	3.0

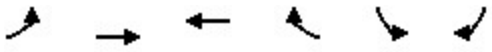
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.4
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	584	365	141	203	100
Future Volume (veh/h)	69	584	365	141	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	615	384	148	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	147	1196	1404	1190	266	237
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	129	1594	1870	1585	1781	1585
Grp Volume(v), veh/h	688	0	384	148	214	105
Grp Sat Flow(s),veh/h/ln	1723	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	11.6	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1343	0	1404	1190	266	237
V/C Ratio(X)	0.51	0.00	0.27	0.12	0.80	0.44
Avail Cap(c_a), veh/h	1343	0	1404	1190	445	396
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.87	0.87	1.00	1.00
Uniform Delay (d), s/veh	3.9	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	1.4	0.0	0.4	0.2	5.7	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	0.2	0.1	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.3	0.0	0.4	0.2	38.6	32.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		688	532		319	
Approach Delay, s/veh		5.3	0.4		36.5	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.1		15.9	64.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			52.0		20.0	52.0
Max Q Clear Time (g_c+I1), s			13.6		11.3	2.0
Green Ext Time (p_c), s			6.1		0.7	3.2

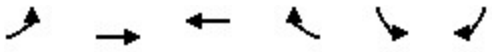
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.1
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	129	368	600	184	154	76
Future Volume (veh/h)	129	368	600	184	154	76
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	136	387	632	194	162	80
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	289	795	1451	1229	222	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	300	1025	1870	1585	1781	1585
Grp Volume(v), veh/h	523	0	632	194	162	80
Grp Sat Flow(s),veh/h/ln	1325	0	1870	1585	1781	1585
Q Serve(g_s), s	2.3	0.0	0.0	0.0	7.0	3.7
Cycle Q Clear(g_c), s	8.0	0.0	0.0	0.0	7.0	3.7
Prop In Lane	0.26			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1084	0	1451	1229	222	197
V/C Ratio(X)	0.48	0.00	0.44	0.16	0.73	0.41
Avail Cap(c_a), veh/h	1084	0	1451	1229	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.71	0.71	1.00	1.00
Uniform Delay (d), s/veh	2.8	0.0	0.0	0.0	33.7	32.3
Incr Delay (d2), s/veh	1.5	0.0	0.7	0.2	4.6	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.3	0.1	3.2	1.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.4	0.0	0.7	0.2	38.3	33.6
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		523	826		242	
Approach Delay, s/veh		4.4	0.6		36.8	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.0		14.0	66.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			10.0		9.0	2.0
Green Ext Time (p_c), s			5.2		0.5	5.9

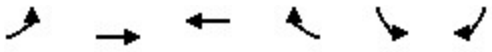
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.3
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	129	368	600	263	154	76
Future Volume (veh/h)	129	368	600	263	154	76
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	136	387	632	277	162	80
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	280	769	1451	1229	222	197
Arrive On Green	0.78	0.78	1.00	1.00	0.12	0.12
Sat Flow, veh/h	288	992	1870	1585	1781	1585
Grp Volume(v), veh/h	523	0	632	277	162	80
Grp Sat Flow(s),veh/h/ln	1280	0	1870	1585	1781	1585
Q Serve(g_s), s	2.5	0.0	0.0	0.0	7.0	3.7
Cycle Q Clear(g_c), s	8.2	0.0	0.0	0.0	7.0	3.7
Prop In Lane	0.26			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1050	0	1451	1229	222	197
V/C Ratio(X)	0.50	0.00	0.44	0.23	0.73	0.41
Avail Cap(c_a), veh/h	1050	0	1451	1229	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.71	0.71	1.00	1.00
Uniform Delay (d), s/veh	2.8	0.0	0.0	0.0	33.7	32.3
Incr Delay (d2), s/veh	1.7	0.0	0.7	0.3	4.6	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.3	0.1	3.2	1.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.5	0.0	0.7	0.3	38.3	33.6
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		523	909		242	
Approach Delay, s/veh		4.5	0.6		36.8	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.0		14.0	66.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			10.2		9.0	2.0
Green Ext Time (p_c), s			5.5		0.5	6.3

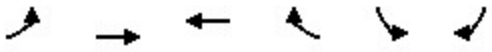
Intersection Summary	
HCM 7th Control Delay, s/veh	7.0
HCM 7th LOS	A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	75	584	365	106	235	116
Future Volume (veh/h)	75	584	365	106	235	116
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	615	384	112	247	122
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	153	1156	1369	1161	299	266
Arrive On Green	0.73	0.73	0.97	0.97	0.17	0.17
Sat Flow, veh/h	141	1578	1870	1585	1781	1585
Grp Volume(v), veh/h	694	0	384	112	247	122
Grp Sat Flow(s),veh/h/ln	1719	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.6	0.2	10.7	5.6
Cycle Q Clear(g_c), s	12.6	0.0	0.6	0.2	10.7	5.6
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1309	0	1369	1161	299	266
V/C Ratio(X)	0.53	0.00	0.28	0.10	0.83	0.46
Avail Cap(c_a), veh/h	1309	0	1369	1161	445	396
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.84	0.84	1.00	1.00
Uniform Delay (d), s/veh	4.6	0.0	0.3	0.3	32.2	30.0
Incr Delay (d2), s/veh	1.5	0.0	0.4	0.1	7.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.3	0.1	5.1	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	6.1	0.0	0.7	0.4	40.0	31.2
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		694	496		369	
Approach Delay, s/veh		6.1	0.7		37.1	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			62.6		17.4	62.6
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			52.0		20.0	52.0
Max Q Clear Time (g_c+I1), s			14.6		12.7	2.6
Green Ext Time (p_c), s			6.1		0.7	3.0

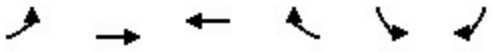
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		11.7
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	75	584	365	152	235	116
Future Volume (veh/h)	75	584	365	152	235	116
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	615	384	160	247	122
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	152	1148	1369	1161	299	266
Arrive On Green	0.73	0.73	0.97	0.97	0.17	0.17
Sat Flow, veh/h	139	1568	1870	1585	1781	1585
Grp Volume(v), veh/h	694	0	384	160	247	122
Grp Sat Flow(s),veh/h/ln	1707	0	1870	1585	1781	1585
Q Serve(g_s), s	0.0	0.0	0.6	0.2	10.7	5.6
Cycle Q Clear(g_c), s	12.6	0.0	0.6	0.2	10.7	5.6
Prop In Lane	0.11			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1300	0	1369	1161	299	266
V/C Ratio(X)	0.53	0.00	0.28	0.14	0.83	0.46
Avail Cap(c_a), veh/h	1300	0	1369	1161	445	396
HCM Platoon Ratio	1.00	1.00	1.33	1.33	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.84	0.84	1.00	1.00
Uniform Delay (d), s/veh	4.6	0.0	0.3	0.3	32.2	30.0
Incr Delay (d2), s/veh	1.6	0.0	0.4	0.2	7.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.3	0.1	5.1	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	6.1	0.0	0.7	0.5	40.0	31.2
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		694	544		369	
Approach Delay, s/veh		6.1	0.7		37.1	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			62.6		17.4	62.6
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			52.0		20.0	52.0
Max Q Clear Time (g_c+I1), s			14.6		12.7	2.6
Green Ext Time (p_c), s			6.2		0.7	3.2

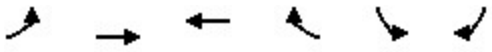
Intersection Summary		
HCM 6th Ctrl Delay, s/veh	11.4	
HCM 6th LOS	B	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	471	769	160	146	72
Future Volume (veh/h)	112	471	769	160	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	496	809	168	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	205	834	1451	1230	221	197
Arrive On Green	0.78	0.78	0.78	0.78	0.12	0.12
Sat Flow, veh/h	196	1076	1870	1585	1781	1585
Grp Volume(v), veh/h	614	0	809	168	154	76
Grp Sat Flow(s),veh/h/ln	1271	0	1870	1585	1781	1585
Q Serve(g_s), s	5.4	0.0	13.7	2.1	6.6	3.5
Cycle Q Clear(g_c), s	19.0	0.0	13.7	2.1	6.6	3.5
Prop In Lane	0.19			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1040	0	1451	1230	221	197
V/C Ratio(X)	0.59	0.00	0.56	0.14	0.70	0.39
Avail Cap(c_a), veh/h	1040	0	1451	1230	423	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.55	0.55	1.00	1.00
Uniform Delay (d), s/veh	3.4	0.0	3.5	2.2	33.6	32.2
Incr Delay (d2), s/veh	2.5	0.0	0.9	0.1	3.9	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	3.3	0.4	3.0	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.9	0.0	4.4	2.4	37.5	33.5
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		614	977		230	
Approach Delay, s/veh		5.9	4.1		36.2	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.1		13.9	66.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			21.0		8.6	15.7
Green Ext Time (p_c), s			6.1		0.5	8.0

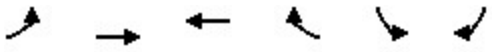
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		8.7
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	112	471	769	228	146	72
Future Volume (veh/h)	112	471	769	228	146	72
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	496	809	240	154	76
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	220	898	1496	1268	198	176
Arrive On Green	0.80	0.80	1.00	1.00	0.11	0.11
Sat Flow, veh/h	215	1122	1870	1585	1781	1585
Grp Volume(v), veh/h	614	0	809	240	154	76
Grp Sat Flow(s),veh/h/ln	1338	0	1870	1585	1781	1585
Q Serve(g_s), s	0.7	0.0	0.0	0.0	7.6	4.0
Cycle Q Clear(g_c), s	9.2	0.0	0.0	0.0	7.6	4.0
Prop In Lane	0.19			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1118	0	1496	1268	198	176
V/C Ratio(X)	0.55	0.00	0.54	0.19	0.78	0.43
Avail Cap(c_a), veh/h	1118	0	1496	1268	376	335
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.54	0.54	1.00	1.00
Uniform Delay (d), s/veh	2.7	0.0	0.0	0.0	38.9	37.4
Incr Delay (d2), s/veh	1.9	0.0	0.8	0.2	6.5	1.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	0.3	0.1	3.6	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	4.6	0.0	0.8	0.2	45.4	39.0
LnGrp LOS	A		A	A	D	D
Approach Vol, veh/h		614	1049		230	
Approach Delay, s/veh		4.6	0.6		43.3	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			76.0		14.0	76.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			63.0		19.0	63.0
Max Q Clear Time (g_c+I1), s			11.2		9.6	2.0
Green Ext Time (p_c), s			6.8		0.5	8.9

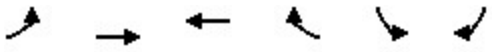
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.1
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	755	490	99	203	100
Future Volume (veh/h)	69	755	490	99	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	795	516	104	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	125	1227	1405	1191	265	236
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	102	1633	1870	1585	1781	1585
Grp Volume(v), veh/h	868	0	516	104	214	105
Grp Sat Flow(s),veh/h/ln	1735	0	1870	1585	1781	1585
Q Serve(g_s), s	0.6	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	17.3	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.08			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1352	0	1405	1191	265	236
V/C Ratio(X)	0.64	0.00	0.37	0.09	0.81	0.45
Avail Cap(c_a), veh/h	1352	0	1405	1191	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.77	0.77	1.00	1.00
Uniform Delay (d), s/veh	4.6	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	2.4	0.0	0.6	0.1	6.0	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	0.0	0.2	0.0	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	7.0	0.0	0.6	0.1	39.0	32.4
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		868	620		319	
Approach Delay, s/veh		7.0	0.5		36.8	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.1		15.9	64.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			19.3		11.3	2.0
Green Ext Time (p_c), s			8.6		0.6	4.2

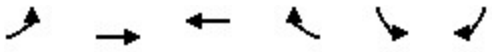
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		10.0
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	755	490	141	203	100
Future Volume (veh/h)	69	755	490	141	203	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	73	795	516	148	214	105
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	125	1221	1405	1191	265	236
Arrive On Green	0.75	0.75	1.00	1.00	0.15	0.15
Sat Flow, veh/h	101	1625	1870	1585	1781	1585
Grp Volume(v), veh/h	868	0	516	148	214	105
Grp Sat Flow(s),veh/h/ln	1726	0	1870	1585	1781	1585
Q Serve(g_s), s	0.6	0.0	0.0	0.0	9.3	4.8
Cycle Q Clear(g_c), s	17.4	0.0	0.0	0.0	9.3	4.8
Prop In Lane	0.08			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1345	0	1405	1191	265	236
V/C Ratio(X)	0.65	0.00	0.37	0.12	0.81	0.45
Avail Cap(c_a), veh/h	1345	0	1405	1191	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.77	0.77	1.00	1.00
Uniform Delay (d), s/veh	4.6	0.0	0.0	0.0	32.9	31.0
Incr Delay (d2), s/veh	2.4	0.0	0.6	0.2	6.0	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	0.0	0.2	0.1	4.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	7.0	0.0	0.6	0.2	39.0	32.4
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		868	664		319	
Approach Delay, s/veh		7.0	0.5		36.8	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			64.1		15.9	64.1
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			19.4		11.3	2.0
Green Ext Time (p_c), s			8.7		0.6	4.4

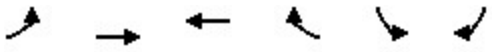
Intersection Summary		
HCM 6th Ctrl Delay, s/veh	9.8	
HCM 6th LOS	A	



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	129	471	769	184	154	76
Future Volume (veh/h)	129	471	769	184	154	76
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	136	496	809	194	162	80
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	217	762	1451	1229	222	197
Arrive On Green	0.78	0.78	0.78	0.78	0.12	0.12
Sat Flow, veh/h	209	982	1870	1585	1781	1585
Grp Volume(v), veh/h	632	0	809	194	162	80
Grp Sat Flow(s),veh/h/ln	1191	0	1870	1585	1781	1585
Q Serve(g_s), s	10.4	0.0	13.7	2.5	7.0	3.7
Cycle Q Clear(g_c), s	24.0	0.0	13.7	2.5	7.0	3.7
Prop In Lane	0.22			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	978	0	1451	1229	222	197
V/C Ratio(X)	0.65	0.00	0.56	0.16	0.73	0.41
Avail Cap(c_a), veh/h	978	0	1451	1229	423	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.50	0.50	1.00	1.00
Uniform Delay (d), s/veh	4.2	0.0	3.6	2.3	33.7	32.3
Incr Delay (d2), s/veh	3.3	0.0	0.8	0.1	4.6	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	3.3	0.5	3.2	1.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	7.5	0.0	4.3	2.4	38.3	33.6
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		632	1003		242	
Approach Delay, s/veh		7.5	4.0		36.8	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			66.0		14.0	66.0
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			26.0		9.0	15.7
Green Ext Time (p_c), s			6.3		0.5	8.2

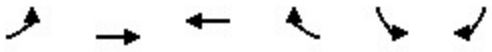
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		9.4
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	129	471	769	263	154	76
Future Volume (veh/h)	129	471	769	263	154	76
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	136	496	809	277	162	80
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	233	824	1488	1261	206	183
Arrive On Green	0.80	0.80	1.00	1.00	0.12	0.12
Sat Flow, veh/h	232	1036	1870	1585	1781	1585
Grp Volume(v), veh/h	632	0	809	277	162	80
Grp Sat Flow(s),veh/h/ln	1268	0	1870	1585	1781	1585
Q Serve(g_s), s	4.6	0.0	0.0	0.0	8.0	4.2
Cycle Q Clear(g_c), s	11.9	0.0	0.0	0.0	8.0	4.2
Prop In Lane	0.22			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1057	0	1488	1261	206	183
V/C Ratio(X)	0.60	0.00	0.54	0.22	0.79	0.44
Avail Cap(c_a), veh/h	1057	0	1488	1261	376	335
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.50	0.50	1.00	1.00
Uniform Delay (d), s/veh	2.9	0.0	0.0	0.0	38.7	37.1
Incr Delay (d2), s/veh	2.5	0.0	0.7	0.2	6.5	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	0.3	0.1	3.8	1.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	5.4	0.0	0.7	0.2	45.2	38.7
LnGrp LOS	A		A	A	D	D
Approach Vol, veh/h		632	1086		242	
Approach Delay, s/veh		5.4	0.6		43.1	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			75.6		14.4	75.6
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			63.0		19.0	63.0
Max Q Clear Time (g_c+I1), s			13.9		10.0	2.0
Green Ext Time (p_c), s			7.5		0.5	9.1

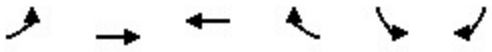
Intersection Summary		
HCM 6th Ctrl Delay, s/veh		7.4
HCM 6th LOS		A



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	75	755	490	106	235	116
Future Volume (veh/h)	75	755	490	106	235	116
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	795	516	112	247	122
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	131	1179	1371	1162	298	265
Arrive On Green	0.73	0.73	1.00	1.00	0.17	0.17
Sat Flow, veh/h	112	1609	1870	1585	1781	1585
Grp Volume(v), veh/h	874	0	516	112	247	122
Grp Sat Flow(s),veh/h/ln	1720	0	1870	1585	1781	1585
Q Serve(g_s), s	4.4	0.0	0.0	0.0	10.7	5.6
Cycle Q Clear(g_c), s	19.6	0.0	0.0	0.0	10.7	5.6
Prop In Lane	0.09			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1310	0	1371	1162	298	265
V/C Ratio(X)	0.67	0.00	0.38	0.10	0.83	0.46
Avail Cap(c_a), veh/h	1310	0	1371	1162	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.77	0.77	1.00	1.00
Uniform Delay (d), s/veh	5.4	0.0	0.0	0.0	32.2	30.1
Incr Delay (d2), s/veh	2.7	0.0	0.6	0.1	9.1	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	0.0	0.2	0.0	5.2	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	8.1	0.0	0.6	0.1	41.4	31.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		874	628		369	
Approach Delay, s/veh		8.1	0.5		38.0	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			62.6		17.4	62.6
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			21.6		12.7	2.0
Green Ext Time (p_c), s			8.6		0.6	4.2

Intersection Summary		
HCM 6th Ctrl Delay, s/veh		11.5
HCM 6th LOS		B



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	75	755	490	152	235	116
Future Volume (veh/h)	75	755	490	152	235	116
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	795	516	160	247	122
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	130	1172	1371	1162	298	265
Arrive On Green	0.73	0.73	1.00	1.00	0.17	0.17
Sat Flow, veh/h	111	1599	1870	1585	1781	1585
Grp Volume(v), veh/h	874	0	516	160	247	122
Grp Sat Flow(s),veh/h/ln	1710	0	1870	1585	1781	1585
Q Serve(g_s), s	4.5	0.0	0.0	0.0	10.7	5.6
Cycle Q Clear(g_c), s	19.7	0.0	0.0	0.0	10.7	5.6
Prop In Lane	0.09			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	1302	0	1371	1162	298	265
V/C Ratio(X)	0.67	0.00	0.38	0.14	0.83	0.46
Avail Cap(c_a), veh/h	1302	0	1371	1162	423	376
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.77	0.77	1.00	1.00
Uniform Delay (d), s/veh	5.4	0.0	0.0	0.0	32.2	30.1
Incr Delay (d2), s/veh	2.8	0.0	0.6	0.2	9.1	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	0.0	0.2	0.1	5.2	2.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	8.2	0.0	0.6	0.2	41.4	31.3
LnGrp LOS	A		A	A	D	C
Approach Vol, veh/h		874	676		369	
Approach Delay, s/veh		8.2	0.5		38.0	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			62.6		17.4	62.6
Change Period (Y+Rc), s			4.0		4.0	4.0
Max Green Setting (Gmax), s			53.0		19.0	53.0
Max Q Clear Time (g_c+I1), s			21.7		12.7	2.0
Green Ext Time (p_c), s			8.7		0.6	4.4

Intersection Summary		
HCM 6th Ctrl Delay, s/veh		11.2
HCM 6th LOS		B

ATTACHMENT C -

TRUCK TRAFFIC INFORMATION AND UPDATED INTERSECTION OPERATION ANALYSIS

WITH HEAVY VEHICLE SHARE WORKSHEETS

TRUCK NETWORKS on California State Highways

DISTRICT 8

Map 8 of 12

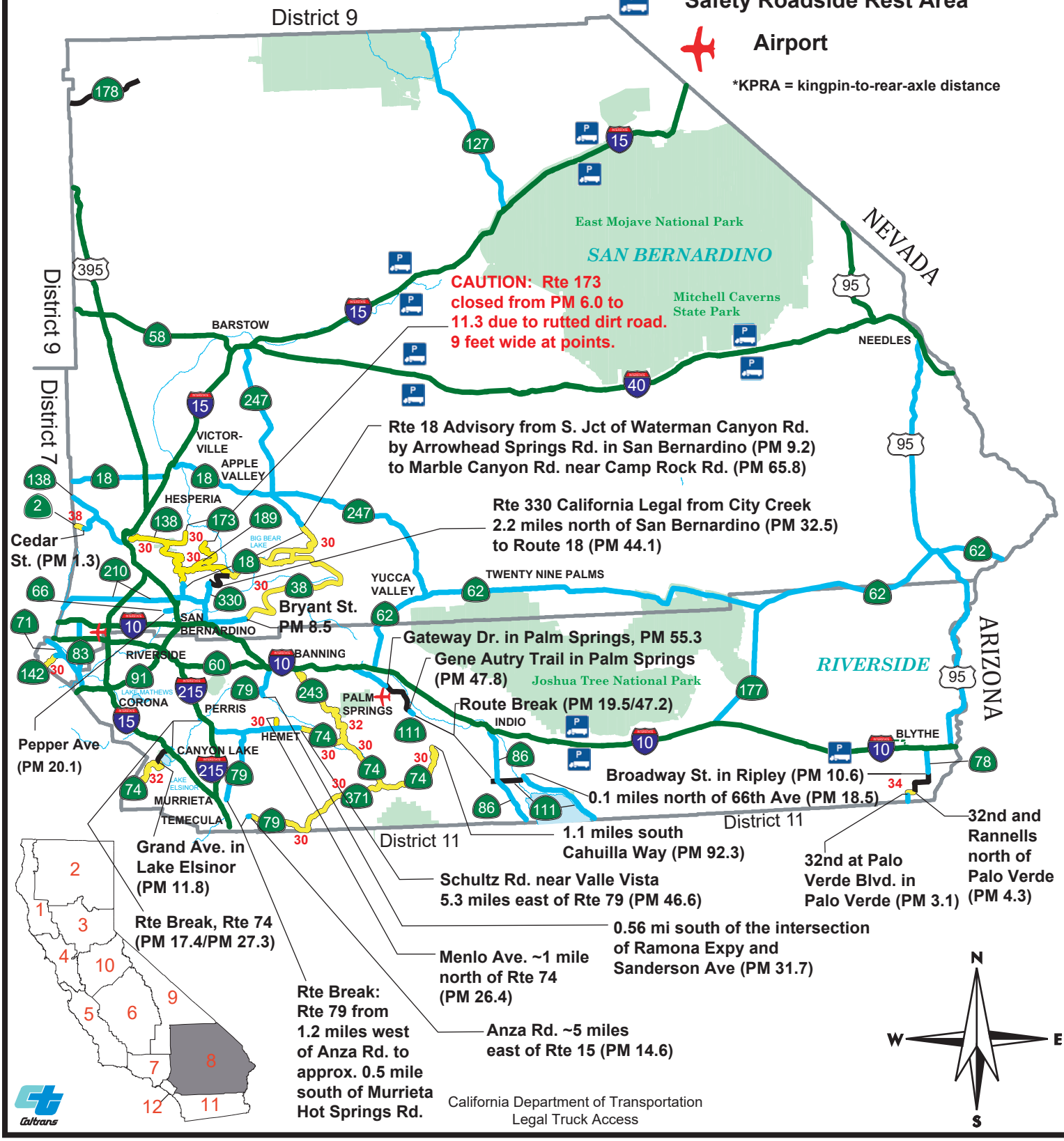
Not to scale

Last revised March 2, 2023

LEGEND (CLICK HERE FOR MORE DETAILED LEGEND)

- National Network (STAA)
- Terminal Access (STAA)
- 65' California Legal Route
- 65' Ca Legal *KPRA Advisory
- 30 *KPRA Advisory
- Safety Roadside Rest Area
- Airport

*KPRA = kingpin-to-rear-axle distance



California Department of Transportation
Legal Truck Access

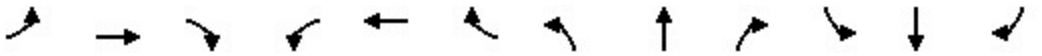
RTE	RTE_SFX	DIST	CNTY	PM_PFX	POSTMILE	PM_SFX	LEG	DESCRIPTION	VEHICLE_AADT_TOTAL	TOT_TRK_AADT	TRK_PERCENT_TOT	TRK_2_AXLE	TRK_2_AXLE_PCT	TRK_3_AXLE	TRK_3_AXLE_PCT	TRK_4_AXLE	TRK_4_AXLE_PCT	TRK_5_AXLE	TRK_5_AXLE_PCT	EAL	EST_YEAR	EST_CODE
086		08	RIV	R	16.74	B		AIRPORT BLVD	28000	5387	19.24	1119	20.77	219	4.07	90	1.67	3959	73.49	1438	18	V



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	152	202	48	174	142	10
Future Volume (veh/h)	152	202	48	174	142	10
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	160	213	51	183	149	11
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	421	560	119	1331	239	246
Arrive On Green	0.58	0.58	0.07	0.71	0.16	0.16
Sat Flow, veh/h	728	969	1781	1870	1541	1585
Grp Volume(v), veh/h	0	373	51	183	149	11
Grp Sat Flow(s),veh/h/ln	0	1696	1781	1870	1541	1585
Q Serve(g_s), s	0.0	7.1	1.7	1.9	5.4	0.4
Cycle Q Clear(g_c), s	0.0	7.1	1.7	1.9	5.4	0.4
Prop In Lane		0.57	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	980	119	1331	239	246
V/C Ratio(X)	0.00	0.38	0.43	0.14	0.62	0.04
Avail Cap(c_a), veh/h	0	980	208	1331	308	317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.97	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	6.8	26.9	2.8	23.7	21.6
Incr Delay (d2), s/veh	0.0	1.1	2.4	0.2	2.7	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.0	0.7	0.3	2.0	0.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	7.9	29.3	3.0	26.4	21.6
LnGrp LOS		A	C	A	C	C
Approach Vol, veh/h	373			234	160	
Approach Delay, s/veh	7.9			8.7	26.0	
Approach LOS	A			A	C	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.3	8.0	38.7		46.7
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		12.0	7.0	29.0		40.0
Max Q Clear Time (g_c+I1), s		7.4	3.7	9.1		3.9
Green Ext Time (p_c), s		0.2	0.0	2.1		0.9

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	12.0
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	62	315	16	5	302	17	29	0	19	30	10	319
Future Volume (veh/h)	62	315	16	5	302	17	29	0	19	30	10	319
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	65	332	17	5	318	18	31	0	20	32	11	336
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	79	824	42	12	741	42	61	0	40	358	123	366
Arrive On Green	0.05	0.47	0.47	0.01	0.42	0.42	0.06	0.00	0.06	0.27	0.27	0.27
Sat Flow, veh/h	1541	1764	90	1781	1753	99	1033	0	666	1342	461	1372
Grp Volume(v), veh/h	65	0	349	5	0	336	51	0	0	43	0	336
Grp Sat Flow(s),veh/h/ln	1541	0	1854	1781	0	1852	1699	0	0	1803	0	1372
Q Serve(g_s), s	3.3	0.0	9.9	0.2	0.0	10.2	2.3	0.0	0.0	1.4	0.0	19.0
Cycle Q Clear(g_c), s	3.3	0.0	9.9	0.2	0.0	10.2	2.3	0.0	0.0	1.4	0.0	19.0
Prop In Lane	1.00		0.05	1.00		0.05	0.61		0.39	0.74		1.00
Lane Grp Cap(c), veh/h	79	0	866	12	0	783	101	0	0	481	0	366
V/C Ratio(X)	0.82	0.00	0.40	0.43	0.00	0.43	0.51	0.00	0.00	0.09	0.00	0.92
Avail Cap(c_a), veh/h	154	0	866	111	0	783	149	0	0	518	0	394
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.95	0.00	0.95	0.96	0.00	0.96	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	37.6	0.0	14.0	39.6	0.0	16.3	36.5	0.0	0.0	22.0	0.0	28.5
Incr Delay (d2), s/veh	17.7	0.0	1.3	21.9	0.0	1.6	3.9	0.0	0.0	0.1	0.0	25.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.0	4.2	0.2	0.0	4.2	1.0	0.0	0.0	0.6	0.0	8.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	55.3	0.0	15.3	61.5	0.0	17.9	40.4	0.0	0.0	22.1	0.0	53.7
LnGrp LOS	E		B	E		B	D			C		D
Approach Vol, veh/h		414			341			51			379	
Approach Delay, s/veh		21.6			18.6			40.4			50.1	
Approach LOS		C			B			D			D	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		8.7	4.5	41.4		25.3	8.1	37.8				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	29.0		23.0	8.0	26.0				
Max Q Clear Time (g_c+I1), s		4.3	2.2	11.9		21.0	5.3	12.2				
Green Ext Time (p_c), s		0.0	0.0	1.9		0.3	0.0	1.5				

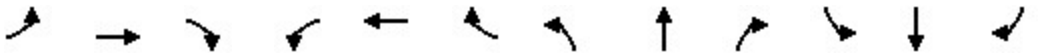
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			30.6									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	217	300	49	157	113	10
Future Volume (veh/h)	217	300	49	157	113	10
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	247	341	56	178	128	11
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	475	656	111	1460	184	189
Arrive On Green	1.00	1.00	0.06	0.78	0.12	0.12
Sat Flow, veh/h	711	982	1781	1870	1541	1585
Grp Volume(v), veh/h	0	588	56	178	128	11
Grp Sat Flow(s),veh/h/ln	0	1693	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.4	1.8	6.4	0.5
Cycle Q Clear(g_c), s	0.0	0.0	2.4	1.8	6.4	0.5
Prop In Lane		0.58	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1131	111	1460	184	189
V/C Ratio(X)	0.00	0.52	0.50	0.12	0.70	0.06
Avail Cap(c_a), veh/h	0	1131	156	1460	270	277
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.88	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.3	2.1	33.8	31.2
Incr Delay (d2), s/veh	0.0	1.5	3.5	0.2	4.7	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	1.1	0.3	2.6	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.5	39.8	2.3	38.5	31.4
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	588			234	139	
Approach Delay, s/veh	1.5			11.3	38.0	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.5	9.0	57.5		66.5
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		14.0	7.0	47.0		58.0
Max Q Clear Time (g_c+I1), s		8.4	4.4	2.0		3.8
Green Ext Time (p_c), s		0.2	0.0	4.3		1.0

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	9.2
HCM 6th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	106	462	31	8	250	15	28	2	20	40	24	160
Future Volume (veh/h)	106	462	31	8	250	15	28	2	20	40	24	160
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	115	502	34	9	272	16	30	2	22	43	26	174
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	140	990	67	28	869	51	82	5	60	141	85	171
Arrive On Green	0.18	1.00	1.00	0.03	0.99	0.99	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1732	117	1781	1749	103	944	63	692	1130	683	1372
Grp Volume(v), veh/h	115	0	536	9	0	288	54	0	0	69	0	174
Grp Sat Flow(s),veh/h/ln	1541	0	1849	1781	0	1852	1699	0	0	1814	0	1372
Q Serve(g_s), s	5.7	0.0	0.0	0.4	0.0	0.1	2.4	0.0	0.0	2.8	0.0	10.0
Cycle Q Clear(g_c), s	5.7	0.0	0.0	0.4	0.0	0.1	2.4	0.0	0.0	2.8	0.0	10.0
Prop In Lane	1.00		0.06	1.00		0.06	0.56		0.41	0.62		1.00
Lane Grp Cap(c), veh/h	140	0	1057	28	0	920	148	0	0	227	0	171
V/C Ratio(X)	0.82	0.00	0.51	0.32	0.00	0.31	0.36	0.00	0.00	0.30	0.00	1.01
Avail Cap(c_a), veh/h	250	0	1057	156	0	920	318	0	0	227	0	171
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.89	0.00	0.89	0.96	0.00	0.96	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.1	0.0	0.0	38.3	0.0	0.1	34.4	0.0	0.0	31.8	0.0	35.0
Incr Delay (d2), s/veh	10.2	0.0	1.5	6.1	0.0	0.9	1.5	0.0	0.0	0.7	0.0	72.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	0.5	0.2	0.0	0.2	1.0	0.0	0.0	1.2	0.0	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	42.4	0.0	1.5	44.4	0.0	1.0	35.9	0.0	0.0	32.6	0.0	107.7
LnGrp LOS	D		A	D		A	D			C		F
Approach Vol, veh/h		651			297			54			243	
Approach Delay, s/veh		8.8			2.3			35.9			86.4	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.0	5.3	49.7		14.0	11.2	43.8				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		15.0	7.0	32.0		10.0	13.0	26.0				
Max Q Clear Time (g_c+I1), s		4.4	2.4	2.0		12.0	7.7	2.1				
Green Ext Time (p_c), s		0.1	0.0	3.9		0.0	0.1	1.5				

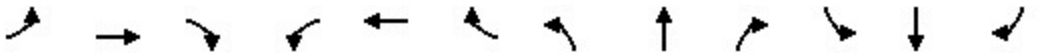
Intersection Summary	
HCM 6th Ctrl Delay, s/veh	23.5
HCM 6th LOS	C



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	196	224	53	226	159	11
Future Volume (veh/h)	196	224	53	226	159	11
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	206	236	56	238	167	12
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	521	597	111	1436	204	209
Arrive On Green	1.00	1.00	0.06	0.77	0.13	0.13
Sat Flow, veh/h	795	911	1781	1870	1541	1585
Grp Volume(v), veh/h	0	442	56	238	167	12
Grp Sat Flow(s),veh/h/ln	0	1706	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.4	2.7	8.4	0.5
Cycle Q Clear(g_c), s	0.0	0.0	2.4	2.7	8.4	0.5
Prop In Lane		0.53	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1119	111	1436	204	209
V/C Ratio(X)	0.00	0.40	0.50	0.17	0.82	0.06
Avail Cap(c_a), veh/h	0	1119	178	1436	385	396
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.94	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.3	2.5	33.8	30.4
Incr Delay (d2), s/veh	0.0	1.0	3.5	0.2	7.9	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	1.1	0.5	3.5	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.0	39.8	2.7	41.7	30.5
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	442			294	179	
Approach Delay, s/veh	1.0			9.8	41.0	
Approach LOS	A			A	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		14.6	9.0	56.5		65.4
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		20.0	8.0	40.0		52.0
Max Q Clear Time (g_c+I1), s		10.4	4.4	2.0		4.7
Green Ext Time (p_c), s		0.3	0.0	2.9		1.3

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	11.6
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	378	16	6	375	21	28	0	22	38	10	340
Future Volume (veh/h)	63	378	16	6	375	21	28	0	22	38	10	340
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	66	398	17	6	395	22	29	0	23	40	11	358
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	80	814	35	14	725	40	56	0	45	388	107	377
Arrive On Green	0.10	0.91	0.91	0.02	0.83	0.83	0.06	0.00	0.06	0.28	0.28	0.28
Sat Flow, veh/h	1541	1780	76	1781	1755	98	942	0	747	1412	388	1372
Grp Volume(v), veh/h	66	0	415	6	0	417	52	0	0	51	0	358
Grp Sat Flow(s),veh/h/ln	1541	0	1856	1781	0	1852	1689	0	0	1800	0	1372
Q Serve(g_s), s	3.4	0.0	2.8	0.3	0.0	5.7	2.4	0.0	0.0	1.7	0.0	20.5
Cycle Q Clear(g_c), s	3.4	0.0	2.8	0.3	0.0	5.7	2.4	0.0	0.0	1.7	0.0	20.5
Prop In Lane	1.00		0.04	1.00		0.05	0.56		0.44	0.78		1.00
Lane Grp Cap(c), veh/h	80	0	849	14	0	766	101	0	0	495	0	377
V/C Ratio(X)	0.83	0.00	0.49	0.43	0.00	0.54	0.51	0.00	0.00	0.10	0.00	0.95
Avail Cap(c_a), veh/h	135	0	849	111	0	766	148	0	0	495	0	377
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.92	0.00	0.92	0.94	0.00	0.94	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	35.5	0.0	2.0	39.2	0.0	4.6	36.5	0.0	0.0	21.6	0.0	28.5
Incr Delay (d2), s/veh	17.6	0.0	1.9	18.6	0.0	2.6	4.0	0.0	0.0	0.1	0.0	33.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.0	1.1	0.2	0.0	1.8	1.0	0.0	0.0	0.7	0.0	9.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	53.2	0.0	3.8	57.8	0.0	7.2	40.5	0.0	0.0	21.7	0.0	61.8
LnGrp LOS	D		A	E		A	D			C		E
Approach Vol, veh/h		481			423			52			409	
Approach Delay, s/veh		10.6			7.9			40.5			56.8	
Approach LOS		B			A			D			E	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		8.8	4.6	40.6		26.0	8.1	37.1				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	30.0		22.0	7.0	28.0				
Max Q Clear Time (g_c+I1), s		4.4	2.3	4.8		22.5	5.4	7.7				
Green Ext Time (p_c), s		0.0	0.0	2.7		0.0	0.0	2.2				

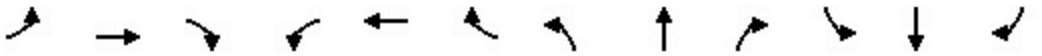
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			24.7									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	268	325	59	193	123	12
Future Volume (veh/h)	268	325	59	193	123	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	282	342	62	203	129	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	512	620	117	1459	184	190
Arrive On Green	1.00	1.00	0.07	0.78	0.12	0.12
Sat Flow, veh/h	769	933	1781	1870	1541	1585
Grp Volume(v), veh/h	0	624	62	203	129	13
Grp Sat Flow(s),veh/h/ln	0	1702	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.7	2.1	6.4	0.6
Cycle Q Clear(g_c), s	0.0	0.0	2.7	2.1	6.4	0.6
Prop In Lane		0.55	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1132	117	1459	184	190
V/C Ratio(X)	0.00	0.55	0.53	0.14	0.70	0.07
Avail Cap(c_a), veh/h	0	1132	156	1459	270	277
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.83	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	2.2	33.8	31.3
Incr Delay (d2), s/veh	0.0	1.6	3.7	0.2	4.7	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	1.2	0.4	2.6	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.6	39.9	2.4	38.6	31.4
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	624			265	142	
Approach Delay, s/veh	1.6			11.2	37.9	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.6	9.2	57.2		66.4
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		14.0	7.0	47.0		58.0
Max Q Clear Time (g_c+I1), s		8.4	4.7	2.0		4.1
Green Ext Time (p_c), s		0.2	0.0	4.6		1.1

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	9.1
HCM 6th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	111	538	33	8	296	16	28	2	21	45	23	169
Future Volume (veh/h)	111	538	33	8	296	16	28	2	21	45	23	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	117	566	35	8	312	17	29	2	22	47	24	178
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	142	1001	62	25	872	48	80	6	61	150	76	171
Arrive On Green	0.18	1.00	1.00	0.03	0.99	0.99	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1743	108	1781	1757	96	929	64	704	1198	612	1372
Grp Volume(v), veh/h	117	0	601	8	0	329	53	0	0	71	0	178
Grp Sat Flow(s),veh/h/ln	1541	0	1851	1781	0	1853	1697	0	0	1810	0	1372
Q Serve(g_s), s	5.8	0.0	0.0	0.4	0.0	0.2	2.4	0.0	0.0	2.9	0.0	10.0
Cycle Q Clear(g_c), s	5.8	0.0	0.0	0.4	0.0	0.2	2.4	0.0	0.0	2.9	0.0	10.0
Prop In Lane	1.00		0.06	1.00		0.05	0.55		0.42	0.66		1.00
Lane Grp Cap(c), veh/h	142	0	1063	25	0	920	147	0	0	226	0	171
V/C Ratio(X)	0.82	0.00	0.57	0.32	0.00	0.36	0.36	0.00	0.00	0.31	0.00	1.04
Avail Cap(c_a), veh/h	250	0	1063	156	0	920	297	0	0	226	0	171
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.00	0.86	0.96	0.00	0.96	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.0	0.0	0.0	38.5	0.0	0.1	34.5	0.0	0.0	31.9	0.0	35.0
Incr Delay (d2), s/veh	9.9	0.0	1.9	6.6	0.0	1.0	1.5	0.0	0.0	0.8	0.0	79.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	0.6	0.2	0.0	0.3	1.0	0.0	0.0	1.3	0.0	6.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	41.9	0.0	1.9	45.1	0.0	1.2	35.9	0.0	0.0	32.7	0.0	114.2
LnGrp LOS	D		A	D		A	D			C		F
Approach Vol, veh/h		718			337			53			249	
Approach Delay, s/veh		8.4			2.2			35.9			90.9	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		10.9	5.1	49.9		14.0	11.4	43.7				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		14.0	7.0	33.0		10.0	13.0	27.0				
Max Q Clear Time (g_c+I1), s		4.4	2.4	2.0		12.0	7.8	2.2				
Green Ext Time (p_c), s		0.1	0.0	4.5		0.0	0.1	1.8				

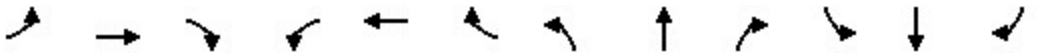
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			23.1									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	198	229	53	237	168	11
Future Volume (veh/h)	198	229	53	237	168	11
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	208	241	56	249	177	12
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	513	594	111	1424	214	220
Arrive On Green	1.00	1.00	0.06	0.76	0.14	0.14
Sat Flow, veh/h	790	915	1781	1870	1541	1585
Grp Volume(v), veh/h	0	449	56	249	177	12
Grp Sat Flow(s),veh/h/ln	0	1706	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.4	2.9	8.9	0.5
Cycle Q Clear(g_c), s	0.0	0.0	2.4	2.9	8.9	0.5
Prop In Lane		0.54	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1107	111	1424	214	220
V/C Ratio(X)	0.00	0.41	0.50	0.17	0.83	0.05
Avail Cap(c_a), veh/h	0	1107	156	1424	385	396
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.94	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.3	2.6	33.5	29.9
Incr Delay (d2), s/veh	0.0	1.0	3.5	0.3	7.9	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.3	1.1	0.6	3.7	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.0	39.8	2.9	41.4	30.0
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	449			305	189	
Approach Delay, s/veh	1.0			9.7	40.7	
Approach LOS	A			A	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		15.1	9.0	55.9		64.9
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		20.0	7.0	41.0		52.0
Max Q Clear Time (g_c+I1), s		10.9	4.4	2.0		4.9
Green Ext Time (p_c), s		0.3	0.0	3.0		1.4

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	11.8
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	65	385	16	6	394	21	30	0	22	38	10	364
Future Volume (veh/h)	65	385	16	6	394	21	30	0	22	38	10	364
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	68	405	17	6	415	22	32	0	23	40	11	383
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	82	834	35	14	743	39	61	0	44	371	102	360
Arrive On Green	0.11	0.94	0.94	0.02	0.84	0.84	0.06	0.00	0.06	0.26	0.26	0.26
Sat Flow, veh/h	1541	1782	75	1781	1760	93	985	0	708	1412	388	1372
Grp Volume(v), veh/h	68	0	422	6	0	437	55	0	0	51	0	383
Grp Sat Flow(s),veh/h/ln	1541	0	1857	1781	0	1853	1694	0	0	1800	0	1372
Q Serve(g_s), s	3.5	0.0	2.1	0.3	0.0	5.5	2.5	0.0	0.0	1.7	0.0	21.0
Cycle Q Clear(g_c), s	3.5	0.0	2.1	0.3	0.0	5.5	2.5	0.0	0.0	1.7	0.0	21.0
Prop In Lane	1.00		0.04	1.00		0.05	0.58		0.42	0.78		1.00
Lane Grp Cap(c), veh/h	82	0	869	14	0	783	105	0	0	472	0	360
V/C Ratio(X)	0.83	0.00	0.49	0.43	0.00	0.56	0.53	0.00	0.00	0.11	0.00	1.06
Avail Cap(c_a), veh/h	154	0	869	111	0	783	148	0	0	472	0	360
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.89	0.00	0.89	0.93	0.00	0.93	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	35.4	0.0	1.4	39.2	0.0	4.0	36.4	0.0	0.0	22.4	0.0	29.5
Incr Delay (d2), s/veh	16.5	0.0	1.7	18.4	0.0	2.7	4.1	0.0	0.0	0.1	0.0	65.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.0	0.9	0.2	0.0	1.7	1.1	0.0	0.0	0.7	0.0	12.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	51.8	0.0	3.2	57.6	0.0	6.7	40.4	0.0	0.0	22.5	0.0	94.8
LnGrp LOS	D		A	E		A	D			C		F
Approach Vol, veh/h		490			443			55			434	
Approach Delay, s/veh		9.9			7.4			40.4			86.3	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		8.9	4.6	41.4		25.0	8.3	37.8				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	31.0		21.0	8.0	28.0				
Max Q Clear Time (g_c+I1), s		4.5	2.3	4.1		23.0	5.5	7.5				
Green Ext Time (p_c), s		0.0	0.0	2.8		0.0	0.0	2.4				

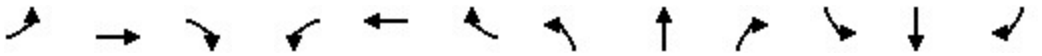
Intersection Summary	
HCM 6th Ctrl Delay, s/veh	33.6
HCM 6th LOS	C



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	278	346	59	196	125	12
Future Volume (veh/h)	278	346	59	196	125	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	293	364	62	206	132	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	504	626	117	1459	185	190
Arrive On Green	1.00	1.00	0.07	0.78	0.12	0.12
Sat Flow, veh/h	758	942	1781	1870	1541	1585
Grp Volume(v), veh/h	0	657	62	206	132	13
Grp Sat Flow(s),veh/h/ln	0	1701	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.7	2.2	6.6	0.6
Cycle Q Clear(g_c), s	0.0	0.0	2.7	2.2	6.6	0.6
Prop In Lane		0.55	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1130	117	1459	185	190
V/C Ratio(X)	0.00	0.58	0.53	0.14	0.71	0.07
Avail Cap(c_a), veh/h	0	1130	156	1459	270	277
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.79	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	2.2	33.9	31.2
Incr Delay (d2), s/veh	0.0	1.7	3.7	0.2	5.0	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	1.2	0.4	2.7	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.7	39.9	2.4	38.9	31.4
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	657			268	145	
Approach Delay, s/veh	1.7			11.1	38.2	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.6	9.2	57.2		66.4
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		14.0	7.0	47.0		58.0
Max Q Clear Time (g_c+I1), s		8.6	4.7	2.0		4.2
Green Ext Time (p_c), s		0.2	0.0	5.0		1.1

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	9.0
HCM 6th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	118	568	35	8	301	16	29	2	21	45	23	175
Future Volume (veh/h)	118	568	35	8	301	16	29	2	21	45	23	175
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	124	598	37	8	317	17	31	2	22	47	24	184
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	150	998	62	25	861	46	84	5	60	150	76	171
Arrive On Green	0.19	1.00	1.00	0.03	0.98	0.98	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1743	108	1781	1759	94	958	62	680	1198	612	1372
Grp Volume(v), veh/h	124	0	635	8	0	334	55	0	0	71	0	184
Grp Sat Flow(s),veh/h/ln	1541	0	1851	1781	0	1853	1700	0	0	1810	0	1372
Q Serve(g_s), s	6.2	0.0	0.0	0.4	0.0	0.5	2.4	0.0	0.0	2.9	0.0	10.0
Cycle Q Clear(g_c), s	6.2	0.0	0.0	0.4	0.0	0.5	2.4	0.0	0.0	2.9	0.0	10.0
Prop In Lane	1.00		0.06	1.00		0.05	0.56		0.40	0.66		1.00
Lane Grp Cap(c), veh/h	150	0	1060	25	0	907	150	0	0	226	0	171
V/C Ratio(X)	0.83	0.00	0.60	0.32	0.00	0.37	0.37	0.00	0.00	0.31	0.00	1.07
Avail Cap(c_a), veh/h	270	0	1060	156	0	907	255	0	0	226	0	171
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.83	0.00	0.83	0.96	0.00	0.96	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.6	0.0	0.0	38.5	0.0	0.4	34.4	0.0	0.0	31.9	0.0	35.0
Incr Delay (d2), s/veh	9.2	0.0	2.1	6.6	0.0	1.1	1.5	0.0	0.0	0.8	0.0	89.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.6	0.2	0.0	0.4	1.0	0.0	0.0	1.3	0.0	7.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	40.7	0.0	2.1	45.1	0.0	1.5	35.9	0.0	0.0	32.7	0.0	124.6
LnGrp LOS	D		A	D		A	D			C		F
Approach Vol, veh/h		759			342			55			255	
Approach Delay, s/veh		8.4			2.6			35.9			99.0	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.1	5.1	49.8		14.0	11.8	43.2				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		12.0	7.0	35.0		10.0	14.0	28.0				
Max Q Clear Time (g_c+I1), s		4.4	2.4	2.0		12.0	8.2	2.5				
Green Ext Time (p_c), s		0.1	0.0	5.0		0.0	0.1	1.8				

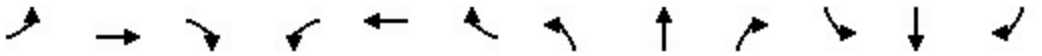
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			24.4									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	240	252	58	289	185	11
Future Volume (veh/h)	240	252	58	289	185	11
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	253	265	61	304	195	12
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	531	556	116	1402	232	239
Arrive On Green	1.00	1.00	0.06	0.75	0.15	0.15
Sat Flow, veh/h	836	876	1781	1870	1541	1585
Grp Volume(v), veh/h	0	518	61	304	195	12
Grp Sat Flow(s),veh/h/ln	0	1713	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	2.7	3.9	9.8	0.5
Cycle Q Clear(g_c), s	0.0	0.0	2.7	3.9	9.8	0.5
Prop In Lane		0.51	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1087	116	1402	232	239
V/C Ratio(X)	0.00	0.48	0.53	0.22	0.84	0.05
Avail Cap(c_a), veh/h	0	1087	156	1402	366	376
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.91	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	3.0	33.0	29.1
Incr Delay (d2), s/veh	0.0	1.4	3.7	0.4	9.6	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.4	1.2	0.9	4.2	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.4	39.9	3.4	42.6	29.2
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	518			365	207	
Approach Delay, s/veh	1.4			9.5	41.8	
Approach LOS	A			A	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		16.1	9.2	54.8		63.9
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		19.0	7.0	42.0		53.0
Max Q Clear Time (g_c+I1), s		11.8	4.7	2.0		5.9
Green Ext Time (p_c), s		0.3	0.0	3.5		1.7

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	11.8
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	66	448	16	7	467	25	30	0	24	47	10	385
Future Volume (veh/h)	66	448	16	7	467	25	30	0	24	47	10	385
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	69	472	17	7	492	26	32	0	25	49	11	405
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	84	880	32	16	784	41	60	0	47	349	78	326
Arrive On Green	0.11	0.98	0.98	0.02	0.89	0.89	0.06	0.00	0.06	0.24	0.24	0.24
Sat Flow, veh/h	1541	1794	65	1781	1760	93	949	0	741	1468	329	1372
Grp Volume(v), veh/h	69	0	489	7	0	518	57	0	0	60	0	405
Grp Sat Flow(s),veh/h/ln	1541	0	1859	1781	0	1853	1690	0	0	1797	0	1372
Q Serve(g_s), s	3.5	0.0	0.8	0.3	0.0	5.5	2.6	0.0	0.0	2.1	0.0	19.0
Cycle Q Clear(g_c), s	3.5	0.0	0.8	0.3	0.0	5.5	2.6	0.0	0.0	2.1	0.0	19.0
Prop In Lane	1.00		0.03	1.00		0.05	0.56		0.44	0.82		1.00
Lane Grp Cap(c), veh/h	84	0	912	16	0	826	106	0	0	427	0	326
V/C Ratio(X)	0.83	0.00	0.54	0.44	0.00	0.63	0.54	0.00	0.00	0.14	0.00	1.24
Avail Cap(c_a), veh/h	154	0	912	111	0	826	148	0	0	427	0	326
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.00	0.86	0.92	0.00	0.92	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	35.3	0.0	0.4	39.1	0.0	2.7	36.4	0.0	0.0	24.1	0.0	30.5
Incr Delay (d2), s/veh	15.8	0.0	1.9	16.2	0.0	3.3	4.2	0.0	0.0	0.1	0.0	132.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.0	0.6	0.2	0.0	1.7	1.1	0.0	0.0	0.9	0.0	17.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	51.0	0.0	2.3	55.3	0.0	6.0	40.5	0.0	0.0	24.2	0.0	163.3
LnGrp LOS	D		A	E		A	D			C		F
Approach Vol, veh/h		558			525			57			465	
Approach Delay, s/veh		8.4			6.7			40.5			145.3	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.0	4.7	43.3		23.0	8.3	39.6				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	33.0		19.0	8.0	30.0				
Max Q Clear Time (g_c+I1), s		4.6	2.3	2.8		21.0	5.5	7.5				
Green Ext Time (p_c), s		0.0	0.0	3.4		0.0	0.0	3.0				

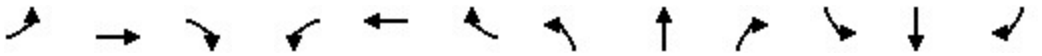
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			48.6									
HCM 6th LOS			D									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	328	372	69	231	134	15
Future Volume (veh/h)	328	372	69	231	134	15
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	345	392	73	243	141	16
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	526	598	125	1457	187	192
Arrive On Green	1.00	1.00	0.07	0.78	0.12	0.12
Sat Flow, veh/h	799	908	1781	1870	1541	1585
Grp Volume(v), veh/h	0	737	73	243	141	16
Grp Sat Flow(s),veh/h/ln	0	1707	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	3.2	2.6	7.1	0.7
Cycle Q Clear(g_c), s	0.0	0.0	3.2	2.6	7.1	0.7
Prop In Lane		0.53	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1124	125	1457	187	192
V/C Ratio(X)	0.00	0.66	0.58	0.17	0.75	0.08
Avail Cap(c_a), veh/h	0	1124	156	1457	250	258
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.72	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.1	2.2	34.0	31.2
Incr Delay (d2), s/veh	0.0	2.2	4.3	0.2	8.7	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.7	1.4	0.5	3.0	0.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	2.2	40.3	2.5	42.7	31.4
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	737			316	157	
Approach Delay, s/veh	2.2			11.2	41.5	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.7	9.6	56.7		66.3
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		13.0	7.0	48.0		59.0
Max Q Clear Time (g_c+I1), s		9.1	5.2	2.0		4.6
Green Ext Time (p_c), s		0.1	0.0	6.0		1.3

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	9.6
HCM 6th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	124	644	35	9	348	18	29	2	21	50	23	184
Future Volume (veh/h)	124	644	35	9	348	18	29	2	21	50	23	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	131	678	37	9	366	19	31	2	22	53	24	194
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	158	1003	55	28	854	44	84	5	60	156	70	171
Arrive On Green	0.20	1.00	1.00	0.03	0.97	0.97	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1757	96	1781	1762	91	958	62	680	1245	564	1372
Grp Volume(v), veh/h	131	0	715	9	0	385	55	0	0	77	0	194
Grp Sat Flow(s),veh/h/ln	1541	0	1853	1781	0	1854	1700	0	0	1808	0	1372
Q Serve(g_s), s	6.5	0.0	0.0	0.4	0.0	0.9	2.4	0.0	0.0	3.1	0.0	10.0
Cycle Q Clear(g_c), s	6.5	0.0	0.0	0.4	0.0	0.9	2.4	0.0	0.0	3.1	0.0	10.0
Prop In Lane	1.00		0.05	1.00		0.05	0.56		0.40	0.69		1.00
Lane Grp Cap(c), veh/h	158	0	1058	28	0	898	150	0	0	226	0	171
V/C Ratio(X)	0.83	0.00	0.68	0.32	0.00	0.43	0.37	0.00	0.00	0.34	0.00	1.13
Avail Cap(c_a), veh/h	270	0	1058	156	0	898	234	0	0	226	0	171
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.79	0.00	0.79	0.95	0.00	0.95	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.1	0.0	0.0	38.3	0.0	0.7	34.4	0.0	0.0	32.0	0.0	35.0
Incr Delay (d2), s/veh	8.6	0.0	2.8	6.0	0.0	1.4	1.5	0.0	0.0	0.9	0.0	108.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	0.8	0.2	0.0	0.5	1.0	0.0	0.0	1.4	0.0	8.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	39.7	0.0	2.8	44.3	0.0	2.1	35.9	0.0	0.0	32.9	0.0	143.5
LnGrp LOS	D		A	D		A	D			C		F
Approach Vol, veh/h		846			394			55			271	
Approach Delay, s/veh		8.5			3.0			35.9			112.1	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.1	5.3	49.7		14.0	12.2	42.8				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		11.0	7.0	36.0		10.0	14.0	29.0				
Max Q Clear Time (g_c+I1), s		4.4	2.4	2.0		12.0	8.5	2.9				
Green Ext Time (p_c), s		0.1	0.0	5.9		0.0	0.1	2.1				

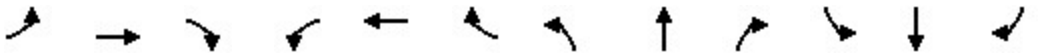
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			26.0									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	242	257	58	297	192	11
Future Volume (veh/h)	242	257	58	297	192	11
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	255	271	61	313	202	12
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	537	570	116	1425	246	219
Arrive On Green	1.00	1.00	0.06	0.76	0.14	0.14
Sat Flow, veh/h	830	882	1781	1870	1781	1585
Grp Volume(v), veh/h	0	526	61	313	202	12
Grp Sat Flow(s),veh/h/ln	0	1712	1781	1870	1781	1585
Q Serve(g_s), s	0.0	0.0	2.7	3.8	8.8	0.5
Cycle Q Clear(g_c), s	0.0	0.0	2.7	3.8	8.8	0.5
Prop In Lane		0.52	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1107	116	1425	246	219
V/C Ratio(X)	0.00	0.48	0.53	0.22	0.82	0.05
Avail Cap(c_a), veh/h	0	1107	156	1425	401	357
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.91	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	2.7	33.5	29.9
Incr Delay (d2), s/veh	0.0	1.3	3.7	0.4	6.8	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.4	1.2	0.8	4.2	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	1.3	39.9	3.1	40.3	30.0
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	526			374	214	
Approach Delay, s/veh	1.3			9.1	39.8	
Approach LOS	A			A	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		15.1	9.2	55.7		64.9
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		18.0	7.0	43.0		54.0
Max Q Clear Time (g_c+I1), s		10.8	4.7	2.0		5.8
Green Ext Time (p_c), s		0.3	0.0	3.6		1.8

Intersection Summary	
HCM 7th Control Delay, s/veh	11.3
HCM 7th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	454	17	7	482	25	31	0	24	47	10	403
Future Volume (veh/h)	68	454	17	7	482	25	31	0	24	47	10	403
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	72	478	18	7	507	26	33	0	25	49	11	424
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	87	855	32	16	759	39	61	0	46	367	82	343
Arrive On Green	0.11	0.96	0.96	0.02	0.86	0.86	0.06	0.00	0.06	0.25	0.25	0.25
Sat Flow, veh/h	1541	1791	67	1781	1763	90	962	0	729	1468	329	1372
Grp Volume(v), veh/h	72	0	496	7	0	533	58	0	0	60	0	424
Grp Sat Flow(s),veh/h/ln	1541	0	1858	1781	0	1854	1691	0	0	1797	0	1372
Q Serve(g_s), s	3.7	0.0	2.1	0.3	0.0	7.6	2.7	0.0	0.0	2.1	0.0	20.0
Cycle Q Clear(g_c), s	3.7	0.0	2.1	0.3	0.0	7.6	2.7	0.0	0.0	2.1	0.0	20.0
Prop In Lane	1.00		0.04	1.00		0.05	0.57		0.43	0.82		1.00
Lane Grp Cap(c), veh/h	87	0	887	16	0	797	107	0	0	449	0	343
V/C Ratio(X)	0.83	0.00	0.56	0.44	0.00	0.67	0.54	0.00	0.00	0.13	0.00	1.24
Avail Cap(c_a), veh/h	116	0	887	111	0	797	148	0	0	449	0	343
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.83	0.00	0.83	0.92	0.00	0.92	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	35.1	0.0	1.0	39.1	0.0	3.7	36.3	0.0	0.0	23.3	0.0	30.0
Incr Delay (d2), s/veh	25.3	0.0	2.1	16.2	0.0	4.1	4.2	0.0	0.0	0.1	0.0	129.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.9	0.2	0.0	2.2	1.2	0.0	0.0	0.9	0.0	18.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	60.4	0.0	3.1	55.3	0.0	7.8	40.5	0.0	0.0	23.4	0.0	159.1
LnGrp LOS	E		A	E		A	D			C		F
Approach Vol, veh/h		568			540			58			484	
Approach Delay, s/veh		10.4			8.4			40.5			142.3	
Approach LOS		B			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.1	4.7	42.2		24.0	8.5	38.4				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	32.0		20.0	6.0	31.0				
Max Q Clear Time (g_c+I1), s		4.7	2.3	4.1		22.0	5.7	9.6				
Green Ext Time (p_c), s		0.0	0.0	3.4		0.0	0.0	3.1				

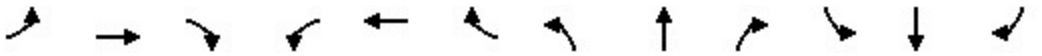
Intersection Summary	
HCM 7th Control Delay, s/veh	49.5
HCM 7th LOS	D



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	336	389	69	233	137	15
Future Volume (veh/h)	336	389	69	233	137	15
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	354	409	73	245	144	16
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	521	602	125	1456	216	192
Arrive On Green	1.00	1.00	0.07	0.78	0.12	0.12
Sat Flow, veh/h	791	914	1781	1870	1781	1585
Grp Volume(v), veh/h	0	763	73	245	144	16
Grp Sat Flow(s),veh/h/ln	0	1706	1781	1870	1781	1585
Q Serve(g_s), s	0.0	0.0	3.2	2.7	6.2	0.7
Cycle Q Clear(g_c), s	0.0	0.0	3.2	2.7	6.2	0.7
Prop In Lane		0.54	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1123	125	1456	216	192
V/C Ratio(X)	0.00	0.68	0.58	0.17	0.67	0.08
Avail Cap(c_a), veh/h	0	1123	178	1456	267	238
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.69	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.1	2.3	33.6	31.2
Incr Delay (d2), s/veh	0.0	2.3	4.3	0.2	4.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.7	1.4	0.5	2.9	0.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	2.3	40.3	2.5	38.1	31.4
LnGrp LOS		A	D	A	D	C
Approach Vol, veh/h	763			318	160	
Approach Delay, s/veh	2.3			11.2	37.4	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		13.7	9.6	56.7		66.3
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		12.0	8.0	48.0		60.0
Max Q Clear Time (g_c+I1), s		8.2	5.2	2.0		4.7
Green Ext Time (p_c), s		0.1	0.0	6.3		1.4

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	9.1
HCM 6th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	131	668	36	9	353	18	29	2	21	50	23	189
Future Volume (veh/h)	131	668	36	9	353	18	29	2	21	50	23	189
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	138	703	38	9	372	19	31	2	22	53	24	199
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	165	1004	54	28	846	43	84	5	60	156	70	171
Arrive On Green	0.21	1.00	1.00	0.03	0.96	0.96	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1758	95	1781	1764	90	958	62	680	1245	564	1372
Grp Volume(v), veh/h	138	0	741	9	0	391	55	0	0	77	0	199
Grp Sat Flow(s),veh/h/ln	1541	0	1853	1781	0	1854	1700	0	0	1808	0	1372
Q Serve(g_s), s	6.9	0.0	0.0	0.4	0.0	1.2	2.4	0.0	0.0	3.1	0.0	10.0
Cycle Q Clear(g_c), s	6.9	0.0	0.0	0.4	0.0	1.2	2.4	0.0	0.0	3.1	0.0	10.0
Prop In Lane	1.00		0.05	1.00		0.05	0.56		0.40	0.69		1.00
Lane Grp Cap(c), veh/h	165	0	1058	28	0	889	150	0	0	226	0	171
V/C Ratio(X)	0.83	0.00	0.70	0.32	0.00	0.44	0.37	0.00	0.00	0.34	0.00	1.16
Avail Cap(c_a), veh/h	270	0	1058	156	0	889	234	0	0	226	0	171
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.76	0.00	0.76	0.96	0.00	0.96	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	30.7	0.0	0.0	38.3	0.0	0.9	34.4	0.0	0.0	32.0	0.0	35.0
Incr Delay (d2), s/veh	8.8	0.0	3.0	6.1	0.0	1.5	1.5	0.0	0.0	0.9	0.0	118.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	0.9	0.2	0.0	0.6	1.0	0.0	0.0	1.4	0.0	8.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	39.5	0.0	3.0	44.4	0.0	2.4	35.9	0.0	0.0	32.9	0.0	153.6
LnGrp LOS	D		A	D		A	D			C		F
Approach Vol, veh/h		879			400			55			276	
Approach Delay, s/veh		8.7			3.3			35.9			119.9	
Approach LOS		A			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.1	5.3	49.7		14.0	12.6	42.4				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		11.0	7.0	36.0		10.0	14.0	29.0				
Max Q Clear Time (g_c+I1), s		4.4	2.4	2.0		12.0	8.9	3.2				
Green Ext Time (p_c), s		0.1	0.0	6.3		0.0	0.1	2.2				

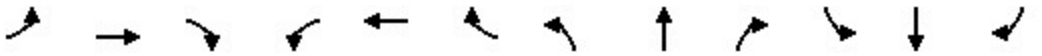
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			27.4									
HCM 6th LOS			C									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	344	291	131	370	232	31
Future Volume (veh/h)	344	291	131	370	232	31
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	362	306	138	389	244	33
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	553	467	171	1366	278	286
Arrive On Green	1.00	1.00	0.10	0.73	0.18	0.18
Sat Flow, veh/h	936	792	1781	1870	1541	1585
Grp Volume(v), veh/h	0	668	138	389	244	33
Grp Sat Flow(s),veh/h/ln	0	1728	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	6.8	6.4	13.9	1.6
Cycle Q Clear(g_c), s	0.0	0.0	6.8	6.4	13.9	1.6
Prop In Lane		0.46	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1020	171	1366	278	286
V/C Ratio(X)	0.00	0.65	0.81	0.28	0.88	0.12
Avail Cap(c_a), veh/h	0	1020	218	1366	360	370
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.82	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	39.9	4.1	35.9	30.9
Incr Delay (d2), s/veh	0.0	2.7	16.1	0.5	17.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	3.6	1.8	6.4	0.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	2.7	56.0	4.6	53.3	31.0
LnGrp LOS		A	E	A	D	C
Approach Vol, veh/h	668			527	277	
Approach Delay, s/veh	2.7			18.1	50.6	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		20.2	12.6	57.1		69.8
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		21.0	11.0	46.0		61.0
Max Q Clear Time (g_c+I1), s		15.9	8.8	2.0		8.4
Green Ext Time (p_c), s		0.4	0.1	5.0		2.3

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	17.2
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	547	15	9	575	38	29	0	31	76	13	447
Future Volume (veh/h)	71	547	15	9	575	38	29	0	31	76	13	447
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	75	576	16	9	605	40	31	0	33	80	14	471
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	91	873	24	20	753	50	50	0	54	407	71	366
Arrive On Green	0.12	0.96	0.96	0.02	0.87	0.87	0.06	0.00	0.06	0.27	0.27	0.27
Sat Flow, veh/h	1541	1811	50	1781	1735	115	811	0	863	1527	267	1372
Grp Volume(v), veh/h	75	0	592	9	0	645	64	0	0	94	0	471
Grp Sat Flow(s),veh/h/ln	1541	0	1861	1781	0	1849	1674	0	0	1794	0	1372
Q Serve(g_s), s	4.3	0.0	2.8	0.4	0.0	13.6	3.4	0.0	0.0	3.6	0.0	24.0
Cycle Q Clear(g_c), s	4.3	0.0	2.8	0.4	0.0	13.6	3.4	0.0	0.0	3.6	0.0	24.0
Prop In Lane	1.00		0.03	1.00		0.06	0.48		0.52	0.85		1.00
Lane Grp Cap(c), veh/h	91	0	898	20	0	803	104	0	0	478	0	366
V/C Ratio(X)	0.82	0.00	0.66	0.45	0.00	0.80	0.62	0.00	0.00	0.20	0.00	1.29
Avail Cap(c_a), veh/h	120	0	898	99	0	803	130	0	0	478	0	366
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.75	0.00	0.75	0.87	0.00	0.87	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.2	0.0	0.9	43.7	0.0	4.2	41.2	0.0	0.0	25.5	0.0	33.0
Incr Delay (d2), s/veh	22.2	0.0	2.9	13.3	0.0	7.3	5.8	0.0	0.0	0.2	0.0	148.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.0	1.1	0.3	0.0	3.4	1.5	0.0	0.0	1.6	0.0	22.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.4	0.0	3.7	57.0	0.0	11.6	47.0	0.0	0.0	25.7	0.0	181.7
LnGrp LOS	E		A	E		B	D			C		F
Approach Vol, veh/h		667			654			64			565	
Approach Delay, s/veh		10.2			12.2			47.0			155.7	
Approach LOS		B			B			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.6	5.0	47.4		28.0	9.3	43.1				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	38.0		24.0	7.0	36.0				
Max Q Clear Time (g_c+I1), s		5.4	2.4	4.8		26.0	6.3	15.6				
Green Ext Time (p_c), s		0.0	0.0	4.5		0.0	0.0	3.9				

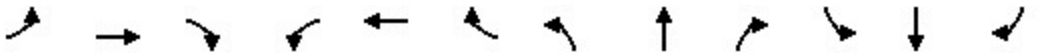
Intersection Summary	
HCM 6th Ctrl Delay, s/veh	54.3
HCM 6th LOS	D



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	425	451	134	278	169	32
Future Volume (veh/h)	425	451	134	278	169	32
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	447	475	141	293	178	34
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	519	552	156	1428	210	216
Arrive On Green	1.00	1.00	0.09	0.76	0.14	0.14
Sat Flow, veh/h	830	882	1781	1870	1541	1585
Grp Volume(v), veh/h	0	922	141	293	178	34
Grp Sat Flow(s),veh/h/ln	0	1712	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	6.3	3.5	9.0	1.5
Cycle Q Clear(g_c), s	0.0	0.0	6.3	3.5	9.0	1.5
Prop In Lane		0.52	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1071	156	1428	210	216
V/C Ratio(X)	0.00	0.86	0.90	0.21	0.85	0.16
Avail Cap(c_a), veh/h	0	1071	156	1428	212	218
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.54	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	2.7	33.7	30.5
Incr Delay (d2), s/veh	0.0	5.2	45.3	0.3	25.7	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.5	4.5	0.7	4.8	0.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	5.2	81.5	3.0	59.4	30.8
LnGrp LOS		A	F	A	E	C
Approach Vol, veh/h	922			434	212	
Approach Delay, s/veh	5.2			28.5	54.8	
Approach LOS	A			C	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		14.9	11.0	54.1		65.1
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		11.0	7.0	50.0		61.0
Max Q Clear Time (g_c+I1), s		11.0	8.3	2.0		5.5
Green Ext Time (p_c), s		0.0	0.0	8.9		1.7

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	18.3
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	149	787	38	9	433	21	32	2	22	62	23	221
Future Volume (veh/h)	149	787	38	9	433	21	32	2	22	62	23	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	157	828	40	9	456	22	34	2	23	65	24	233
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	187	1005	49	28	819	39	90	5	61	165	61	171
Arrive On Green	0.16	0.76	0.76	0.03	0.93	0.93	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1769	85	1781	1769	85	981	58	663	1318	487	1372
Grp Volume(v), veh/h	157	0	868	9	0	478	59	0	0	89	0	233
Grp Sat Flow(s),veh/h/ln	1541	0	1855	1781	0	1855	1702	0	0	1804	0	1372
Q Serve(g_s), s	7.9	0.0	24.3	0.4	0.0	3.2	2.6	0.0	0.0	3.6	0.0	10.0
Cycle Q Clear(g_c), s	7.9	0.0	24.3	0.4	0.0	3.2	2.6	0.0	0.0	3.6	0.0	10.0
Prop In Lane	1.00		0.05	1.00		0.05	0.58		0.39	0.73		1.00
Lane Grp Cap(c), veh/h	187	0	1053	28	0	858	155	0	0	226	0	171
V/C Ratio(X)	0.84	0.00	0.82	0.32	0.00	0.56	0.38	0.00	0.00	0.39	0.00	1.36
Avail Cap(c_a), veh/h	231	0	1053	156	0	858	213	0	0	226	0	171
HCM Platoon Ratio	1.33	1.33	1.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.66	0.00	0.66	0.89	0.00	0.89	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.8	0.0	7.2	38.3	0.0	1.7	34.2	0.0	0.0	32.2	0.0	35.0
Incr Delay (d2), s/veh	14.0	0.0	5.0	5.6	0.0	2.3	1.5	0.0	0.0	1.1	0.0	194.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	0.0	5.9	0.2	0.0	1.1	1.1	0.0	0.0	1.6	0.0	12.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.8	0.0	12.2	43.9	0.0	4.0	35.7	0.0	0.0	33.3	0.0	229.6
LnGrp LOS	D		B	D		A	D			C		F
Approach Vol, veh/h		1025			487			59			322	
Approach Delay, s/veh		17.5			4.8			35.7			175.3	
Approach LOS		B			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.3	5.3	49.4		14.0	13.7	41.0				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		10.0	7.0	37.0		10.0	12.0	32.0				
Max Q Clear Time (g_c+I1), s		4.6	2.4	26.3		12.0	9.9	5.2				
Green Ext Time (p_c), s		0.1	0.0	4.8		0.0	0.1	2.8				

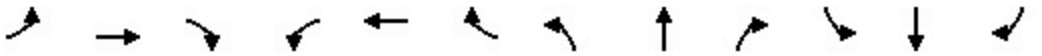
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			41.6									
HCM 6th LOS			D									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	346	296	131	378	239	31
Future Volume (veh/h)	346	296	131	378	239	31
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	364	312	138	398	252	33
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	545	467	170	1357	286	294
Arrive On Green	1.00	1.00	0.10	0.73	0.19	0.19
Sat Flow, veh/h	930	797	1781	1870	1541	1585
Grp Volume(v), veh/h	0	676	138	398	252	33
Grp Sat Flow(s),veh/h/ln	0	1727	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	6.8	6.7	14.3	1.6
Cycle Q Clear(g_c), s	0.0	0.0	6.8	6.7	14.3	1.6
Prop In Lane		0.46	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1011	170	1357	286	294
V/C Ratio(X)	0.00	0.67	0.81	0.29	0.88	0.11
Avail Cap(c_a), veh/h	0	1011	198	1357	360	370
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.80	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	39.9	4.3	35.7	30.5
Incr Delay (d2), s/veh	0.0	2.8	19.5	0.5	18.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	3.8	1.9	6.7	0.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	2.8	59.4	4.9	54.1	30.7
LnGrp LOS		A	E	A	D	C
Approach Vol, veh/h	676			536	285	
Approach Delay, s/veh	2.8			18.9	51.4	
Approach LOS	A			B	D	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		20.7	12.6	56.7		69.3
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		21.0	10.0	47.0		61.0
Max Q Clear Time (g_c+I1), s		16.3	8.8	2.0		8.7
Green Ext Time (p_c), s		0.4	0.0	5.1		2.4

Intersection Summary	
HCM 6th Ctrl Delay, s/veh	17.8
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	73	553	16	9	590	38	30	0	31	76	13	465
Future Volume (veh/h)	73	553	16	9	590	38	30	0	31	76	13	465
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	77	582	17	9	621	40	32	0	33	80	14	489
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	93	851	25	20	732	47	52	0	53	424	74	381
Arrive On Green	0.12	0.94	0.94	0.02	0.84	0.84	0.06	0.00	0.06	0.28	0.28	0.28
Sat Flow, veh/h	1541	1808	53	1781	1738	112	825	0	851	1527	267	1372
Grp Volume(v), veh/h	77	0	599	9	0	661	65	0	0	94	0	489
Grp Sat Flow(s),veh/h/ln	1541	0	1861	1781	0	1850	1676	0	0	1794	0	1372
Q Serve(g_s), s	4.4	0.0	4.8	0.4	0.0	17.7	3.4	0.0	0.0	3.6	0.0	25.0
Cycle Q Clear(g_c), s	4.4	0.0	4.8	0.4	0.0	17.7	3.4	0.0	0.0	3.6	0.0	25.0
Prop In Lane	1.00		0.03	1.00		0.06	0.49		0.51	0.85		1.00
Lane Grp Cap(c), veh/h	93	0	876	20	0	779	105	0	0	498	0	381
V/C Ratio(X)	0.82	0.00	0.68	0.45	0.00	0.85	0.62	0.00	0.00	0.19	0.00	1.28
Avail Cap(c_a), veh/h	103	0	876	99	0	779	130	0	0	498	0	381
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.68	0.00	0.68	0.86	0.00	0.86	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.1	0.0	1.5	43.7	0.0	5.5	41.1	0.0	0.0	24.8	0.0	32.5
Incr Delay (d2), s/veh	27.6	0.0	3.0	13.1	0.0	9.7	5.9	0.0	0.0	0.2	0.0	146.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	1.4	0.3	0.0	4.3	1.5	0.0	0.0	1.5	0.0	23.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	66.7	0.0	4.5	56.8	0.0	15.2	47.0	0.0	0.0	25.0	0.0	178.7
LnGrp LOS	E		A	E		B	D			C		F
Approach Vol, veh/h		676			670			65			583	
Approach Delay, s/veh		11.6			15.8			47.0			153.9	
Approach LOS		B			B			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.6	5.0	46.4		29.0	9.5	41.9				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	5.0	37.0		25.0	6.0	36.0				
Max Q Clear Time (g_c+I1), s		5.4	2.4	6.8		27.0	6.4	19.7				
Green Ext Time (p_c), s		0.0	0.0	4.5		0.0	0.0	3.7				

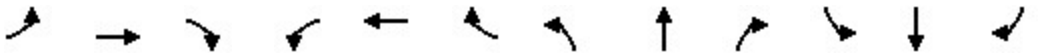
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			55.8									
HCM 6th LOS			E									



Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	433	468	134	280	172	32
Future Volume (veh/h)	433	468	134	280	172	32
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1618	1870	1870	1618	1870
Adj Flow Rate, veh/h	456	493	141	295	181	34
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	19	2	2	19	2
Cap, veh/h	514	555	156	1426	212	218
Arrive On Green	1.00	1.00	0.09	0.76	0.14	0.14
Sat Flow, veh/h	822	889	1781	1870	1541	1585
Grp Volume(v), veh/h	0	949	141	295	181	34
Grp Sat Flow(s),veh/h/ln	0	1710	1781	1870	1541	1585
Q Serve(g_s), s	0.0	0.0	6.3	3.6	9.2	1.5
Cycle Q Clear(g_c), s	0.0	0.0	6.3	3.6	9.2	1.5
Prop In Lane		0.52	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	0	1069	156	1426	212	218
V/C Ratio(X)	0.00	0.89	0.90	0.21	0.85	0.16
Avail Cap(c_a), veh/h	0	1069	156	1426	212	218
HCM Platoon Ratio	1.67	1.67	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.50	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	36.2	2.7	33.7	30.4
Incr Delay (d2), s/veh	0.0	6.0	45.3	0.3	27.1	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.8	4.5	0.7	4.9	0.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	0.0	6.0	81.5	3.0	60.8	30.7
LnGrp LOS		A	F	A	E	C
Approach Vol, veh/h	949			436	215	
Approach Delay, s/veh	6.0			28.4	56.1	
Approach LOS	A			C	E	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		15.0	11.0	54.0		65.0
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s		11.0	7.0	50.0		61.0
Max Q Clear Time (g_c+I1), s		11.2	8.3	2.0		5.6
Green Ext Time (p_c), s		0.0	0.0	9.4		1.7

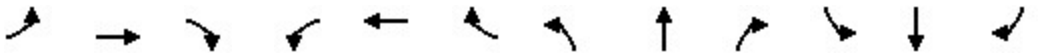
Intersection Summary	
HCM 6th Ctrl Delay, s/veh	18.8
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	156	811	39	9	438	21	32	2	22	62	23	226
Future Volume (veh/h)	156	811	39	9	438	21	32	2	22	62	23	226
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	164	854	41	9	461	22	34	2	23	65	24	238
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	194	1005	48	28	811	39	90	5	61	165	61	171
Arrive On Green	0.17	0.76	0.76	0.03	0.92	0.92	0.09	0.09	0.09	0.13	0.13	0.13
Sat Flow, veh/h	1541	1770	85	1781	1770	84	981	58	663	1318	487	1372
Grp Volume(v), veh/h	164	0	895	9	0	483	59	0	0	89	0	238
Grp Sat Flow(s),veh/h/ln	1541	0	1855	1781	0	1855	1702	0	0	1804	0	1372
Q Serve(g_s), s	8.3	0.0	26.4	0.4	0.0	3.7	2.6	0.0	0.0	3.6	0.0	10.0
Cycle Q Clear(g_c), s	8.3	0.0	26.4	0.4	0.0	3.7	2.6	0.0	0.0	3.6	0.0	10.0
Prop In Lane	1.00		0.05	1.00		0.05	0.58		0.39	0.73		1.00
Lane Grp Cap(c), veh/h	194	0	1053	28	0	849	155	0	0	226	0	171
V/C Ratio(X)	0.85	0.00	0.85	0.32	0.00	0.57	0.38	0.00	0.00	0.39	0.00	1.39
Avail Cap(c_a), veh/h	231	0	1053	156	0	849	213	0	0	226	0	171
HCM Platoon Ratio	1.33	1.33	1.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.62	0.00	0.62	0.89	0.00	0.89	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	32.6	0.0	7.5	38.3	0.0	2.0	34.2	0.0	0.0	32.2	0.0	35.0
Incr Delay (d2), s/veh	14.3	0.0	5.5	5.6	0.0	2.5	1.5	0.0	0.0	1.1	0.0	206.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	0.0	6.3	0.2	0.0	1.2	1.1	0.0	0.0	1.6	0.0	12.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.8	0.0	13.0	43.9	0.0	4.4	35.7	0.0	0.0	33.3	0.0	241.5
LnGrp LOS	D		B	D		A	D			C		F
Approach Vol, veh/h		1059			492			59			327	
Approach Delay, s/veh		18.2			5.2			35.7			184.8	
Approach LOS		B			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.3	5.3	49.4		14.0	14.1	40.6				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		10.0	7.0	37.0		10.0	12.0	32.0				
Max Q Clear Time (g_c+I1), s		4.6	2.4	28.4		12.0	10.3	5.7				
Green Ext Time (p_c), s		0.1	0.0	4.3		0.0	0.1	2.8				

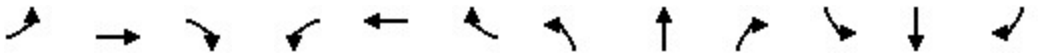
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			43.6									
HCM 6th LOS			D									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	73	553	16	9	590	38	30	0	31	76	13	465
Future Volume (veh/h)	73	553	16	9	590	38	30	0	31	76	13	465
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	77	582	17	9	621	40	32	0	33	80	14	489
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	99	852	25	28	735	47	50	0	51	101	532	390
Arrive On Green	0.13	0.94	0.94	0.03	0.85	0.85	0.06	0.00	0.06	0.28	0.28	0.28
Sat Flow, veh/h	1541	1808	53	1781	1738	112	825	0	851	356	1870	1372
Grp Volume(v), veh/h	77	0	599	9	0	661	65	0	0	80	14	489
Grp Sat Flow(s),veh/h/ln	1541	0	1861	1781	0	1850	1676	0	0	356	1870	1372
Q Serve(g_s), s	4.6	0.0	4.9	0.5	0.0	18.3	3.6	0.0	0.0	19.7	0.5	27.0
Cycle Q Clear(g_c), s	4.6	0.0	4.9	0.5	0.0	18.3	3.6	0.0	0.0	19.7	0.5	27.0
Prop In Lane	1.00		0.03	1.00		0.06	0.49		0.51	1.00		1.00
Lane Grp Cap(c), veh/h	99	0	877	28	0	782	101	0	0	101	532	390
V/C Ratio(X)	0.78	0.00	0.68	0.32	0.00	0.84	0.64	0.00	0.00	0.79	0.03	1.25
Avail Cap(c_a), veh/h	114	0	877	131	0	782	123	0	0	101	532	390
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.69	0.00	0.69	0.86	0.00	0.86	1.00	0.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.8	0.0	1.6	45.5	0.0	5.6	43.6	0.0	0.0	31.4	24.5	34.0
Incr Delay (d2), s/veh	18.6	0.0	3.0	5.7	0.0	9.5	7.8	0.0	0.0	33.2	0.0	134.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	1.5	0.2	0.0	4.3	1.7	0.0	0.0	2.6	0.2	22.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	59.4	0.0	4.6	51.2	0.0	15.1	51.4	0.0	0.0	64.6	24.5	168.0
LnGrp LOS	E		A	D		B	D			E	C	F
Approach Vol, veh/h		676			670			65			583	
Approach Delay, s/veh		10.8			15.6			51.4			150.3	
Approach LOS		B			B			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		9.7	5.5	48.8		31.0	10.1	44.2				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		7.0	7.0	38.0		27.0	7.0	38.0				
Max Q Clear Time (g_c+I1), s		5.6	2.5	6.9		29.0	6.6	20.3				
Green Ext Time (p_c), s		0.0	0.0	4.5		0.0	0.0	3.9				

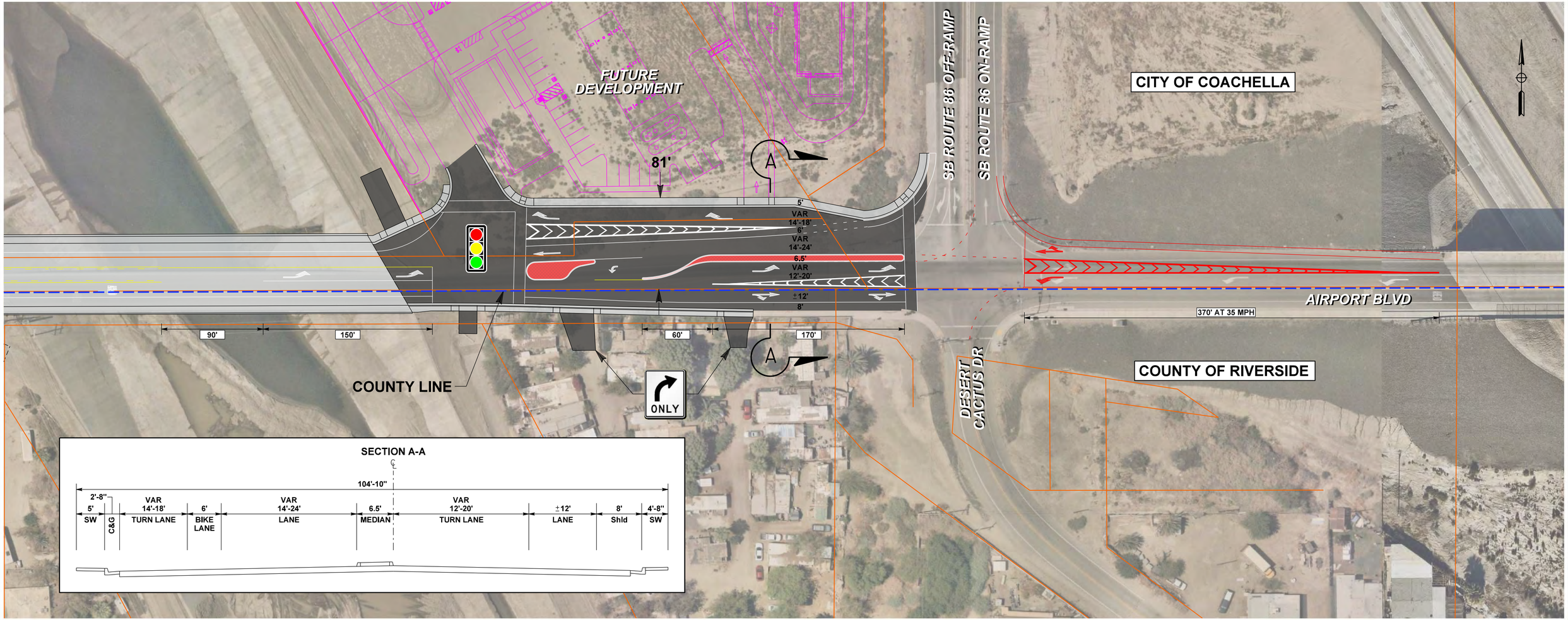
Intersection Summary												
HCM 6th Ctrl Delay, s/veh			54.5									
HCM 6th LOS			D									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	156	811	39	9	438	21	32	2	22	62	23	226
Future Volume (veh/h)	156	811	39	9	438	21	32	2	22	62	23	226
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1618	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1618
Adj Flow Rate, veh/h	164	854	41	9	461	22	34	2	23	65	24	238
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	19	2	2	2	2	2	2	2	2	2	2	19
Cap, veh/h	194	940	45	28	745	36	87	5	59	63	330	242
Arrive On Green	0.13	0.53	0.53	0.03	0.84	0.84	0.09	0.09	0.09	0.18	0.18	0.18
Sat Flow, veh/h	1541	1770	85	1781	1770	84	981	58	663	356	1870	1372
Grp Volume(v), veh/h	164	0	895	9	0	483	59	0	0	65	24	238
Grp Sat Flow(s),veh/h/ln	1541	0	1855	1781	0	1855	1702	0	0	356	1870	1372
Q Serve(g_s), s	8.8	0.0	37.2	0.4	0.0	7.3	2.8	0.0	0.0	15.0	0.9	14.7
Cycle Q Clear(g_c), s	8.8	0.0	37.2	0.4	0.0	7.3	2.8	0.0	0.0	15.0	0.9	14.7
Prop In Lane	1.00		0.05	1.00		0.05	0.58		0.39	1.00		1.00
Lane Grp Cap(c), veh/h	194	0	985	28	0	781	151	0	0	63	330	242
V/C Ratio(X)	0.84	0.00	0.91	0.32	0.00	0.62	0.39	0.00	0.00	1.03	0.07	0.98
Avail Cap(c_a), veh/h	236	0	985	147	0	781	200	0	0	63	330	242
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.62	0.00	0.62	0.89	0.00	0.89	1.00	0.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.3	0.0	18.1	40.7	0.0	4.5	36.6	0.0	0.0	35.0	29.2	34.9
Incr Delay (d2), s/veh	13.7	0.0	9.2	5.7	0.0	3.3	1.7	0.0	0.0	123.3	0.1	53.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	16.7	0.2	0.0	2.1	1.2	0.0	0.0	3.4	0.4	8.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.0	0.0	27.3	46.4	0.0	7.7	38.2	0.0	0.0	158.3	29.3	87.9
LnGrp LOS	D		C	D		A	D			F	C	F
Approach Vol, veh/h		1059			492			59			327	
Approach Delay, s/veh		30.8			8.4			38.2			97.6	
Approach LOS		C			A			D			F	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		11.5	5.3	49.1		19.0	14.7	39.8				
Change Period (Y+Rc), s		4.0	4.0	4.0		4.0	4.0	4.0				
Max Green Setting (Gmax), s		10.0	7.0	37.0		15.0	13.0	31.0				
Max Q Clear Time (g_c+I1), s		4.8	2.4	39.2		17.0	10.8	9.3				
Green Ext Time (p_c), s		0.1	0.0	0.0		0.0	0.1	2.7				

Intersection Summary												
HCM 6th Ctrl Delay, s/veh			36.6									
HCM 6th LOS			D									



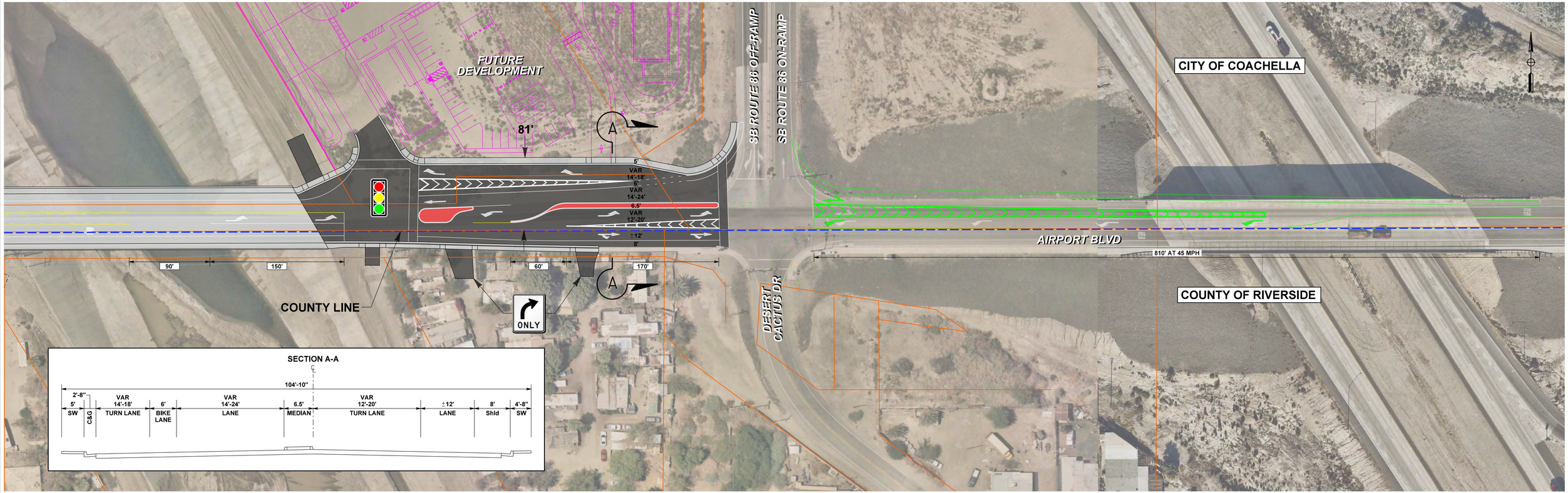
DOKKEN ENGINEERING
110 BLUE RAVINE ROAD
SUITE 200
FOLSOM, CA 95630
(916) 858-0642

REPLACEMENT OF THE AIRPORT BOULEVARD BRIDGE OVER WHITEWATER RIVER PROJECT

PRELIMINARY PROJECT OVERVIEW INTERIM STRIPING

NO SCALE

SEPTEMBER 2024



DOKKEN ENGINEERING
110 BLUE RAVINE ROAD
SUITE 200
FOLSOM, CA 95630
(916) 858-0642

REPLACEMENT OF THE AIRPORT BOULEVARD BRIDGE OVER WHITEWATER RIVER PROJECT

PRELIMINARY PROJECT OVERVIEW
INTERIM STRIPING

NO SCALE

SEPTEMBER 2024