Annual Report for the Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program

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Executive Summary

Introduction

The South Coast Air Quality Management District (South Coast AQMD) is the regional air quality regulatory agency for all of Orange County and large portions of Los Angeles, Riverside, and San Bernardino counties including portions of both the Salton Sea Air Basin (SSAB) and the Mojave Desert Air Basin (MDAB). The South Coast AQMD has the authority to adopt and implement rules and regulations that control emissions from indirect and areawide sources to meet air quality standards within its jurisdiction. Based on this authority, the 2016 Air Quality Management Plan (AQMP) committed South Coast AQMD to develop local Facility Based Mobile Source Measures, such as Control Measure MOB–03 – Emission Reductions at Warehouse Distribution Centers. Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program and its companion Rule 316 – Fees for Rule 2305 are designed to satisfy this AQMP commitment to reduce regional and local emissions of nitrogen oxides (NOx) and diesel particulate matter (DPM). The mitigation actions required by the rule will assist in meeting state and federal ambient air quality standards for ozone and fine particulate matter and improve public health, especially in communities that are located near warehouses.

South Coast AQMD Rule 2305 includes a menu-based points system requiring warehouse operators to earn a specified number of points annually to facilitate local and regional emission reductions associated with existing and new warehouses subject to the rule, and the mobile sources attracted to these warehouses. Rule 2305 applies to both operators and owners of warehouses greater than or equal to 100,000 square feet of indoor floor space within a single building that may be used for warehousing activities. Through the implementation of Rule 2305, warehouse owners and operators will be phased in to the program over a 3-year period based on the warehouse building size, with the stringency increasing over a 3-year period once a warehouse is in the program.

Purpose

This first WAIRE Program Annual Report is prepared pursuant to South Coast AQMD's May 7, 2021, Governing Board Resolution No. 21-9. Subsequent annual reports will evolve over time to include additional information as the implementation of Rule 2305 progresses through the initial 3-year phase-in period and the rule's lifespan. Each subsequent annual report will include updates on the status of rule implementation based on WAIRE Program activities that occurred since the previous annual report. This annual report will provide information on rule implementation activities, including outreach, reporting, compliance, mitigation fee program, enforcement, program results and other rule-related activities, such as the WAIRE Program Online Portal (POP) development. The annual report will also identify the anticipated next steps for Rule 2305 implementation for the following year. As the first iteration of the WAIRE Program Annual Report, this report will provide an overview of the WAIRE Program's implementation from rule adoption, May 7, 2021, through September 30, 2022.
WAIRE Program Implementation Update

The South Coast AQMD consists of an area of approximately 10,743 square miles and is home to the nation's largest marine ports, the Ports of Los Angeles and Long Beach, which serve as the entry point of over a third of all cargo imported to the nation.\(^1\) The goods movement sector has grown rapidly in recent years, partially due to the COVID-19 pandemic, which shifted some of American consumers' behavior from a service-based economy to a goods-based economy and brought record-high congestion at the ports. In 2021, about a quarter of the goods movement through the ports was transported by train via the Alameda Corridor.\(^2\) This leaves the remaining cargo from the ports\(^3,4\) to be transported by trucks, where it likely flows through the largest warehouses.

Recently updated analysis of the warehousing industry in South Coast AQMD's jurisdiction area over the last 10 years (2012-2022) shows that adopting Rules 2305 and 316 had minimal impact on warehousing demand, consistent with the Rules' Final Socioeconomic Impact Analysis. In the last 10 years, warehouse rental prices increased by 151% to an all-time high of $14.2 per square foot \([\text{Figure 1}]\). At the same time, the total inventory of warehousing space increased by 34% to 877 million square feet. In addition, while warehouse capacity increased continuously over this period and prices are at an all-time high, the available capacity (the vacancy rate) has consistently dropped to less than 2%, the lowest level since 2012\(^5\) \([\text{Figure 2}]\).

\(\text{Figure 1 - Vacancy Rate (\%) and Rental Price ($/sq ft) from 2012 to 2022}^{*}\)

\(^1\) https://data.bts.gov/stories/s/Port-Data-Catalog/6kur-q9xk
\(^3\) https://polb.com/business/port-statistics/#yearly-teus
\(^4\) https://www.portoflosangeles.org/business/statistics/container-statistics
\(^5\) South Coast AQMD staff used Costar, an online subscription database of commercial real estate information, to gather data on the warehousing market, which was also used in the Final Socioeconomic Impact Assessment. Using the same methodology outlined in Appendix C: Warehouse Population Methodology of the Final Staff Report for Rule 2305 and Rule 316, South Coast AQMD staff specifically focused on the data for warehousing space that is expected to be subject to requirements under the WAIRE Program.
*The vertical black line represents Rule 2305’s adoption date (May 7, 2021).

Figure 2 - Total Warehousing Area and Total Number of Warehouses
Warehouse Universe

The population of WAIRE Program warehouses described in *Appendix C: Warehouse Population Methodology* of the Final Staff Report was based on a snapshot in time. At the time of rule adoption, South Coast AQMD staff estimated that approximately 3,320 warehouses would be subject to Rule 2305 requirements. Of the 3,320 warehouse buildings, it is possible that some of these warehouses may be exempt or do not conduct ‘warehousing activities’ as defined in Rule 2305. The data and the methodology that led to this estimation are described in detail in *Appendix C*.6

South Coast AQMD staff updated its previous estimate of the warehousing population potentially subject to Rule 2305 in July 2022 (Figure 3). The phase of rule implementation is based on the warehouse building size in square feet. See Table 1. An additional 156 warehouses were identified as potentially subject to Rule 2305 requirements, increasing the population to 3,476 warehouses. As shown in Figure 3, the inventory of warehouse buildings has grown steadily for the last 10 years and has expanded since rule adoption.

*Figure 3 - Warehouse Industry Growth Trend 2020 vs 2022: Total Warehouse Universe*

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Table 1: Rule 2305 Reporting Overview

<table>
<thead>
<tr>
<th>Phase</th>
<th>Warehouse Size (Square Feet)</th>
<th>Warehouse Operations Notification (WON) * Due Date</th>
<th>Reporting Period</th>
<th>1st Due Date</th>
<th>1st Compliance Period</th>
<th>1st Due Date***</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>≥250,000</td>
<td>September 1, 2021**</td>
<td>Previous 12 Months and Anticipated for AWR</td>
<td>July 1, 2022</td>
<td>January 1, 2022 – December 31, 2022</td>
<td>January 31, 2023</td>
</tr>
<tr>
<td>2</td>
<td>150,000 - &lt;250,000</td>
<td>Previous 12 Months and Anticipated for AWR</td>
<td>July 1, 2023</td>
<td>January 1, 2023 – December 31, 2023</td>
<td>January 31, 2024</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>100,000 - &lt;150,000</td>
<td>Previous 12 Months and Anticipated for AWR</td>
<td>July 1, 2024</td>
<td>January 1, 2024 – December 31, 2024</td>
<td>January 31, 2025</td>
<td></td>
</tr>
</tbody>
</table>

*Warehouse Operations Notification is the only required reporting obligation for warehouse owners subject to Rule 2305, see Rule 2305(d)(7)(A).
**Or within 14 days of operator change or 30 days after renovation that changes the square footage.
***If the warehouse operator vacates the warehouse during the compliance period, the AWR is due the date the operator leaves.

Figure 4 identifies the locations of the warehouses anticipated to be subject to Rule 2305, based on the July 2022 update by South Coast AQMD staff. The implementation phase of each warehouse is color-coded in this figure.
Figure 4 - Anticipated Rule 2305 Universe

Legend
- Phase 1 Warehouses*
- Phase 2 Warehouses*
- Phase 3 Warehouses*

*Based on CoStar data as of July 2022
Reporting

Warehouse operators and owners subject to Rule 2305 are required to submit reports to South Coast AQMD to provide details on their applicable warehouse operations and compliance. *Table 1* provides an overview of the reporting requirements for Rule 2305.

Warehouse Operations Notification (WON)

Warehouse owners subject to Rule 2305 are required to submit a Warehouse Operations Notification (WON). The WON requirement applies to landowners or owners of warehouse buildings with greater than or equal to 100,000 square feet of indoor floor space in a single building. The due date for submitting the WON to the South Coast AQMD was September 1, 2021. A WON must be submitted by the warehouse owner, or an authorized official of the warehouse owner, through the WAIRE Program Online Portal (POP) online system. The applicable administrative fee was required at the same time as the WON submittal to be deemed a complete submittal.

Information required in the WON includes, but is not limited to, the following:

- Warehouse location and building size,
- Name and contact information of warehouse owner(s) and lessee(s),
- Start and end dates of each lease, square footage used by each lessee, and square footage usable for warehousing activities by each lessee.

Since rule adoption, approximately 490 complete WONs have been received, covering a total of approximately 1,650 warehouses. This represents about 47% of the anticipated warehouse population based on the July 2022 CoStar data. The warehouse owners who have submitted a WON vary by phase, as depicted in *Figure 5*. Approximately 42% of the warehouses identified through WON reports are Phase 1 warehouse buildings.

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7 Rule 2305 sets forth requirements for warehouse owners to submit updated WON reports in a timely manner if warehouse operators change, if renovations occur and certificates of occupancy are provided, or if a formal request is made by South Coast AQMD. See Rule 2305(e)(1).
8 WAIRE Program Online Portal (POP), [https://xappp.aqmd.gov/isr](https://xappp.aqmd.gov/isr).
9 Pursuant to Rule 316 (d), the submittal fee per WON report is $29.51. Warehouse owners submitting a WON for a warehouse with less than 100,000 square feet of floor area dedicated to warehousing activities are exempt from the reporting fee pursuant to Rule 316(h)(1).
10 A submittal may have multiple WONs. It is not necessarily a one-to-one submittal, where there is one owner submitting one warehouse location.
South Coast AQMD plans to continue conducting targeted outreach to the remaining warehouse owners that have yet to submit a WON report. South Coast AQMD has used and will continue to use the anticipated warehouse list to focus outreach efforts to those warehouse owners who have not yet submitted a WON as required by Rule 2305. Additional compliance and enforcement actions will be pursued as well to ensure reporting is completed from all applicable facilities as required by the rule.

Initial Site Information Report (ISIR)

Warehouse operators\textsuperscript{11} are required to submit an Initial Site Information Report (ISIR),\textsuperscript{12} if the warehouse operator meets the following conditions:\textsuperscript{13}

1. Operates in a warehouse building that is greater than or equal to 100,000 square feet of indoor floor space, and

2. Operates in a warehouse building with greater than or equal to 100,000 square feet of indoor floor space that may be used for warehousing activities.

If only condition (1) is met, the warehouse operator needs to submit limited reporting.\textsuperscript{14} If the warehouse owner is also the operator, conditions (1) and (2) must be met for an ISIR to be required. If the warehouse

\textsuperscript{11} Warehouse operators may include, but are not limited to, warehouse owners or third-party logistics companies that serve as operators.

\textsuperscript{12} Pursuant to Rule 316, the applicable administrative fee per ISIR is $140.68. Warehouse operators who operate less than 50,000 square feet of a warehouse for warehousing activities and for which Rule 2305(e)(2)(A)(ii) applies is not required to pay fees described in Rule 316(d).

\textsuperscript{13} See Rule 2305(b) and Rule 2305(e)(2)(A)
operator leases space in the building, they are required to submit an ISIR if they also meet the following condition:

(3) Lease greater than or equal to 50,000 square feet of indoor floor space in the warehouse building that may be used for warehousing activities.\(^{15}\)

Information required in the ISIR includes, but is not limited to, the following:

- The total indoor floor square footage of the applicable warehouse building and the amount of space the warehouse operator leases that may be used for warehousing activities,\(^{16}\)
- Truck trip data including truck trips from the previous 12-month period and an estimate of the number of truck trips that will be reported during the applicable period for their upcoming AWR,\(^{17}\)
- Fleet information (owned and/or leased), including on-road trucks or tractors and yard trucks used at the facility,
- Any onsite charging or alternative fueling stations,
- Any onsite alternative energy generation or energy storage equipment, and
- Anticipated actions and/or investments the warehouse operator anticipates using to comply with the WPCO for the current compliance period (e.g., WAIRE menu items, a Custom WAIRE Plan, transferred WAIRE Points, and/or mitigation fees).

Given that 2022 was the first compliance year requiring an ISIR for Phase 1 warehouses, South Coast AQMD staff conducted significant outreach to assist in notifying warehouses of Rule 2305 and its requirements. This outreach included: sending approximately 3,000 emails using eNewsletter Pro to Listserv subscribers, posting compliance resources to the WAIRE compliance website after rule adoption for operators, such as the Frequently Asked Questions and WAIRE Upcoming Compliance Due Dates in 2021, posting training videos explaining operator requirements for the ISIR, conducting ISIR presentations to stakeholders who requested additional information on ISIR requirements, hosting webinars before the ISIR due date. As most warehouses covered by Rule 2305 do not have permits with South Coast AQMD, outreach focused first on operator/tenant information provided in the WONs and was supplemented with other databases with more limited information such as CoStar data.\(^{18}\) Approximately 262 Phase 1 warehouse operators submitted their ISIR on or before July 5, 2022.\(^{19}\) Since the Phase 1 ISIR compliance due date,\(^{19}\) South Coast AQMD has emailed over 400 contacts provided in

14 See Rule 2305(e)(2)(A)(i)
15 If condition (3) is not met for warehouse operators that lease the space in the warehouse building, there is an exemption listed in Rule 2305 that requires only an ISIR be submitted with limited information and the filing fee is waived. There are other requirements of Rule 2305 that require that a multiple warehouse operators owned or controlled by a single parent company collectively leasing greater than or equal to 50,000 square feet for warehousing activities in a warehouse do not qualify for this exemption from additional reporting or the administrative fee. See Rule 2305(e)(2)(A)(ii) and Rule 316(h)(2).
16 Warehousing activities is defined in Rule 2305(c)(33). Vacant areas that may be used for warehousing activities (e.g., empty storage racks, open floor space designed for warehousing, drive paths for pallet jacks or forklifts used in warehousing activities) must be included in the square footage calculation.
17 This estimate could just be an extrapolation of the data reported above for the previous 12-month period or could include an estimate based on expected business through the end of the compliance period.
18 See the Warehouse Universe section of this report for more information regarding the methodology used to determine the anticipated warehouse universe applicable to Rule 2305.
19 ISIRs are due July 1 of the initial compliance period for applicable warehouses. Due to scheduled maintenance of the South Coast AQMD online payment portal, Phase 1 ISIR submittals were accepted through July 5, 2022.
the WONs, called approximately 100 warehouses, and sent follow-up emails to notify warehouse operators of the ISIR requirement for Phase 1 warehouses. Some of the outreach process to date has been limited by incorrect contact information and/or warehousing building size listings. Staff also found that many warehouse operators who were contacted were not aware of the rule, required technical assistance with WAIRE POP prior to successfully submitting an ISIR, and/or were not aware of the timing of submitting the ISIR filing fee. This additional outreach has resulted in approximately an additional 118 ISIRs that have been submitted since the July 5 reporting deadline.¹⁹

In total, about 37% or 380 of the 1,019 Phase 1 warehouses have submitted an ISIR. Staff is continuing to outreach to warehouse operators and will pursue additional compliance and enforcement actions as well to ensure reporting is completed from all applicable facilities as required by the rule. Figure 6 displays the warehouse locations for which an ISIR was submitted compared to the expected Phase 1 population. Figure 7 depicts the distribution by county of ISIRs received for Phase 1 warehouses.²⁰

²⁰ Subject to final auditing by South Coast AQMD.
Figure 6 - Initial Site Information Reports Received versus Anticipated Phase 1 Universe

Legend
- Yellow circle: ISIRs Received (380 facilities)
- Black circle: Potential Phase 1 Universe*
  *Based on CoStar data as of July 2022
As stated in the WAIRE Implementation Guidelines, a portion of the ISIR report is intended to be a facility-by-facility planning exercise to assist the warehouse operators and South Coast AQMD in identifying the anticipated mechanisms that will be used for compliance. Figure 8 provides an overview of the WAIRE Menu items and the mitigation fee points selected by 153 companies who submitted ISIRs representing the 380 different warehouse operators. Based on the submitted ISIRs, South Coast AQMD staff anticipate that 176,439 WAIRE points will be earned by these companies. Zero emission (ZE) hostler usage, (i.e., yard tractors that move trailers and containers around warehouse facilities), accounts for about 40% of the anticipated actions selected in the ISIRs received. Additional major categories were NZE Class 8 Truck Visits (~27%) and ZE Hostler acquisition (~8%). A complete list of all the anticipated points by category is provided in Appendix B. In addition to taking actions from the WAIRE Menu, operators anticipate earning about 5,500 points through mitigation fees, representing about 3% of total points earned, and about $5.5 million.
Using default assumptions about truck trip rates and building sizes, the analysis in Rule 2305 assumed these warehouses would be required to collectively earn about 61,000 Points for the historical truck trip data provided in ISIRs received. The information reported by warehouse operators in their ISIRs is based on facility-specific information rather than averages used in the rule analysis. The anticipated aggregate WPCO for ISIRs received is approximately 30,000 Points, which is roughly half of the expected amount required. This reported WPCO may have been reduced truck trip data or may be a result of misreporting. Although the anticipated WAIRE Points earned is approximately three times the required amount assumed using default assumptions, staff anticipates this excess of WAIRE Points reported for Phase 1 warehouses will be banked and/or transferred for future compliance of existing warehouses as they are phased into or continue in the program.

Annual WAIRE Report (AWR)

Warehouse operators must submit an Annual WAIRE Report (AWR)\textsuperscript{21} if they meet the same conditions as outlined in the ISIR section above:\textsuperscript{22}

\textsuperscript{21} Pursuant to Rule 316(d), the applicable administrative fee for the AWR filing is $392.50 at the time of submittal.  
\textsuperscript{22} See Rule 2305(b) and (d)(1)
1) Operate in a warehouse building that is greater than or equal to 100,000 square feet of indoor floor space, and

(2) Operate in a warehouse building with greater than or equal to 100,000 square feet of indoor floor space that may be used for warehousing activities.

If the warehouse owner is also the operator, conditions (1) and (2) must be met for an AWR to be required. If the warehouse operator leases space in the building, they must submit an AWR if they also meet the following condition:

(3) Lease greater than or equal to 50,000 square feet of indoor floor space that may be used for warehousing activities.\(^{23}\)

AWRs may also be submitted by a warehouse owner if they chose to voluntarily to earn WAIRE Points. Rule 2305 allows the warehouse owner to transfer earned WAIRE Points to a warehouse operator at the warehouse facility at which the WAIRE Points were earned.

Information required in the AWR includes, but is not limited to, the following:

- The number of truck trips\(^{24}\) for the compliance period, specifying the number of and classification of trucks and tractors that entered or exited the warehouse site.
- The warehouse operator must report how the WPCO was satisfied in terms of how many WAIRE Points were earned from:
  - Each WAIRE Menu action, and/or
  - Actions in an approved Custom WAIRE Plan, and/or
  - Points transferred from another site, the warehouse owner, or banked from a previous year, and/or
  - Mitigation fees (see "WAIRE Mitigation Fee Program" for more details).
- The associated level of implementation using the reporting metrics for WAIRE Points earned from each WAIRE Menu action.\(^{25}\)

AWRs are due by January 31 of the year following the 12-month compliance period. For example, an AWR due January 31, 2023, must document compliance based on data from the compliance period of January 1, 2022 through December 31, 2022. Following the initial compliance period, an AWR is required every year thereafter until the rule sunset date (see Rule 2305(h)). The first AWR due date is based on the warehouse size, as shown in Table 1 of Rule 2305 and Table 1 of this report. If a warehouse operator vacates a warehouse before the AWR due date in any year, they must submit an AWR no later than the date they vacate the warehouse.

**Early Action Annual WAIRE Reports (AWR)**

A warehouse owner or operator may choose to voluntarily submit an Early Action AWR prior to their first compliance period. Rule 2305(d)(6)(B)(iii) allows for early compliance if documented in an AWR immediately following the year in which the action or investment was completed. A warehouse operator may earn WAIRE Points prior to their first compliance period and these WAIRE Points may be banked or

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\(^{23}\) Multiple warehouse operators owned or controlled by a single parent company collectively leasing greater than or equal to 50,000 square feet for warehousing activities in a warehouse do not qualify for this exemption.

\(^{24}\) Truck trip is defined in Rule 2305(c)(25).

\(^{25}\) See Table 3 – WAIRE Menu of Rule 2305.
transferred up to three years after the warehouse operator's first compliance period. A warehouse owner or operator is eligible to submit an Early Action AWR regardless of the implementation phase of the rule they are in (see Table 1 for phase-in schedule), provided they submit the Early Action AWR prior to their first compliance period. Early Action AWRs follow all the same requirements of AWRs, except Early Action AWRs do not require truck trip information or WPCO reporting since they are filed prior to the initial compliance period.

Early Action AWRs were first allowed to be submitted for early actions and/or investments completed between May 7, 2021 (rule adoption date) and December 31, 2021. For Early Action AWRs applicable to the May 7, 2021 through December 31, 2021 compliance period, the due date would have been January 31, 2022. South Coast AQMD accepted Early Action AWRs through April 29, 2022, due to unforeseen delays with the release of the AWR reporting functionality of the WAIRE POP. Additionally, submitters had the option of submitting a hardcopy Early Action AWR with the same content as in the WAIRE POP.

Overall, 24 companies submitted Early Action AWRs for 98 locations. 26 Figure 9 and Figure 10 depict the distribution of locations throughout South Coast AQMD's jurisdiction.

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26 The 98 Early Action AWRs included 11 hardcopy submittals and 87 electronic submittals through WAIRE POP.
Figure 9 - Early Action 2021 Annual WAIRE Reports Received
Early Action AWRs for the 2021 compliance period were submitted by warehouses varying in size, as shown by Figure 11. The majority of the WAIRE Menu actions were implemented by Phase 1 warehouses. South Coast AQMD conducted desktop audits of the 98 reports submitted to verify that the WAIRE menu items selected were implemented after rule adoption. Figure 12 provides an overview of the distribution of WAIRE Points earned through early action AWR WAIRE menu actions implemented in 2021. A complete list of all the menu actions reported by category is provided in Appendix C.
WAIRE Mitigation Fee Program

The Governing Board directed South Coast AQMD to develop a WAIRE Mitigation Fee Program with the funds generated from mitigation fee payments from Rules 2305 and 316. Rule 2305 may generate funds to the WAIRE Mitigation Fee Program if a warehouse operator opts to offset their WAIRE Points Compliance Obligation (WPCO) by purchasing mitigation points through their Annual WAIRE Report (AWR) submittal. Rule 316 generates funds through the administrative fees that warehouse operators must pay to support South Coast AQMD Rule 2305’s compliance activities and supporting administrative functions for the WAIRE Mitigation Fee Program.

The WAIRE Mitigation Fee Program is anticipated to be a larger component of the WAIRE Program as implementation continues through the lifespan of the program. The WAIRE Mitigation Fee Program will be established after Phase 1 warehouses have submitted their initial AWRs and mitigation fee payments are received for the 2022 compliance period. Based on the ISIRs received to-date, approximately 5,544.8 WAIRE Points are anticipated to be earned through the payment of mitigation fees resulting in about
$5,544,800 in total mitigation fee revenues in the first year of the WAIRE Mitigation Fee Program.\(^{27}\) South Coast AQMD staff anticipates the actual revenues from mitigation fees to be higher upon submittal of the AWRs in January 2023 based on feedback from some operators that they are experiencing delays in vehicle/equipment deliveries and/or approvals for ZE infrastructure installations.

When the WAIRE Mitigation Fee Program is established, South Coast AQMD will track mitigation fees paid by warehouse operators according to the Source Receptor Area (SRA), as shown in Figure 13, and county in which they are located. South Coast AQMD has committed to fund projects through the WAIRE Mitigation Fee Program that achieve and/or facilitate emission reductions in the same SRAs and counties in which the mitigation fees were paid. If sufficient projects are not identified in each individual SRA relative to the available funding, South Coast AQMD staff will adhere to Rule 2305's and Rule 316's Resolution and funds may be directed either to an adjacent SRA in the same county or held for a subsequent funding.

\(^{27}\) This number is based on the 37% of ISIRs received through September 30, 2022. South Coast AQMD recognizes this is a preliminary estimation that may increase or decrease depending on the final mechanisms selected during the initial AWR submittals for the 2022 compliance period.
Figure 13 - Source Receptor Areas in South Coast AQMD's Jurisdiction
South Coast AQMD ensures that, prior to WAIRE Mitigation Fee Program solicitations and awards, public outreach will be conducted to community groups, local governments, and small businesses. South Coast AQMD will then propose solicitations and project awards at future Technology Committees and to the Governing Board on an annual basis. South Coast AQMD will also seek Governing Board approval for proposed awards to projects through the WAIRE Mitigation Fee Program.

Additionally, in accordance with Rule 2305’s and Rule 316’s Resolution, South Coast AQMD shall also ensure that:

- Funding from the WAIRE Mitigation Fee Program may be combined with other incentive funding programs, if allowed by the other funding program(s); and
- Any recipients of WAIRE Mitigation Fee Program funds for projects that involve construction work must use a skilled and trained workforce as defined in Public Contract Code section 2601 to perform such work; and
- Any recipients of WAIRE Mitigation Fee Program funds for projects that involve the installation of electric vehicle infrastructure shall: 1) be installed by a contractor with the appropriate license classification, as determined by the Contractors' Contractors' State License Board, and at least one electrician on each crew, at any given time, holds an Electric Vehicle Infrastructure Training Program certification, and 2) meet a requirement that at least 25 percent of the total electricians working on an electric vehicle infrastructure project installing a charging port supplying 25 kW or more, at any given time, hold Electric Vehicle Infrastructure Training Program certification, consistent with the Public Utilities Code section 740.20; and
- Any recipients of WAIRE Mitigation Fee Program incentives or funding for the installation of ZE charging or fueling infrastructure for on-road vehicles that are not yard trucks must make the stations available for public use; and
- Consistent with existing South Coast AQMD funding programs, any recipients of WAIRE Mitigation Fee Program incentives shall disclose any labor violations in the three years prior to receiving funding and during the life of the funded project.

WAIRE Program Enforcement

A key component of WAIRE Program implementation is ensuring that applicable warehouses are aware of and in compliance with the requirements of Rule 2305 and Rule 316. South Coast AQMD staff conducted significant outreach to notify the warehousing industry of compliance requirements for the WAIRE Program. The WAIRE Implementation Guidelines provide an initial overview of the compliance program anticipated at the time of rule adoption. South Coast AQMD will periodically conduct both desk and field audits to verify compliance with the WAIRE Program. An overview of the main requirements for Rule 2305 was provided in the WAIRE Implementation Update section of this report. Rule 316 was developed as a companion rule to support South Coast AQMD's administration and enforcement of the WAIRE Program.

Throughout rule development and in the WAIRE Program's first year of implementation, South Coast AQMD conducted significant outreach to identify warehouses that are subject to the rule. The outreach efforts have included, but are not limited to, mailing hardcopy fliers about the program, hosting webinars, developing online WAIRE Training Videos, presenting requested topics to stakeholders, sending informational emails through eNewsletter Pro, and fielding calls and emails to the WAIRE Program.
Hotline (909-396-3140) and Helpdesk (waire-program@aqmd.gov). For detailed information on the outreach efforts conducted, please refer to the Outreach section in this report.

South Coast AQMD staff have completed desk audits of the reported information from the Early Action AWRs and are in the process of completing audits of the reported information in the WONs and ISIRs. The audits are conducted to verify reported information and assure that the warehouse owners and operators are following recordkeeping requirements. Audits will be an effective tool to verify the methods used by warehouse operators to count truck trips and earn WAIRE Points are reliable and verifiable. Audits will also be conducted to verify exemptions claimed through report submittals. As with other compliance activities conducted by South Coast AQMD, inspectors may conduct unannounced site inspections to see how a facility operates and to verify WAIRE menu actions implemented through the WAIRE Program. If inspectors observe a potential violation, a Notice to Comply (NC) may be issued to request information or to order the facility to take corrective action. If noncompliance with air quality rules is identified, however, a Notice of Violation (NOV) may be issued to inform a business that it is out of compliance with specific South Coast AQMD rule requirements or permit conditions. NOVs are referred to the South Coast AQMD legal department for settlement negotiations and can result in civil penalties. If no settlement is reached, a civil lawsuit may ultimately be filed in superior court.

WAIRE Program Online Portal (POP)

As part of the Resolution for Rule 2305 and Rule 316, the South Coast AQMD Governing Board directed South Coast AQMD staff to develop an online portal to submit required reports and documents as required by Rule 2305. Rule 2305 requires all reporting be submitted by an authorized official of either the warehouse operator, or owner if the WAIRE Points are earned by the owner, through the Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program Online Portal (POP), or WAIRE POP online system. After Governing Board adoption in May 2021, South Coast AQMD staff from Planning, Rule Development, and Implementation and Information Management began developing WAIRE POP to support warehouse owners and operators comply with the reporting requirements set forth by Rule 2305.

Development

Following the adoption of Rule 2305 in May 2021, South Coast AQMD began working with a South Coast AQMD prequalified contractor, AgreeYa Solutions, Inc., in the development and design of the WAIRE POP that warehouse owners and operators would use to submit their Rule 2305 compliance reports. The software system was developed to provide South Coast AQMD the ability to track warehouse owner or operator activities recorded through the various reporting requirements set forth by the rule, such as those related to implementing, acquiring, or using near zero emissions (NZE) and/or zero emissions (ZE) on-road trucks, ZE cargo handling equipment, ZE charging/fueling infrastructure, solar

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28 Rule 2305 requires that all records used to demonstrate compliance with all reporting requirements shall be maintained by warehouse operators (or owners if applicable) for a period of no less than seven years and made available to South Coast AQMD upon request during normal business hours to determine compliance.

29 See Rule 2305(g) and Rule 316(h).

30 More information can be found on the South Coast AQMD website: [https://www.aqmd.gov/nav/about/authority/enforcement](https://www.aqmd.gov/nav/about/authority/enforcement).
panels, or air filtration systems installed or replaced at residences, schools, daycares, hospitals, or community centers.

The contractor issued a draft charter document to develop and deploy the online reporting portal for warehouse owners and operators to submit Warehouse Operation Notification (WON) reports, Initial Site Information Reports (ISIR), and Annual WAIRE Reports (AWR). The project was separated into two major phases, as depicted in Figure 14:

- Phase 1, consisting of Phase 1.1 and Phase 1.2:
  Phase 1.1 was to develop publicly available web portal where warehouse owners and operators can register, submit, and pay for their WON report. Phase 1.2 was to develop a mechanism for South Coast AQMD staff to process report data into the WAIRE POP database.

- Phase 2 of the WAIRE POP development included adding new features to provide internal and external users the ability to file AWRs and ISIRs through the WAIRE POP system.

South Coast AQMD worked with the contractor and participated in project planning activities and tasks which included daily status meetings for 18-months, project milestones tasks, user meetings, and different planning sessions to work on the deliverables based upon meetings and discussions. During the meetings, South Coast AQMD was involved in providing background information about Rule 2305 and making sure that the information provided on the WAIRE POP were easy-to-understand and applicable to all the end users. Upon approval of the software requirement specifications, functional design and performance of the design activities, the contractor was able to build the software components in stages for testing based upon meetings and discussions conducted with South Coast AQMD.

A test version of WAIRE POP online system was rolled out by the contractor on the Stage environment for testing and evaluation internally by South Coast AQMD. The purpose of the testing phase was to verify that the WAIRE POP was working correctly. During the testing period, the contractor and South Coast AQMD check every page of the program to ensure there are no errors or bugs in the structure,
content, functionality, and performance of the WAIRE POP online system. South Coast AQMD also accessed the user-friendliness and the feasibility of the detailed, step-by-step process during testing and was able to identify potential problems, errors, and proposed corrective procedures prior to rolling out WAIRE POP for external users.

Phase 1.1 of WAIRE POP for Warehouse Operation Notification (WON) report submission was deployed in August 2021 for warehouse owners to submit the required report and associated fee. Throughout the web development and subsequent phases of the WAIRE POP release, South Coast AQMD provides continuous feedback to Information Management and the contractor the scopes of improvements from user interactions and make necessary modifications and enhancements to the WAIRE POP. Every phase of the program development is significant, South Coast AQMD continues to work with Information Management and the contractor to perform continuous testing during each phase of the WAIRE POP to make sure that each section is working properly in its place and all sections are working efficiently within the whole system.

Implementation
Following the adoption of Rule 2305 and Rule 316, multiple channels of outreach were used to inform warehouse owners and operators of the WAIRE Program and associated requirements. The WAIRE Program Hotline (909-396-3140) and Helpdesk email inbox (waire-program@aqmd.gov) were established to directly assist warehouse owners and operators with WAIRE Program questions and information about the program. The hotline and email address are also used to provide outreach, respond to compliance questions, and schedule individual facility consultations. Staff developed guidance resources to assist warehouse owners and operators in submitting the reports as required by Rule 2305, and to provide information to the public about rule compliance options. The Rule 2305 WAIRE Program Compliance Website (www.aqmd.gov/waire) went live in June 2021. This new compliance website included compliance alerts for the WAIRE Program and served as the main hub for the following guidance resources: the WAIRE Program Implementation Guidelines, online WAIRE Training Videos, the Frequently Asked Questions (FAQs) document, WAIRE User Calculator, and WAIRE upcoming compliance due dates.

To assist warehouse owners and operators with a better understanding of WAIRE Program requirements and compliance options for Rule 2305, the South Coast AQMD staff created a series of online Training Videos on different topics related to WAIRE Program compliance. The Training Videos were also uploaded on the WAIRE Program Compliance website (www.aqmd.gov/waire) so users may view these trainings at their own convenience. The WAIRE Training Videos were created to provide detailed information and explain key points of Rule 2305, such as counting truck trips, early action WAIRE Points, and instructions for the different reports required by the rule, in 5-to-15-minute segments. The Training Videos also provide a step-by-step tutorial in how to navigate and submit reports on the WAIRE POP online system. There are currently nine Training Videos on the following topics: WAIRE Program Overview, Truck Trips Counting for WPCO, Early Action Opportunities to Earn WAIRE Points, Overview of WON, WON Spreadsheet Template, WAIRE POP for WONs, Early Action AWR, Overview of ISIR, and WAIRE POP for ISIR More videos are currently under development and will be released in conjunction with future enhancements to the WAIRE POP as they are deployed to the external users. Figure 15 below represents a simplified diagram of the WAIRE Training Video developmental process.
A series of WAIRE Compliance Webinars were presented by South Coast AQMD to provide training for Rule 2305 compliance. The first introductory webinar was held on June 30, 2021, Staff presented Training Videos #1-3 followed by a Questions and Answer session on 3 topics: the WAIRE Program Overview, Truck Trip Counting, and Early Action Opportunities. South Coast AQMD has hosted 6 WAIRE Compliance Program Training Webinars since rule adoption. The goals of the WAIRE Compliance Webinars are to educate and provide guidance resources about Rule 2305 and to facilitate a successful Questions-and-Answers session that is of interest to all stakeholders.

**Outreach**

**Implementation Efforts**

As part of the Resolution for Rule 2305 and Rule 316, the South Coast AQMD Governing Board directed South Coast AQMD staff to conduct outreach to applicable warehouse owners and operators and provide training and guidance on how to comply with Rule 2305 with emphasis on warehouse operators that are small businesses. As part of the outreach plan, South Coast AQMD staff setup the Rule 2305 WAIRE Program Compliance Website (www.aqmd.gov/waire), which went live in June 2021. There have been over 21,100 visits to the website since June 2021. This website was designed to provide a central hub for all web-based resources to assist warehouse owners and operators subject to the rule requirements by providing online access to compliance guidance documents such as the:

- WAIRE Program Implementation Guidelines,
• WAIRE Training Videos,
• Frequently Asked Questions (FAQs) document,
• WAIRE User Calculator, and
• WAIRE upcoming compliance due dates.

South Coast AQMD also has a dedicated WAIRE Program Hotline (909-396-3140) and Helpdesk (waire-program@aqmd.gov) to provide guidance on Rule 2305 requirements, especially reporting requirements. Since rule adoption, South Coast AQMD has responded to over 1,900 calls and emails to the WAIRE Program Hotline and Helpdesk.

In addition to public virtual outreach efforts, over 5,000 compliance advisory mailers were sent to all warehouse owners that have warehouse facilities potentially applicable to Rule 2305. The mailers were sent to the warehouse owners to inform warehouse owners of their obligations and to submit the Warehouse Operations Notification (WON). South Coast AQMD have sent over 21,413 informational emails about WAIRE Program resources, conducted multiple in person and virtual webinar presentations to warehouse owners/operators, elected/appointed officials, community/environmental organizations, consultants, AB 617 Community Steering Committees, various trade associations, and chambers of commerce.

South Coast AQMD also held 6 publicly noticed WAIRE Compliance Webinars and recorded 9 Compliance Training Videos with detailed guidance on how to comply with Rule 2305. The Compliance Training Videos were uploaded on the WAIRE Program Compliance website so users may view these trainings at their own convenience, there have been over 2,122 views of the Compliance Training Videos outside of webinars. South Coast AQMD staff continued to work with Legislative, Public Affairs & Media Office staff to reach out to new and existing warehouse operators and owners on the requirements of Rule 2305, increase awareness of their obligations and the steps that can be made to meet them. South Coast AQMD staff is currently utilizing data from the WON reporting to conduct outreach to Phase 1 warehouse operators to advise of Rule 2305 requirements, including tracking truck trips and earning WAIRE Points for the 2022 compliance period.

Next Steps

The first year of implementation for the WAIRE Program was primarily focused on program development, outreach and providing technical support for warehouse owners and operators subject to Rule 2305. Development of the WAIRE Program Online Portal (POP) was a significant undertaking to design, program, test and deliver a user-friendly software reporting tool for warehouse owners and operators subject to Rule 2305 within a very short timeframe to meet the initial reporting due dates established by the rule. South Coast AQMD staff also focused on outreach and developing implementation guidelines, a Frequently Asked Questions document, fact sheets, training videos and other materials to provide technical support for the approximate 3,400 warehouses that are anticipated to be subject to Rule 2305. Given the initial reporting statistics, staff understand the importance of outreach to inform the universe of warehouses potentially subject to Rule 2305 and the requirement to complete certain actions and/or investments to meet their compliance obligations under the rule, with the goal of increasing compliance from warehouse owners and operators.

Figure 16 identifies the activities that will be completed by South Coast AQMD in the next iteration of this report. For example, after rule adoption, operators requested a campus-style grouping for instances
where they had adjacent facilities operating as one warehouse despite occupying multiple buildings. Staff has drafted guidance to accommodate a proposed approach for campus-style report filings. Once the draft guidance has been approved by the Executive Officer, it will be added as an appendix to the WAIRE Implementation Guideline as an option for future report compliance.

*Figure 16 - Overview of Future WAIRE Program Activities*
Appendix A: Warehouse Indirect Source Rule (ISR) Implementation in Assembly Bill 617 (AB 617) Communities

Introduction

Assembly Bill 617 (AB 617) is a 2017 California law that addresses disproportionate impacts of air pollution in environmental justice communities. Since AB 617’s first year of implementation in 2018, South Coast AQMD has designated six communities for participation in the program:

- Year 1 Communities (2018)
  - East Los Angeles, Boyle Heights, West Commerce (ELABHWC)
  - San Bernardino, Muscoy (SBM)
  - Wilmington, Carson, West Long Beach (WCWLB)
- Year 2 Communities (2019)
  - Eastern Coachella Valley (ECV)
  - Southeast Los Angeles (SELA)
- Year 3 Community (2021)
  - South Los Angeles (SLA)

AB 617 requires South Coast AQMD to work with each community to develop and adopt a Community Emissions Reduction Plan (CERP) one year from designation. To achieve this goal, each community establishes a Community Steering Committee (CSC), comprised of people who may live, work, own businesses, or attend school within the community, to lead the CERP development process in partnership with South Coast AQMD and the California Air Resources Board (CARB). Through the CERP development process, the CSC identifies air quality priorities and works with diverse entities (e.g., regulatory agencies, local organizations) to develop exposure or emission reduction measures to address those air quality priorities.

All six of the AB 617 communities within South Coast AQMD’s jurisdiction identified impacts from neighborhood truck traffic or diesel mobile sources as an air quality priority for their respective communities due to the impact from these sources on a day-to-day basis. For example, the community of WCWLB is home to the Port of Long Beach and Port of Los Angeles (Ports). The Ports serve as a gateway for the world's markets through the movement of goods. These goods are transported to and from the Ports by ships, trains, and heavy-duty trucks. Trucks travel along freeways that pass through the AB 617-designated communities and often travel near and through local neighborhoods to reach their destinations thus exposing residents to harmful air pollutants.

NOx is the primary pollutant that needs to be reduced to meet federal and state air quality standards, and mobile sources associated with goods movement make up about 52 percent of all NOx emissions in the

31 California Health and Safety Code Section 44391.2
33 AB 617 related air quality priorities include neighborhood and freeway traffic from trucks and automobiles, neighborhood truck traffic, diesel mobile sources, truck traffic and freeways, and mobile sources.
South Coast Air Basin. Trucks are the largest source of NOx emissions in the air basin and for the emissions associated with warehouses. Truck activity is focused at warehouses, which as the Socioeconomic Impact Assessment identifies, are disproportionately located in disadvantaged communities. The population within 0.5-mile of a large warehouse has a population-weighted average CalEnviroScreen 3.0 (CES 3.0) Score of 46.6 (85th percentile statewide), while the South Coast AQMD jurisdiction has a population weighted average CES 3.0 Score of 33.9 (67th percentile statewide). The Final Socioeconomic Impact Assessment for Rule 2305 and Rule 316 identified that risks posed from PM2.5 and DPM are also higher for populations located within 0.5-mile of warehousing facilities.

Public health benefits to disadvantaged communities were identified as part of the analysis for the benefits of Rule 2305 and Rule 316 at the time of adoption. Public health is on the forefront of the minds of the community members participating in the AB 617 program. Although South Coast AQMD does not conduct public health studies, community groups often come to South Coast AQMD as a data source for emissions information so that they may then work with other entities or conduct a health study themselves. Therefore, South Coast AQMD anticipates that community groups affiliated with AB 617 or other environmental justice efforts, will seek additional data related to the WAIRE Program implementation. Overtime, in addition to this report, South Coast AQMD plans to release WAIRE Program related data through its Facility INformation Detail (F.I.N.D.) tool as well. South Coast AQMD is actively working with District Counsel and Information Management to determine how F.I.N.D. may be updated to support such data inquiries.

In this iteration of the WAIRE Program Annual Report, Figure A-1 through Figure A-6 provide a visual representation of potential warehouse locations within each AB 617 designated community within South Coast AQMD's jurisdiction.
Year 1 Communities
East Los Angeles, Boyle Heights, West Commerce (ELABHWC)

*Figure A-1 – Potential Warehouses Located in East Los Angeles, Boyle Heights, West Commerce (ELABHWC) by Phase*
San Bernardino, Muscoy (SBM)

Figure A-2  Potential Warehouses Located within San Bernardino, Muscoy (SBM) by Phase

Legend
- Community Boundary
- Emission Study Area
- Phase 1 Warehouses*
- Phase 2 Warehouses*
- Phase 3 Warehouses*

*Based on CoStar data as of July 2022
Wilmington, Carson, West Long Beach (WCWLB)

*Figure A-3 Potential Warehouses Located within Wilmington, Carson, West Long Beach (WCWLB) by Phase*

Legend
- Purple: Community Boundary
- Yellow: Phase 1 Warehouses*
- Orange: Phase 2 Warehouses*
- Blue: Phase 3 Warehouses*

*Based on CoStar data as of July 2022*
Year 2 Communities
Eastern Coachella Valley (ECV)

*Figure A-4 – Potential Warehouses Located within Eastern Coachella Valley (ECV) by Phase*
Southeast Los Angeles (SELA)

*Figure A-5  Potential Warehouses Located within Southeast Los Angeles (SELA) by Phase*
Year 3 Community
South Los Angeles (SLA)

Figure A-6 Potential Warehouses Located within South Los Angeles (SLA) by Phase
Appendix B: Initial Site Information Report (ISIR) WAIRE Menu Items Anticipated

This table provides a complete list of all the anticipated WAIRE Points earned by WAIRE menu item name, or category, reported in the Initial Site Information Reports (ISIRs) received through September 30, 2022. This table also includes the number of times, or occurrence\(^{34}\), a category was selected in those ISIRs. Mitigation points are also listed in the table, although they are not part of Table 3: WAIRE Menu in Rule 2305.

<table>
<thead>
<tr>
<th>Menu Item Name</th>
<th>WAIRE Points</th>
<th>Occurrence(^{34})</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZE Hostler Usage</td>
<td>71,575.8</td>
<td>59</td>
</tr>
<tr>
<td>NZE Class 8 Truck Visits</td>
<td>49,926.1</td>
<td>57</td>
</tr>
<tr>
<td>ZE Hostler Acquisitions</td>
<td>13275</td>
<td>56</td>
</tr>
<tr>
<td>ZE Class 8 Truck Visits</td>
<td>10,223.5</td>
<td>84</td>
</tr>
<tr>
<td>ZE Class 8 Truck Acquisitions</td>
<td>6,930</td>
<td>8</td>
</tr>
<tr>
<td>NZE Class 4-7 Truck Visits</td>
<td>4,020.6</td>
<td>17</td>
</tr>
<tr>
<td>Finalize TRU Plug project</td>
<td>3,444</td>
<td>2</td>
</tr>
<tr>
<td>Begin Construction on TRU Plug project</td>
<td>2,760</td>
<td>7</td>
</tr>
<tr>
<td>Finalize 19.2-350 kW charger project</td>
<td>2360</td>
<td>40</td>
</tr>
<tr>
<td>Rooftop Solar Panel Installations</td>
<td>2,353.6</td>
<td>6</td>
</tr>
<tr>
<td>TRU Plug Acquisition</td>
<td>1,641</td>
<td>4</td>
</tr>
<tr>
<td>Charger Usage</td>
<td>1537.1</td>
<td>72</td>
</tr>
<tr>
<td>150-350 kW EVSE Acquisition</td>
<td>1,298</td>
<td>11</td>
</tr>
<tr>
<td>TRU Plug Usage</td>
<td>1,089.5</td>
<td>6</td>
</tr>
<tr>
<td>51-149 kW EVSE Acquisition</td>
<td>663</td>
<td>13</td>
</tr>
<tr>
<td>Solar Panel Usage</td>
<td>509</td>
<td>45</td>
</tr>
<tr>
<td>Up to 19.2 kW EVSE Acquisition</td>
<td>275</td>
<td>55</td>
</tr>
<tr>
<td>Finalize up to 19.2 kW charger project</td>
<td>250</td>
<td>50</td>
</tr>
<tr>
<td>19.2-50 kW EVSE Acquisition</td>
<td>208</td>
<td>8</td>
</tr>
<tr>
<td>Begin Construction on 19.2-350 kW charger project</td>
<td>189</td>
<td>21</td>
</tr>
<tr>
<td>Begin Construction on up to 19.2 kW charger project</td>
<td>140</td>
<td>28</td>
</tr>
<tr>
<td>ZE Class 4-7 Truck Acquisitions</td>
<td>136</td>
<td>2</td>
</tr>
<tr>
<td>ZE Class 2b-3 Truck Acquisitions</td>
<td>98</td>
<td>2</td>
</tr>
<tr>
<td>H2 Station Usage</td>
<td>83.9</td>
<td>3</td>
</tr>
<tr>
<td>Filter System Installations</td>
<td>50.6</td>
<td>2</td>
</tr>
<tr>
<td>Filter Purchases</td>
<td>29.2</td>
<td>2</td>
</tr>
<tr>
<td>ZE Class 2b-3 Truck Visits</td>
<td>7.4</td>
<td>4</td>
</tr>
<tr>
<td>ZE Class 4-7 Truck Visits</td>
<td>6.7</td>
<td>4</td>
</tr>
<tr>
<td>Mitigation Fee Points</td>
<td>5,544.8</td>
<td>109</td>
</tr>
</tbody>
</table>

\(^{34}\) These occurrences may differ from menu option to menu option. For example, the number of occurrences that corresponds to “Finalize 19.2-350 kW charger project” reflects the number of individual chargers, or EVSE, that are anticipated to complete final energization or permit sign off in the 2022 compliance period.
Appendix C: Early Action Annual WAIRE Report (AWR) WAIRE Menu Items Implemented

This table provides a complete list of all the reported WAIRE Points earned by WAIRE menu item name, or category, reported in the Early Action Annual WAIRE Reports (AWRs) received for the 2021 compliance period (from May 7, 2021, to December 31, 2021). This table also includes the number of times, or occurrence, a category was selected in those Early Action AWRs.

<table>
<thead>
<tr>
<th>Menu Item Name</th>
<th>WAIRE Points</th>
<th>Occurrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZE Hostler Usage</td>
<td>29841.8</td>
<td>28</td>
</tr>
<tr>
<td>NZE Class 8 Truck Visits</td>
<td>7850.9</td>
<td>57</td>
</tr>
<tr>
<td>Finalize 19.2-350 kW charger project</td>
<td>5369</td>
<td>91</td>
</tr>
<tr>
<td>ZE Hostler Acquisitions</td>
<td>4425</td>
<td>26</td>
</tr>
<tr>
<td>Rooftop Solar Panel Installations</td>
<td>1129.2</td>
<td>5</td>
</tr>
<tr>
<td>ZE Class 8 Truck Visits</td>
<td>602.6</td>
<td>28</td>
</tr>
<tr>
<td>Charger Usage</td>
<td>216.2</td>
<td>27</td>
</tr>
<tr>
<td>Solar Panel Usage</td>
<td>123.9</td>
<td>23</td>
</tr>
<tr>
<td>Begin Construction on 19.2-350 kW charger project</td>
<td>108</td>
<td>12</td>
</tr>
<tr>
<td>51-149 kW EVSE Acquisition</td>
<td>51</td>
<td>1</td>
</tr>
<tr>
<td>ZE Class 8 Truck Acquisitions</td>
<td>45.6</td>
<td>2</td>
</tr>
<tr>
<td>Begin Construction on up to 19.2 kW charger project</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>ZE Class 2b-3 Truck Acquisitions</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>ZE Class 2b-3 Truck Visits</td>
<td>2.7</td>
<td>1</td>
</tr>
<tr>
<td>NZE Class 4-7 Truck Visits</td>
<td>0.1</td>
<td>1</td>
</tr>
</tbody>
</table>

35 These occurrences may differ from menu option to menu option. For example, the number of occurrences that corresponds to “Finalize 19.2-350 kW charger project” reflects the number of individual chargers, or EVSE, that completed the final energization or permit sign off in the 2021 compliance period.