

# Final Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

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Prepared for:

West Sacramento Area Flood  
Control Agency



February 2020

Prepared by:



Consulting  
Engineers and  
Scientists



**Final  
Supplemental Environmental Impact Report  
Southport Sacramento River  
Early Implementation Project**

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February 2020

Project No. 1605750

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# Abbreviations and Acronyms

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|          |   |
|----------|---|
| Board    | Board of Directors  |
| CCR      | California Code of Regulations                                |
| CDFW     | California Department of Fish and Wildfire                    |
| CEQA     | California Environmental Quality Act                          |
| CVRWQCB  | Central Valley Regional Water Quality Control Board's         |
| CCR      | Code of Regulations   |
| EIP      | Early Implementation Project                                  |
| EIR      | Environmental Impact Report                                   |
| EPA      | Environmental Protection Agency                               |
| EIR      | Final Supplemental Environmental Impact Report                |
| HCP/NCCP | Habitat Conservation Plan/Natural Community Conservation Plan |
| NPDES    | National Pollutant Discharge Elimination System               |
| NOP      | Notice of Preparation   |
| OPR      | Office of Planning and Research                               |
| PPU      | Preserve Planning Unit  |
| SRWTP    | Sacramento Regional Wastewater Treatment Plant                |
| SSHCP    | <i>South Sacramento Habitat Conservation Plan</i>             |
| SWRCB    | State Water Resources Control Board                           |
| WSAFCA   | West Sacramento Area Flood Control Agency                     |

# Chapter 1. Introduction

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The West Sacramento Area Flood Control Agency (WSAFCA) as lead agency, has prepared this Final Supplemental Environmental Impact Report (EIR) to provide other responsible agencies and the public with information about the potential environmental effects from use of stockpiled soil at the Sacramento Regional Wastewater Treatment Plant (SRWTP) as borrow material for restoration of borrow sites used for construction of the Southport Sacramento River Early Implementation Project (EIP). The Southport Sacramento River EIP Site consists of areas located along the Sacramento River South Levee, where flood risk-reduction measures were implemented, and borrow sites east of Jefferson Boulevard in the City of West Sacramento, Yolo County, California. The Final Supplemental EIR was prepared in compliance with the California Environmental Quality Act (CEQA) of 1970 (as amended) and the State CEQA Guidelines (California Code of Regulations [CCR] title 14, Section 15000 et seq.).

## 1.1 Final Supplemental EIR Background

WSAFCA prepared an EIR for the Southport Sacramento River EIP, which was certified in August 2014 (2014 EIR). WSAFCA also prepared a Subsequent EIR for use of the Borrow One Site, to provide an additional location for sourcing borrow material during project construction, which was certified in April 2016.

Construction of the Southport Sacramento River EIP features was substantially completed in 2018. Construction included excavation of borrow material from sites identified in the 2014 EIR in the City of West Sacramento to supply fill materials. WSAFCA needs to import up to 600,000 cubic yards (CY) of material to restore approximately 89.1 acres of borrow sites (referred to as restoration sites) excavated for the project to desired elevations and contours. Since construction of the project was completed in 2018, the borrow sites are currently disturbed and restoration is desired as soon as possible for many reasons, including erosion control and planned future uses of the sites.

Restoration of borrow sites is identified as a project activity in the 2014 EIR; however, potential borrow sites identified in the 2014 EIR were either subsequently used for project construction or are not currently available for sourcing fill material. Accordingly, fill material for restoration of the project borrow sites is proposed by WSAFCA to be sourced from surplus soil stockpiles at the SRWTP (referred to as the SRWTP Borrow Site). WSAFCA has confirmed that the stockpiled soil there is of suitable quality for the proposed project and the quantity of material needed for the proposed project—up to 600,000 CY—is available. Use of the SRWTP Borrow Site (project or proposed project) was not specifically identified in the 2014 EIR or Subsequent EIR and was the focus of the Supplemental EIR.

## 1.2 Final Supplemental EIR Context

WSAFCA's Board of Directors (Board) is considering the proposed project which involves use of the SRWTP Borrow Site and will ultimately consider the Supplemental EIR in combination with the 2014 EIR.

The proposed project is intended to meet the following objectives:

- Restore the Southport Sacramento River EIP borrow sites to land elevations and contours desired by the landowners.
- Restore the Southport Sacramento River EIP borrow sites as soon as possible to fulfill previously executed landowner agreements.
- Source borrow material of suitable quality, condition, and quantity to restore the Southport Sacramento River EIP borrow sites.
- Avoid or minimize to the extent possible additional land disturbances and restoration requirements for sourcing of new borrow material.

The project objectives are focused on completing restoration of areas disturbed by the Southport Sacramento River EIP to satisfy commitments to landowners. Since construction of the project was completed in 2018, the borrow sites are currently disturbed and restoration is desired as soon as possible for several reasons, including landowner commitments, erosion control, site safety, and planned future uses of the sites.

The proposed project was evaluated in a Draft Supplemental EIR in accordance with CEQA and the State CEQA Guidelines and was circulated for a 45-day public review period. CEQA requires the lead agency to prepare a Final EIR, addressing all substantive comments received on the Draft Supplemental EIR before approving a project. The Final EIR must include a list of all individuals, organizations, and agencies that provided comments on the Draft EIR and must contain copies of all comments received during the public review period along with the lead agency's responses.

The Final Supplemental EIR will be distributed to public agencies that provided comments 10 days prior to certifying the Final Supplemental EIR. At the close of the 10-day public agency review period, WSAFCA's Board will review the Final Supplemental EIR, consider staff recommendations and public testimony, and decide whether to certify the Final Supplemental EIR and approve or deny the proposed project. Upon certification of the Final Supplemental EIR and approval of the proposed project, WSAFCA will file a Notice of Determination with the State Office of Planning and Research (OPR) and at the office of the Sacramento and Yolo County Clerk offices (14 CCR 15093[c]).

## 1.3 Comments on the Draft Supplemental EIR

The Draft Supplemental EIR was submitted to the State Clearinghouse for distribution to state agencies and was available to agencies and the public for review and comment for 45 days between September 23, 2019 to November 6, 2019. A public meeting was conducted on October 8, 2019 to receive oral and written comments. No members of the public spoke at that meeting. Letters of comment were received from State and regional/local agencies.



## 1.4 Organization and Comments on the Final Supplemental EIR

The Final Supplemental EIR will be the subject of a hearing to certify the Supplemental EIR.

Chapter 1, *Introduction*. This chapter presents the Final Supplemental EIR context and its objectives, summarizes the public review period for the Draft Supplemental EIR, and describes the organization and contents of the Final Supplemental EIR.

Chapter 2, *Summary of Public Participation*. This chapter summarizes the environmental and public review process, pursuant to CEQA.

Chapter 3, *Comment Letters and Responses to Comments*. This chapter lists and gives identifiers to agencies that commented on the Draft Supplemental EIR during the public review process, replicates in full the comments received, and gives responses to those comments. Comments within each letter are numbered sequentially. Excerpts of text from the Draft Supplemental EIR that have changed as a result of the comment/response are shown within the response, for ease of reference.

Chapter 4, *Revisions to the Draft Supplemental EIR*. This chapter provides excerpts of all text from the Draft Supplemental EIR that have changed as a result of the comment/response and are shown within the response, for ease of reference. Revisions are shown with strikethrough text for deletions and underlined text for additions.

*Appendix A*. Presents the Draft Supplemental EIR Notice of Availability and Distribution List

*Appendix B*. Presents the Public Meeting Presentation and Sign-In Sheets

*Appendix C*. Presents the Mitigation Monitoring and Reporting Program

*Appendix D*. Presents Updated Air and Greenhouse Gas Emissions Modelling

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# Chapter 2. Summary of Public Participation

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Public disclosure and informed decision-making are priorities under CEQA. CEQA mandates two periods during the EIR process when public and agency comments on the impacts of a proposed project are solicited: 1) during the scoping comment period, and 2) for a Draft EIR, during the public review period. This chapter summarizes WSAFCA's efforts to comply with CEQA mandates for public disclosure.

## 2.1 Notice of Preparation and Public Scoping

Scoping refers to the public outreach process used under CEQA to determine the coverage and content of an EIR. The scoping comment period offers an important early opportunity for public review and comment on the focus of the CEQA analysis. The scoping process for an EIR is initiated by publication of the Notice of Preparation (NOP), as required by CEQA, which provides formal notice to the public and to interested agencies and organizations that a Draft EIR is in preparation. During the scoping period, agencies and the public are invited to comment on the project, the approach to the environmental analysis, and any issues of concern to be discussed in the Draft EIR. Scoping also can assist the lead agency with identification of project alternatives and mitigation measures. CEQA does not require public meetings during the scoping phase, unless the project is of statewide, regional or areawide significance.

In accordance with State CEQA Guidelines (14 CCR 15082[a], 15103, 15375), WSAFCA circulated a NOP of a Supplemental EIR for the proposed project on July 12, 2019 (Appendix A of the Draft Supplemental EIR). The NOP, in which WSAFCA was identified as lead agency for the proposed project, was circulated to the public; State Clearinghouse; responsible, trustee, and other relevant local, State, and Federal agencies; and to the Yolo County Clerk. The NOP was circulated to the Sacramento County Clerk on July 29, 2019. The scoping period began July 12, 2019 and ended August 27, 2019, except in Sacramento County where the 30-day scoping period began July 29, 2019 and ended August 27, 2019.

The purpose of the NOP was to inform responsible agencies and the public that the proposed project could have significant effects on the environment and to solicit their comments so that any concerns raised could be considered during the preparation of the Draft Supplemental EIR. In addition, WSAFCA held a public scoping meeting on August 14, 2019, at the West Sacramento City Hall, in the City of West Sacramento, to provide the public with another opportunity to comment. Comments received in response to the NOP are included in Appendix A of the Draft Supplemental EIR, and the preparers of the Draft Supplemental EIR considered these comments.

## **2.2 Notice of Availability of the Draft Supplemental EIR and Public Review**

After the Draft Supplemental EIR was completed, WSAFCA issued a Notice of Availability, providing agencies and the public with formal notification that the document was available for review. The notice was sent to the State CEQA Clearinghouse, all responsible and trustee agencies, persons and organizations requesting a copy, and the Sacramento and Yolo County Clerk offices for posting. The notice also was published in the Sacramento Bee. These actions triggered a 45-day public review period (September 23, 2019 through November 6, 2019), during which WSAFCA received public and agency comments on the project and the document. WSAFCA hosted a public hearing after release of the document on October 8, 2019, at the West Sacramento City Hall in West Sacramento. The purpose of public circulation and the public hearing was to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the Draft Supplemental EIR. Written comments or questions concerning the Draft Supplemental EIR could be submitted within the review period. Submittal of written comments via e-mail was encouraged. During the review period for the Draft Supplemental EIR, all documents related to the proposed project were available for review on any weekday between the hours of 8:00 a.m. and 5:00 p.m. Monday through Friday at the WSAFCA office and on WSAFCA's Web site.

## **2.3 Preparation of the Final Supplemental EIR and Public Hearing**

CEQA requires the lead agency to prepare a Final EIR, addressing all substantive comments received on the Draft EIR before approving a project. The Final EIR must include a list of all individuals, organizations, and agencies that provided comments on the Draft EIR and must contain copies of all comments received during the public review period along with the lead agency's responses. After review of the Final Supplemental EIR, WSAFCA staff will recommend to WSAFCA's Board of Directors whether to approve or deny the proposed project. This governing body then will review the Final Supplemental EIR, consider the WSAFCA staff recommendations and public testimony, and decide whether to certify the Final Supplemental EIR and approve or deny the proposed project. If significant impacts are identified in the Final Supplemental EIR that cannot be mitigated, a statement of overriding considerations must be included in the record of the proposed project approval and mentioned in the Notice of Determination, to be filed with the State OPR and at the office of the Sacramento and Yolo County Clerk's (14 CCR 15093[c]).

# Chapter 3. Comment Letter and Responses to Comments

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## 3.1 Comments Introduction

Comments provided on the Draft Supplemental EIR by agencies, organizations, and individuals during the public review period are documented in this chapter. Comments were submitted by letter and email. No comments were received at public meetings for the proposed project. A list of all commenters is provided in Section 3.2. WSAFCA received comments from three agencies, containing a total of 30 comments. Copies of comment letters and responses to all comments are presented in Section 3.3.

## 3.2 List of Comment Letters Received

The comment letters received on the Draft Supplemental EIR were sorted by date. They were then assigned a letter designation on this basis. The commenters and identifiers are presented in order of receipt and type of agency in Table 3-1.

| Letter Identifier              | Commenter   | Date of Comment  |
|--------------------------------|---|------------------|
| <b>Regional/Local Agencies</b> |   |                  |
| A                              | Sacramento Metropolitan Air Quality Management District | October 8, 2019  |
| <b>State Agencies</b>          |   |                  |
| B                              | Central Valley Regional Water Quality Control Board     | October 23, 2019 |
| C                              | California Department of Fish and Wildlife              | November 6, 2019 |

## 3.3 Comments and Responses to Comments

This section presents a copy of each comment letter that was received on the Draft Supplemental EIR during the review period, bracketing the individual comments in alpha and numeric order. Responses to issues raised in each letter follow immediately after the letter, sequentially.

### 3.3.1 Comment Letter A – Sacramento Metropolitan Air Quality Management District



Letter A

October 8, 2019

SENT VIA EMAIL

Mr. Greg Fabun  
West Sacramento Area Flood Control Agency  
1110 West Capitol Avenue  
West Sacramento, CA 95691

Draft Supplemental Environmental Impact Report  
Southport Sacramento River Early Implementation Project  
(SAC201301479)

Dear Mr. Fabun:

Thank you for providing the Draft Supplemental Environmental Impact Report (DSEIR) for the Southport Sacramento River Early Implementation project to the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District) for review. The DSEIR covers soil hauling from the Sacramento Regional County Sanitation District wastewater treatment plant site to Southport for restoration work. Sac Metro Air District staff comments follow.

#### Section 3.3.5 - Air Quality

1. Calculate and disclose the off-site mitigation fee included as measure AIR-MM-7. | A-1
2. Correct the second bullet in measure AIR-MM-7 to reference nitrogen oxide emissions (NOX) rather than "GHG." | A-2

#### Appendix B – Air and Greenhouse Gas Emissions Modeling

3. It does not appear that modeling information is included for activities occurring in Yolo County that are reported in the air quality and climate change sections. | A-3
4. The appendix includes the annual, summer and winter reports for the CalEEMod run prepared to estimate emissions from activities occurring in Sacramento County. Some inputs and changes to default information in the model do not match the narrative or mitigation measures in the DSEIR. | A-4
  - a. Measure AIR-MM-6 on page 3-10 in the DSEIR requires a 10% reduction in NOX emissions from the off-road construction fleet. The CalEEMod input includes application of a mitigation measure to reduce off-road construction NOX emissions by 20% using oxidation catalysts. This input overestimates expected NOX reductions. | A-4
  - b. The CalEEMod input includes application of a mitigation measure to assume the construction off-road equipment would consist of Tier 2 equipment. This modification results in emissions being greater in the mitigated emissions scenario than the unmitigated emissions scenario. Sac Metro Air District recommends using the default off-road construction equipment calculations in CalEEMod and calculating any exhaust emissions mitigation off-model. | A-5
  - c. The amount of haul material was input as 60,000 cubic yards, although the DSEIR narrative noted 600,000 cubic yards of haul material. This would impact the fugitive | A-6

777 12th Street, 3rd Floor ■ Sacramento, CA 95814-1908  
916/874-1800 ■ 916/874-4899 fax  
www.airquality.org

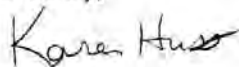
Draft Supplemental Environmental Impact Report  
Southport Sacramento River Early Implementation Project  
October 8, 2019  
Page 2

- dust emissions estimated for the project, but should not impact haul trip vehicle miles traveled and emissions since 40,000 trips were correctly input into the model.
5. All projects within the boundaries of Sacramento County are subject to Sac Metro Air District rules in effect at the time of construction. The attached Rules Statement provides a list of the most common rules that apply during construction. A complete list of rules is available at [www.airquality.org](http://www.airquality.org).

A-7

Please contact me at 916-874-4881 or [khuss@airquality.org](mailto:khuss@airquality.org) if you have any questions regarding these comments.

Sincerely,



Karen Huss  
Associate Air Quality Planner/Analyst

Attachment

Cc: Paul Philley, AICP, Sac Metro Air District  
Matt Jones, Yolo-Solano Air Quality Management District

**Sac Metro Air District Rules & Regulations Statement (revised 6/2018)**

*The following statement is recommended as standard condition of approval or construction document language for all development projects within the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District):*

All projects are subject to Sac Metro Air District rules in effect at the time of construction. A complete listing of current rules is available at [www.airquality.org](http://www.airquality.org) or by calling 916-874-4800. Specific rules that may relate to construction activities or building design may include, but are not limited to:

**Rule 201: General Permit Requirements.** Any project that includes the use of equipment capable of releasing emissions to the atmosphere may require permit(s) from Sac Metro Air District prior to equipment operation. The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact the Sac Metro Air District early to determine if a permit is required, and to begin the permit application process. Other general types of uses that require a permit include, but are not limited to, dry cleaners, gasoline stations, spray booths, and operations that generate airborne particulate emissions. Portable construction equipment (e.g. generators, compressors, pile drivers, lighting equipment, etc.) with an internal combustion engine over 50 horsepower is required to have a Sac Metro Air District permit or a California Air Resources Board portable equipment registration (PERP) (see Other Regulations below).

**Rule 402: Nuisance.** The developer or contractor is required to prevent dust or any emissions from onsite activities from causing injury, nuisance, or annoyance to the public.

**Rule 403: Fugitive Dust.** The developer or contractor is required to control dust emissions from earth moving activities, storage or any other construction activity to prevent airborne dust from leaving the project site.

**Rule 414: Water Heaters, Boilers and Process Heaters Rated Less Than 1,000,000 BTU PER Hour.** The developer or contractor is required to install water heaters (including residence water heaters), boilers or process heaters that comply with the emission limits specified in the rule.

**Rule 417: Wood Burning Appliances.** This rule prohibits the installation of any new, permanently installed, indoor or outdoor, uncontrolled fireplaces in new or existing developments.

**Rule 442: Architectural Coatings.** The developer or contractor is required to use coatings that comply with the volatile organic compound content limits specified in the rule.

**Rule 453: Cutback and Emulsified Asphalt Paving Materials.** This rule prohibits the use of certain types of cut back or emulsified asphalt for paving, road construction or road maintenance activities.



**Rule 460: Adhesives and Sealants.** The developer or contractor is required to use adhesives and sealants that comply with the volatile organic compound content limits specified in the rule.

**Rule 902: Asbestos.** The developer or contractor is required to notify the Sac Metro Air District of any regulated renovation or demolition activity. Rule 902 contains specific requirements for surveying, notification, removal, and disposal of asbestos containing material.

**Other Regulations (California Code of Regulations (CCR))**

**17 CCR, Division 3, Chapter 1, Subchapter 7.5, §93105 Naturally Occurring Asbestos:** The developer or contractor is required to notify the Sac Metro Air District of earth moving projects, greater than 1 acre in size in areas "Moderately Likely to Contain Asbestos" within eastern Sacramento County. The developer or contractor is required to comply with specific requirements for surveying, notification, and handling soil that contains naturally occurring asbestos.

**13 CCR, Division 3, Chapter 9, Article 5, Portable Equipment Registration Program:** The developer or contractor is required to comply with all registration and operational requirements of the portable equipment registration program such as recordkeeping and notification.

**13 CCR, Division 3, Chapter 9, Article 4.8, §2449(d)(2) and 13 CCR, Division 3, Chapter 10, Article 1, §2485 regarding Anti-Idling:** Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes. These apply to diesel powered off-road equipment and on-road vehicles, respectively.

### ***Response to Comment A-1***

Mitigation Measure AIR-MM-7 text from Section 3.3.5, “Air Quality,” of the Draft Supplemental EIR has been modified to show the mitigation fee amount. Revised text can be found in Chapter 4 of this Final Supplemental EIR.

### ***Response to Comment A-2***

Mitigation Measure AIR-MM-7 text from Section 3.3.5, “Air Quality,” of the Draft Supplemental EIR has been corrected to state NO<sub>x</sub> emissions rather than GHG emissions. Revised text can be found in Chapter 4 of this Final Supplemental EIR.

### ***Response to Comment A-3***

Modelling of air and GHG emissions was conducted in CalEEMod for project activities occurring Yolo County; however, modelling information was accidentally omitted from Appendix B of the Draft Supplemental EIR. Modelling was updated in this Final Supplemental EIR based on SMAQMD comments A-4 through A-6. Modelling results are provided in Appendix D of this Final Supplemental EIR, including emissions occurring from project activities in Yolo County.

### ***Response to Comment A-4***

CalEEMod input for mitigation in the SMAQMD from Appendix B of the Draft Supplemental EIR has been corrected to a 10% reduction from the off-road construction fleet. Revised CalEEMod files can be found in Appendix D of this Final Supplemental EIR and revised emissions of criteria air pollutant emissions in the SMAQMD can be found in Chapter 4 of this Final Supplemental EIR.

### ***Response to Comment A-5***

CalEEMod input for mitigation in the SMAQMD from Appendix B of the Draft Supplemental EIR has been corrected to calculate exhaust emissions mitigation using the off-road model. Revised CalEEMod files can be found in Appendix D and revised emissions of criteria air pollutant emissions in the SMAQMD can be found in Chapter 4 of this Final Supplemental EIR.

### ***Response to Comment A-6***

CalEEMod input from Appendix B of the Draft Supplemental EIR has been corrected to 600,000 CY of haul material. Revised CalEEMod files can be found in Appendix D and revised emissions of criteria air pollutant emissions in the SMAQMD can be found in Chapter 4 of this Final Supplemental EIR.

### ***Response to Comment A-7***

Construction activities associated with the proposed project will comply with all applicable provisions of the SMAQMD’s Rules Statement (included with the comment letter) and all other SMAQMD and YSAQMD guidance in effect at the time of construction. These rules and guidance measure are not included as mitigation because compliance with SMAQMD and YSAQMD guidance has been incorporated into the analysis of air quality impacts contained in Section 3.3.5, “Air Quality,” of the Draft Supplemental EIR.

### 3.3.2 Comment Letter B – Central Valley Regional Water Quality Control Board



RECEIVED

OCT 25 2019

COMMUNITY DEVELOPMENT  
DEPARTMENT



## Central Valley Regional Water Quality Control Board

23 October 2019

Letter B

Greg Fabun  
West Sacramento Area Flood Control Agency  
1110 West Capitol Avenue  
West Sacramento, CA 95691

**CERTIFIED MAIL**  
7019 0700 0002 0111 5787

#### COMMENTS TO REQUEST FOR REVIEW FOR THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT, SOUTHPORT SACRAMENTO RIVER EARLY IMPLEMENTATION PROJECT, SCH#2011082069, YOLO COUNTY

Pursuant to the State Clearinghouse's 23 September 2019 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Draft Supplemental Environmental Impact Report for the Southport Sacramento River Early Implementation Project*, located in Yolo County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

#### I. Regulatory Setting

##### Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office

KARL E. LONGLEY SCD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | [www.waterboards.ca.gov/centralvalley](http://www.waterboards.ca.gov/centralvalley)

B-1

B-2

of Administrative Law (OAL) and in some cases, the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues. For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:  
[http://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/](http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/)

#### **Antidegradation Considerations**

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Implementation Policy is available on page 74 at:  
[https://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/sacsjr\\_201805.pdf](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201805.pdf)

In part it states:

*Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.*

*This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.*

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

## **II. Permitting Requirements**

### **Construction Storm Water General Permit**

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). For more information on the Construction General Permit, visit the State Water Resources Control Board website at:

B-3

B-4

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml)

**Phase I and II Municipal Separate Storm Sewer System (MS4) Permits<sup>1</sup>**

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

B-5

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/storm\\_water/municipal\\_permits/](http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/)

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/phase\\_ii\\_municipal.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml)

**Industrial Storm Water General Permit**

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ. For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/storm\\_water/industrial\\_general\\_permits/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml)

B-6

**Clean Water Act Section 404 Permit**

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACE). If a Section 404 permit is required by the USACE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements. If you have any questions regarding the

B-7

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<sup>1</sup> Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACE at (916) 557-5250.

**Clean Water Act Section 401 Permit – Water Quality Certification**

If an USACE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications. For more information on the Water Quality Certification, visit the Central Valley Water Board website at:

[https://www.waterboards.ca.gov/centralvalley/water\\_issues/water\\_quality\\_certification/](https://www.waterboards.ca.gov/centralvalley/water_issues/water_quality_certification/)

B-8

**Waste Discharge Requirements – Discharges to Waters of the State**

If USACE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation. For more information on the Waste Discharges to Surface Water NPDES Program and WDR processes, visit the Central Valley Water Board website at: [https://www.waterboards.ca.gov/centralvalley/water\\_issues/waste\\_to\\_surface\\_water/](https://www.waterboards.ca.gov/centralvalley/water_issues/waste_to_surface_water/)

B-9

Projects involving excavation or fill activities impacting less than 0.2 acre or 400 linear feet of non-jurisdictional waters of the state and projects involving dredging activities impacting less than 50 cubic yards of non-jurisdictional waters of the state may be eligible for coverage under the State Water Resources Control Board Water Quality Order No. 2004-0004-DWQ (General Order 2004-0004). For more information on the General Order 2004-0004, visit the State Water Resources Control Board website at:

[https://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2004/wqo/wqo2004-0004.pdf](https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2004/wqo/wqo2004-0004.pdf)

B-10

**Dewatering Permit**

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Risk General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Risk Waiver) R5-2013-0145. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers

B-11

seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

For more information regarding the Low Risk General Order and the application process, visit the Central Valley Water Board website at:  
[http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2003/wqo/wqo2003-0003.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf)

For more information regarding the Low Risk Waiver and the application process, visit the Central Valley Water Board website at:  
[http://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/waivers/r5-2013-0145\\_res.pdf](http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2013-0145_res.pdf)

**Regulatory Compliance for Commercially Irrigated Agriculture**

If the property will be used for commercial irrigated agricultural, the discharger will be required to obtain regulatory coverage under the Irrigated Lands Regulatory Program.

There are two options to comply:

1. **Obtain Coverage Under a Coalition Group.** Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at:  
[https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/regulatory\\_information/for\\_growers/coalition\\_groups/](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/for_growers/coalition_groups/) or contact water board staff at (916) 464-4611 or via email at [IrrLands@waterboards.ca.gov](mailto:IrrLands@waterboards.ca.gov).
2. **Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100.** Dischargers not participating in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 11-100 acres are currently \$1,277 + \$8.53/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at [IrrLands@waterboards.ca.gov](mailto:IrrLands@waterboards.ca.gov).

B-12

B-13

**Limited Threat General NPDES Permit**

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Limited Threat Discharges to Surface Water* (Limited Threat General Order). A complete Notice of Intent must be submitted to the Central Valley Water Board to obtain coverage under the Limited Threat General Order. For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:

[https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/general\\_orders/r5-2016-0076-01.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076-01.pdf)

B-14

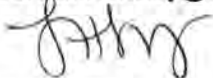
**NPDES Permit**

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit. For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at:

<https://www.waterboards.ca.gov/centralvalley/help/permit/>

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If you have questions regarding these comments, please contact me at (916) 464-4812 or [Jordan.Hensley@waterboards.ca.gov](mailto:Jordan.Hensley@waterboards.ca.gov).



Jordan Hensley  
Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research,  
Sacramento (via email)



### ***Response to Comments B-1 and B-2***

Comment summarizes the development and intent of the Central Valley Regional Water Quality Control Board's (CVRWQCB) Basin Plan but does not contain any project-specific information and does not require a response or revisions to the Draft Supplemental EIR.

### ***Response to Comment B-3***

Comment summarizes the State Water Resources Control Board (SWRCB) Antidegradation Policy but does not contain any project-specific information and does not require a response or revisions to the Draft Supplemental EIR.

### ***Response to Comment B-4***

As described in Section 2.5, "Regulatory Requirements, Permits, and Approvals," of the Draft Supplemental EIR, project activities would be conducted under the existing Stormwater Pollution Prevention Plan (SWPPP) for the Southport Sacramento River EIP borrow sites. In addition, WSAFCA would determine if the proposed project is covered by an existing Construction General Permit for the SRWTP or if a new permit is required. If a new permit is required, consistent with Environmental Commitment 2.4.14 "SWPPP" of the Draft Supplemental EIR, WSAFCA will obtain coverage for the project under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ.

### ***Response to Comment B-5***

The proposed project does not involve municipal storm sewer systems; therefore, neither a Phase I or II MS4 permit is required.

### ***Response to Comment B-6***

The proposed project does not involve storm water discharges associated with industrial sites; therefore, an Industrial Storm Water General Permit is not required.

### ***Response to Comment B-7***

As discussed in Section 3.3.8, "Vegetation and Wetlands," the SRWTP Borrow Site is an active soil stockpile for the ongoing EchoWater Project. No waters of the United States occur on or adjacent to the SRWTP Borrow Site. Therefore, no CWA Section 404 permits is needed for implementation of the project.

### ***Response to Comment B-8***

As discussed in Section 3.3.8, "Vegetation and Wetlands," the SRWTP Borrow Site is an active soil stockpile for the ongoing EchoWater Project. No waters of the State occur on or adjacent to the SRWTP Borrow Site. Therefore, no CWA Section 401 permit is needed for implementation of the project.

### ***Response to Comments B-9 and B-10***

As described in responses to Comments B-7 and B-8 above, the SRWTP Borrow Site is an active soil stockpile for the ongoing EchoWater Project. No waters of the United States or water of the State occur on or adjacent to the SRWTP Borrow Site. Therefore, the project will not require a Waste Discharge Requirement permit or coverage under SWRCB Water Quality Order No. 2004-0004-DWQ.

### ***Response to Comment B-11***

As described in Section 3.3.2, “Water Quality and Groundwater Resources,” of the Draft Supplemental EIR, groundwater was not encountered during excavation of the restoration sites during construction of the Southport Sacramento River EIP. Stockpiled soil at the SRWTP Borrow Site would be used and excavation would not encounter the water table. Therefore, coverage under the SWRCB’s Low Risk General Order or Low Risk Waiver is not required.

### ***Response to Comments B-12 and B-13***

There are no Commercially Irrigated Agricultural Lands at the SRWTP Borrow Site. Therefore, coverage under the Irrigated Lands Regulatory Program is not needed for project implementation.

### ***Response to Comment B-14***

The proposed project would not involve construction dewatering and discharge of groundwater to waters of the United States would not occur; therefore, the proposed project does not require coverage under a Low or Limited Threat General National Pollutant Discharge Elimination System (NPDES) permit.

### ***Response to Comment B-15***

As described in the 2014 EIR, because ground disturbance would be greater than 1 acre, WSAFCA obtained coverage under the United States Environmental Protection Agency’s (EPA’s) NPDES General Construction Activity Stormwater Permit. The CVRWQCB administers the NPDES stormwater permit program in Sacramento and Yolo counties. Obtaining coverage under the NPDES General Construction Activity Stormwater Permit requires the development of a SWPPP. Refer to “Response to Comment B-4” above for discussion of project activities conducted under SWPPPs.

### 3.3.3 Comment Letter C – California Department of Fish and Wildlife

**From:** Boyd, Ian@Wildlife <Ian.Boyd@Wildlife.ca.gov>

**Sent:** Wednesday, November 6, 2019 2:16 PM

**To:** Fabun, Greg <gregf@cityofwestsacramento.org>

**Cc:** Wildlife R2 CEQA <R2CEQA@wildlife.ca.gov>; state.clearinghouse@opr.ca.gov; Boertien, Andrea@Wildlife <Andrea.Boertien@wildlife.ca.gov>; Wood, Dylan@Wildlife <Dylan.A.Wood@wildlife.ca.gov>

**Subject:** CDFW Comments on Southport Sacramento River Early Implementation Project (SCH#2011082069); Supplemental EIR

Hello Mr. Fabun,

The California Department of Fish and Wildlife (CDFW) received the Supplemental Environmental Impact Report (SEIR) from the City of West Sacramento for the Southport Sacramento River Early Implementation Project (Project).

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish, wildlife, native plants, and their habitat. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may need to exercise its own regulatory authority under the Fish and Game Code.

**Project Description**

Construction of the Project was substantially completed in 2018 and included excavation of borrow material from sites identified in the 2014 EIR in the City of West Sacramento to supply fill materials. The West Sacramento Area Flood Control Agency (WSAFCA) has identified the need to import 600,000 cubic yards (CY) of material to restore approximately 89.1 acres of borrow sites excavated for the project to desired elevation and contours. WSAFCA has confirmed that stockpiled soil at the Sacramento Regional Wastewater Treatment Plant (SRWTP) is of suitable quality for the proposed project and the quantity of material needed for the proposed project (600,000 CY) is available. Use of the SRWTP Borrow Site (proposed project) was not specifically identified in the Project EIR and is the subject of this Supplemental EIR.

C-1

**CDFW Role**

The California Department of Fish and Wildlife (CDFW) is responding as a Trustee Agency for fish and wildlife resources, which 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. CDFW may potentially be a Responsible Agency under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) if it may need to make discretionary actions under the Fish and Game Code, such as the issuance of a Lake or Streambed Alteration Agreement (Fish & G. Code, § 1600 et seq.) and/or a California Endangered Species Act (CESA) Incidental Take Permit (Fish & G. Code, § 2080 et seq.).

C-2

The Project as it is described in the SEIR will take place in two different CDFW Regions, the Bay Delta Region (Region 3) and the North Central Region (Region 2). The Project site is located in Yolo County, CA and is within the legal delta boundary. CDFW’s Bay Delta Region reviews projects in Yolo County, CA that are within the legal delta boundary. However, the use of borrow material from the Sacramento County Wastewater Treatment Plant is an activity that is located in the North Central Region. For future changes or analyses on this Project, CDFW recommends sending the notice of completion to each Region in which the activity is occurring.

C-3

**Water Quality and Erosion Control**

CDFW recommends the City of West Sacramento adhere to standard best management practice (BMP) measures associated with Stormwater Pollution Prevention Plan (SWPPP) procedures administered through the Regional Water Quality Control Board. The use of silt fencing, straw wattles, reuse of topsoil to cover spoils, hydroseeding with a native seed mix, and application of soil binders are some BMP measures that could help prevent the mobilization and discharge of soils and sediments off the Project site after the work has been completed. CDFW also recommends that all BMP materials utilized within the site be free of non-native plant materials and be free of materials that can entangle wildlife, such as, plastic monofilament or cross joint netting. CDFW also recommends that any revegetation efforts associated with the Project, utilize locally sourced native plants.

C-4

C-5

### Lake and Streambed Alteration Agreement Program

Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials that could pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.

Upon receipt of a complete notification, CDFW will determine if the Project activities may substantially adversely affect existing fish and wildlife resources and whether a Lake and Streambed Alteration (LSA) Agreement is required. An LSA Agreement will include measures necessary to protect existing fish and wildlife resources. CDFW may suggest ways to modify the Project that would eliminate or reduce adverse impacts to fish and wildlife resources.

CDFW's issuance of an LSA Agreement is a "project" subject to CEQA (see Pub. Resources Code 21065). To facilitate issuance of an LSA Agreement, if one is necessary, the EIR should fully identify the potential impacts to the lake, stream, or riparian resources, and provide adequate avoidance, mitigation, and monitoring and reporting commitments. Early consultation with CDFW is recommended, since modification of the Project may be required to avoid or reduce impacts to fish and wildlife resources. To obtain an LSA notification package, please go to <https://www.wildlife.ca.gov/Conservation/LSA/Forms>.

### California Endangered Species Act

CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to the California Endangered Species Act (CESA). CDFW recommends that a CESA coverage be obtained if the Project has the potential to result in "take" (Fish & G. Code § 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") of state-listed CESA species, either through construction or over the life of the Project. CESA coverage is issued to conserve, protect, enhance, and restore state-listed CESA species and their habitats. CDFW encourages early consultation, as modification to the Project and avoidance, minimization, and mitigation measures may be necessary to obtain a CESA coverage or otherwise demonstrate compliance with CESA.

The regulatory setting under sections 3.3.8 Vegetation and Wetlands and 3.3.9 Wildlife includes a description of the South Sacramento Habitat Conservation Plan (SSHCP). At the time the SEIR was being written the SSHCP was not yet finalized. However, the SSHCP was fully permitted by wildlife agencies in August 2019 and has begun implementation. CDFW recommends that the regulatory setting sections for Vegetation and Wetlands and Wildlife also include a discussion on the Yolo Habitat Conservation Plan/Natural Community Conservation Plan that was fully implemented in January 2019. Both plans provide a method of obtaining CESA coverage or mitigating for impacts to covered special-status species if avoidance is not feasible.

CDFW appreciates the opportunity to provide comments on the SEIR and to assist in identifying and mitigating Project impacts on biological resources. If you have any questions pertaining to these comments, please contact me at (916) 358-1134 or [ian.boyd@wildlife.ca.gov](mailto:ian.boyd@wildlife.ca.gov).

C-6

C-7

C-8

Thank you,  
Ian Boyd  
Environmental Scientist  
Habitat Conservation Program  
North Central Region (Region 2)  
1701 Nimbus Rd., Suite A  
Rancho Cordova, CA 95670  
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### ***Response to Comment C-1***

Comment summarizes the proposed project description and does not require a response or revisions to the Draft Supplemental EIR.

### ***Response to Comment C-2***

Comment summarizes the regulatory role of the California Department of Fish and Wildlife (CDFW) but does not contain any project-specific information and does not require a response or revisions to the Draft Supplemental EIR.

### ***Response to Comment C-3***

WSAFCA appreciates CDFW's reminder that the restoration sites are within CDFW's Bay-Delta Region. As requested, for future changes or analyses on this project, WSAFCA will send the notice of completion to each CDFW Region in which the activity is occurring.

### ***Response to Comments C-4 and C-5***

As described in the 2014 EIR, because ground disturbance would be greater than 1 acre, WSAFCA obtained coverage under the EPA's NPDES General Construction Activity Stormwater Permit. The CVRWQCB administers the NPDES stormwater permit program in Sacramento and Yolo counties. Obtaining coverage under the NPDES General Construction Activity Stormwater Permit requires the development of a SWPPP. Refer to "Response to Comment B-4" above for discussion of project activities conducted under SWPPPs. In addition, as described in Section 3.8.2, "Environmental Consequences," of the 2014 EIR, all project effects were analyzed under the assumption and commitment that the restoration areas would be hydroseeded with native grassland species and would support upland habitat after construction.

### ***Response to Comments C-6***

As described in Section 3.3.8, “Vegetation and Wetlands,” and Section 3.3.9 “Wildlife” of the Draft Supplemental EIR, no sensitive habitats, including wetlands or riparian areas subject to CDFW jurisdiction occur on or adjacent to the SRWTP Borrow Site since it is an active soil stockpile for the ongoing EchoWater Project. Therefore, no further CDFW Section 1602 permits are needed for project implementation.

### ***Response to Comment C-7***

As described in Section 3.3.8, “Vegetation and Wetlands,” and Section 3.3.9 “Wildlife” of the Draft Supplemental EIR, no sensitive habitats, including wetlands, riparian areas, or oak woodland occur on or adjacent to the SRWTP Borrow Site since it is an active soil stockpile for the ongoing EchoWater Project. There is no potential for species listed under the California Endangered Species Act to occur at the SRWTP Borrow Site. Therefore, there is no potential for the project to result in “take” of species listed under the California Endangered Species Act.

### ***Response to Comment C-8***

Regulatory setting text from Section 3.3.8, “Vegetation and Wetlands,” of the Draft Supplemental EIR has been modified in response to this comment. Revised text can be found in Chapter 4 of this Final Supplemental Environmental Impact Report.





# Chapter 4. Revisions to the Draft Supplemental EIR

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This chapter presents text changes to the Draft Supplemental EIR in response to the public review and comment process. Changes made in response to comments are identified in Chapter 3 and shown in detail in Section 4.1 *Changes and Corrections to the Draft Supplemental EIR Initiated by Public Comments*. Draft Supplemental EIR changes are presented in the order they would appear in the Draft Supplemental EIR, and page numbers are provided to assist in identifying the location of the revisions. Additional changes to the Draft Supplemental EIR to correct other errors in the document are presented in Section 4.2 *Draft Supplemental EIR Changes Initiated by Lead Agency*.

This chapter provides excerpts of all text from the Draft Supplemental EIR that have changed as a result of the comment and responses identified in Chapter 3. Revisions to the Draft Supplemental EIR are shown with strikethrough text for deletions and underlined text for additions. Draft Supplemental EIR page numbers are also identified for ease of reference.

## 4.1 Changes and Corrections to the Draft Supplemental EIR Initiated by Public Comments

### 4.1.1 Revisions to Chapter 3, “Environmental Setting and Impact Analysis”

#### Section 3.3.5, “Air Quality”

Revisions to Page 3-10 and 3-11:

**Table 3-5. SMAQMD Criteria Air Pollutant Emissions from Use of the SRWTP Borrow Site**

| Category          | Unmitigated Emissions (lbs/day) |                  |                 |                  |                   | Mitigated Emissions (lbs/day) |       |     |                  |                   |
|-------------------|---------------------------------|------------------|-----------------|------------------|-------------------|-------------------------------|-------|-----|------------------|-------------------|
|                   | ROG                             | NOx              | CO              | PM <sub>10</sub> | PM <sub>2.5</sub> | ROG                           | NOx   | CO  | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Proposed Project  | <del>3.6</del>                  | <del>407.2</del> | <del>43.3</del> | <del>2.9</del>   | <del>4.5</del>    | n/a                           | 104.3 | n/a | n/a              | n/a               |
|                   | <u>4.8</u>                      | <u>106.6</u>     | <u>36.5</u>     | <u>3.5</u>       | <u>1.6</u>        |                               |       |     |                  |                   |
| SMAQMD threshold  | n/a                             | 85               | n/a             | 80               | 82                | n/a                           | 85    | n/a | 80               | 82                |
| Exceed threshold? | no                              | yes              | no              | no               | no                | no                            | Yes   | no  | no               | no                |

Notes: lbs=pounds; ROG=reactive organic gases; NOx=nitrous oxides; CO=carbon monoxide; PM<sub>10</sub>=particulate matter less than 10 microns in diameter; PM<sub>2.5</sub>= particulate matter less than 2.5 microns in diameter

**Table 3-6. YSAQMD Criteria Air Pollutant Emissions from Use of the SRWTP Borrow Site**

| Category          | Unmitigated Emissions |     |     |                  |                   |
|-------------------|-----------------------|-----|-----|------------------|-------------------|
|                   | tons/year             |     |     | lbs/day          |                   |
|                   | ROG                   | NOx | CO  | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Proposed Project  | 0.2                   | 5.4 | 2.3 | 2.6              | 4.4               |
|                   | 0.3                   | 5.4 | 1.6 | 3.9              | 1.8               |
| YSAQMD threshold  | 10                    | 10  | n/a | 80               | n/a               |
| Exceed threshold? | no                    | no  | no  | no               | no                |

Notes: lbs=pounds; ROG=reactive organic gases; NOx=nitrous oxides; CO=carbon monoxide; PM<sub>10</sub>=particulate matter less than 10 microns in diameter; PM<sub>2.5</sub>=particulate matter less than 2.5 microns in diameter.

**Mitigation Measure AIR-MM-7: Off-Site NOx Construction Mitigation Fees in SMAQMD**

WSAFCA will comply with the following measures to pay an off-site construction mitigation fee to reduce NOx emissions:

- WSAFCA shall pay a mitigation fee in the amount of \$30,000 per ton of NOx emissions and a 5% administrative fee in the amount of \$1,500 per ton of NOx emissions to SMAQMD to reduce the project impacts from construction NOx emissions to below an average of 85 pounds per day. Exceedance of the SMAQMD NOx significance threshold is estimated at 1.25 tons over the 5 month/130 working day construction period; resulting in mitigation fee of \$39,312.
- The project applicant, or its designee, shall pay the mitigation and administrative fees in full prior to commencement of proposed project construction activities generating NOx GHG emissions.
- An alternative payment plan may be negotiated by WSAFCA based on the timing of construction. Any alternative payment plan must be acceptable to SMAQMD and agreed upon in writing prior to commencement of proposed project construction activities generating GHG emissions.
- In coordination with SMAQMD, WSAFCA may reanalyze construction NOx emissions from the proposed project prior to commencing construction to update the required mitigation and administrative fees.

**Responsibility:** WSAFCA

**Timing:** Prior to Construction Activities

## Section 3.3.8, “Vegetation and Wetlands”

Revisions to Page 3-27:

### **Final South Sacramento Habitat Conservation Plan**

The *Final South Sacramento Habitat Conservation Plan* (SSHCP) (County of Sacramento et al. 2018) was released in 2018. The SSHCP was fully permitted by wildlife agencies in August 2019 and has begun implementation. The SSHCP is a regional effort that provides streamlined Federal and State permitting processes for development and infrastructure projects, while creating a preserve system to protect habitat, open space, and agricultural lands. The SRWTP Borrow Site is in Preserve Planning Unit (PPU) 4 of the SSHCP area. PPU 4 encompasses 5,253 acres; approximately 527 acres of this PPU would be preserved, with a focus on grassland and freshwater marsh. ~~The SSHCP has not yet been adopted by all partners, and not all regulatory agency permits have been issued. However, these final steps are anticipated to be completed in 2019.~~

### **Final Yolo Habitat Conservation Plan/Natural Community Conservation Plan**

The *Final Yolo Habitat Conservation Plan/Natural Community Conservation Plan* (HCP/NCCP) (Yolo Habitat Conservancy 2018) was released in April 2018. The restoration sites are within the planning area for the Yolo HCP/NCCP, which provides a framework to improve conservation of natural resources, including endangered species habitat, while streamlining the permitting process for planned development, infrastructure, and maintenance activities, and was fully permitted as of January 2019. The restoration sites are in Planning Unit 21 of the HCP/NCCP plan area. Planning Unit 21 (which includes the City of West Sacramento), is slated for approximately 3,559 acres of urban projects and activities.

## Section 3.3.9, “Wildlife”

Revisions to Page 3-28:

### **Final Yolo Habitat Conservation Plan/Natural Community Conservation Plan**

Refer to description in Section 3.3.8 “Vegetation and Wetlands” above.

## 4.1.2 Revisions to Chapter 7, “References Cited”

### **3.3.8. Vegetation and Wetlands**

County of Sacramento. 2017. *General Plan Conservation Element. Amended September 26, 2017.* Office of Planning and Environmental Review, Sacramento, CA.

County of Sacramento, City of Rancho Cordova, City of Galt, Sacramento County Water Agency, Sacramento Regional County Sanitation District, and the Southeast Connector Joint Powers Authority. 2018 (January). *Final South Sacramento Habitat Conservation Plan.* Sacramento, CA.

Yolo Habitat Conservancy. 2018 (April). *Final Yolo Habitat Conservation Plan/Natural Community Conservation Plan.* Woodland, CA. Available at: <https://www.yolohabitatconservancy.org/documents>. Accessed: November 11, 2019.

### 3.3.9. Wildlife

California Department of Fish and Wildlife. 2019. *Results of electronic database search for sensitive species occurrences*. Version 5. Biogeographic Data Branch. Available at <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. Accessed August 7, 2019.

Yolo Habitat Conservancy. 2018 (April). *Final Yolo Habitat Conservation Plan/Natural Community Conservation Plan*. Woodland, CA. Available at: <https://www.yolohabitatconservancy.org/documents>. Accessed: November 11, 2019.

## 4.2 Draft Supplemental EIR Changes Initiated by the Lead Agency

This chapter presents text changes to the Draft Supplemental EIR initiated by the lead agency.

### **Section ES.2, “Alternatives”**

Revisions to Page ES-8 were made to make the Executive Summary consistent with Section 5.5, “Environmentally Superior Alternative” of the Draft Supplemental EIR, as follows:

#### **Environmentally Superior Alternative**

CEQA requires identification of the environmentally superior alternative; that is, the alternative that has the least significant impacts on the environment. As presented in Chapter 2, implementation of the proposed project would result in less than significant environmental impacts with mitigation incorporated. As discussed in Section 5.23, the No Project Alternative would have the least significant impacts on the environment because no material would be borrowed or hauled; however, this alternative does not meet the project objectives. ~~Therefore, because the proposed project would result in fewer environmental impacts than the other infeasible alternatives, and meets all project objectives, it would be the environmentally superior alternative. When the No Project alternative is the environmentally superior alternative, CEQA requires that an environmentally superior alternative be selected from among the other alternatives to the Proposed Project (CEQA Guidelines Section 15126.6(e)(2)). Therefore, the Daytime Only Construction alternative, the only other feasible alternative, is the environmentally superior alternative. This alternative would be environmentally superior to the proposed project because it would not require use of high-powered lighting near sensitive receptors at the restoration sites.~~

### **Section 3.3.4, “Transportation and Navigation”**

Revisions to Page 3-7:

While the 2014 EIR did not use the VMT approach, the traffic analysis in the 2014 EIR estimates ADT for hauling on different roadway segments and evaluates up to a 7-mile round-trip for each offsite hauling trip. Use of the ~~SRTWP~~ SRWTP Borrow Site requires traveling at approximately 32.3 miles more per hauling round-trip, resulting in greater VMT for trips required to haul up to 600,000 CY of material considered in the 2014 EIR. Since haul routes in the 2014 EIR are in the City of West Sacramento, the additional mileage per trip is primarily in Sacramento County and the City of Elk Grove.

# Chapter 5. Report Preparation

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## West Sacramento Area Flood Control Agency

Greg Fabun.....Flood Protection Manager, Document Review  
Toby Wong .....Project Manager, Document Review

## GEI Consultants, Inc.

Ryan Jolley.....Project Director/Manager (CEQA Compliance), Introduction, Project Description, Air Quality, Climate Change, Transportation and Navigation, Alternatives Analysis, Document Review and Quality Assurance/Quality Control  
Erica Bishop.....Water Quality and Groundwater Resources; Geology, Seismicity, Soils, and Mineral Resources; Visual Resources; Land Use and Agriculture; Utilities and Service Systems; Public Health and Environmental Hazards; Energy; Wildlife; Other Statutory Considerations; Alternatives Analysis  
Anne King.....Vegetation and Wetlands, Wildlife  
Madeline Bowen.....Cultural Resources and Tribal Cultural Resources  
Ryan Snyder.....Geographic Information Systems  
Charisse Case.....Document Specialist

## KD Anderson & Associates, Inc.

Wayne Shijo.....Criteria Air Pollutant and Greenhouse Gas Emissions

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**Appendix A. Draft Supplemental EIR  
Notice of Availability and Distribution List**

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**Notice of Availability of a  
Draft Supplemental Environmental Impact Report**

# **Southport Sacramento River Early Implementation Project**

**To:** State Clearinghouse, Responsible Agencies, Trustee Agencies, Interested Parties  
(see attached distribution list)

**From:** West Sacramento Area Flood Control Agency  
110 West Capitol Avenue, West Sacramento, CA 95691

**PURPOSE:** In accordance with the California Environmental Quality Act (CEQA), the West Sacramento Area Flood Control Agency (WSFACA) has completed a Draft Supplemental Environmental Impact Report (EIR) addressing use of the Sacramento Regional Wastewater Treatment Plant (SRWTP) Borrow Site (proposed project) as a source of fill material for restoration of borrow sites used for construction of the Southport Sacramento River Early Implementation Project (EIP). The Supplemental EIR is a continuation of the Final EIR prepared for the Southport Sacramento River EIP in 2014 (2014 EIR) (State Clearinghouse No. 2011082069) and associated Subsequent EIR for the Borrow One Site prepared in 2016. This notice is to inform the public and interested agencies of the availability of the Draft Supplemental EIR, indicating where and how copies of the Draft Supplemental EIR can be obtained or are otherwise available for public review.

**PROJECT LOCATION AND DESCRIPTION:** The SRWTP Borrow Site is located 1.5 miles east of Interstate 5 at the intersections of Dwight Road and Simms Road in unincorporated Sacramento County, California. The borrow site consists of surplus soil stockpiles at the southeast end of the SRWTP property. Soil from the SRWTP Borrow Site would be transported to borrow sites used for construction of the Southport Sacramento River EIP, located along the Sacramento River South Levee and east of Jefferson Boulevard in the City of West Sacramento. Since the 2014 EIR covered restoration of borrow sites, the proposed project is limited to hauling of fill material from the SRWTP Borrow Site. The 2014 EIR covered importing up to 2,400,000 CY of fill material from up to 20 miles away; however, without known quantities or location, the 2014 EIR did not analyze all of the impacts. The 2014 EIR covered hauling to an extent from potential borrow sites within the City of West Sacramento. Use of the SRWTP Borrow Site requires additional hauling on roadways in the City of West Sacramento, Sacramento County, and the City of Elk Grove. Use of the SRWTP Borrow Site and additional hauling activities is the focus of the Draft Supplemental EIR. Surplus soil stockpiles proposed for use were generated from soil excavated during construction of the EchoWater Project at the SRWTP. Therefore, use of these stockpiles would not result in new ground disturbance. WSAFCA has confirmed soil is of suitable quality for the proposed project and the quantity of material needed for the proposed project—up to 600,000 CY—is available.

**ENVIRONMENTAL IMPACTS OF THE PROJECT:** The preliminary conclusions of the Draft Supplemental EIR indicate that all environmental impacts associated with the proposed project are less than significant or can be mitigated to a less than significant level. Table 1 provides a summary of known project impacts and mitigation measures. The project site is not known to contain any significant hazardous waste contamination as characterized by Section 65962.5 of the Government Code.



**AVAILABILITY:** The Draft Supplemental EIR is available on WSAFCA's webpage at <https://www.cityofwestsacramento.org/government/departments/community-development/flood-protection/what-s-new>.

The 2014 EIR for the Southport Sacramento River EIP is available on WSAFCA's webpage at <https://www.cityofwestsacramento.org/government/departments/community-development/flood-protection/southport-eip/environmental-studies>

Hard copies of these documents are also available for review during normal business hours at 1110 West Capitol Avenue, West Sacramento, California. The Draft Supplemental EIR incorporates by reference information from the Sacramento Regional County Sanitation District's (SRCSD's) EchoWater Project EIR which is available on SRCSD's webpage at <https://www.regionalsan.com/reports>

**PUBLIC REVIEW AND COMMENT:** The 45-day public review period for the Draft Supplemental EIR starts September 23, 2019 and ends November 6, 2019. Comments on the Draft Supplemental EIR must be submitted in writing and received by WSAFCA prior to the close of the public review period. Written comments can be submitted by regular mail, fax, or e-mail to:

Greg Fabun  
West Sacramento Area Flood Control Agency  
1110 West Capitol Avenue  
West Sacramento, CA 95691  
[gregf@cityofwestsacramento.org](mailto:gregf@cityofwestsacramento.org)

**PUBLIC MEETING:** A public meeting to present information about the project and receive oral or written comments on the Draft Supplemental EIR will be held on Tuesday October 8, 2019 from 4:30 p.m. to 6:30 p.m. at West Sacramento City Hall, 1110 West Capitol Avenue, West Sacramento, California 95691

**Table 1. Summary of Project Impacts and Mitigation Measures**

| Effect   | 2014 EIR                    |                       |                             |   | Draft Supplemental EIR          |                         |                       |   |
|--|-----------------------------|-----------------------|-----------------------------|---|---------------------------------|-------------------------|-----------------------|---|
|  | Impact Findings             |                       | With Mitigation             | Mitigation measure  | Proposed Project Impact Finding |                         | With Mitigation       | Mitigation Measure  |
|  | Direct                      | Indirect              |                             |   | Direct                          | Indirect                |                       |   |
| TRA-1: Temporary Increase in Traffic Volumes from Construction-Generated Traffic   | Significant and unavoidable | No effect             | Not applicable              | None  | Less Than Significant           | No effect               | Not applicable        | None proposed.  |
| AIR-2: Violate Any Air Quality Standard or Substantial Contribution to Existing or Projected Air Quality Violation—CEQA  | Significant                 | No effect             | Significant and unavoidable | AIR-MM-1: Implement Measures to Reduce Exhaust Emissions of NOX and PM10<br>AIR-MM-2: Implement Fugitive Dust Control Plan<br>AIR-MM-3: Provide Advance Notification of Construction Schedule and 24-Hour Hotline to Residents<br>AIR-MM-4: Mitigate and Offset Construction-Generated NOX Emissions to Net Zero (0) for Emissions in Excess of General Conformity de Minimis Threshold (Where Applicable) and to Quantities below Applicable YSAQMD and SMAQMD CEQA Thresholds<br>AIR-MM-5: Mitigate and Offset Construction-Generated NOX Emissions to Quantities below Applicable BAAQMD CEQA Thresholds | Potentially Significant         | No effect               | Less than Significant | AIR-MM-6: Reduce Construction Related Exhaust Emissions in SMAQMD<br>AIR-MM-7: Off-Site NOx Construction Mitigation Fees in SMAQMD                |
| AIR-4: Result in a Cumulatively Considerable Net Increase of Any Criteria Pollutant for Which the Project Region is a Non- Attainment Area under NAAQS and CAAQS | Significant                 | No effect             | Significant and unavoidable | AIR-MM-1: Implement Measures to Reduce Exhaust Emissions of NOX and PM10<br>AIR-MM-2: Implement Fugitive Dust Control Plan<br>AIR-MM-3: Provide Advance Notification of Construction Schedule and 24-Hour Hotline to Residents<br>AIR-MM-4: Mitigate and Offset Construction-Generated NOX Emissions to Net Zero (0) for Emissions in Excess of General Conformity de Minimis Threshold (Where Applicable) and to Quantities below Applicable YSAQMD and SMAQMD CEQA Thresholds<br>AIR-MM-5: Mitigate and Offset Construction-Generated NOX Emissions to Quantities below Applicable BAAQMD CEQA Thresholds | Potentially Significant         | No effect               | Less than Significant | AIR-MM-6: Reduce Construction Related Exhaust Emissions in SMAQMD<br>AIR-MM-7: Off-Site NOx Construction Mitigation Fees in SMAQMD                |
| AIR-5: Expose Sensitive Receptors to Substantial Fugitive Dust Concentrations  | No effect                   | Significant           | Less than significant       | AIR-MM-2: Implement Fugitive Dust Control Plan  | Less Than Significant           | No effect               | Not applicable        | None proposed.  |
| AIR-6: Expose Sensitive Receptors to Substantial Diesel Particulate Matter Concentrations  | No effect                   | Less than significant | Less than significant       | AIR-MM-1: Implement Measures to Reduce Exhaust Emissions of NOX and PM10  | Less Than Significant           | No effect               | Not applicable        | None proposed.  |
| CC-1: Generate GHG Emissions That May Have a Significant Effect on the Environment   | No effect                   | Less than significant | Less than significant       | CC-MM-1: Implement Measures to Minimize GHG Emissions during Construction   | Potentially Significant         | No effect               | Less than Significant | CC-MM-2: Implement SMAQMD Construction GHG Emissions Reduction Best Management Practices<br>CC-MM-3: Off-Site GHG Construction Mitigation Credits |
| CC-2: Conflict with an Applicable Plan, Adopted for the Purpose of Reducing GHG Emissions  | No effect                   | Less than significant | Not applicable              | None proposed.  | Potentially Significant         | Potentially Significant | Less than significant | CC-MM-2: Implement SMAQMD Construction GHG Emissions Reduction Best Management Practices<br>CC-MM-3: Off-Site GHG Construction Mitigation Credits |
| NOI-1: Exposure of Sensitive Receptors to Temporary Construction-Related Noise   | Significant                 | No effect             | Significant and Unavoidable | NOI-MM-1: Employ Noise-Reducing Construction Practices  | Less Than Significant           | No effect               | Less Than Significant | None proposed   |

**Table 1. Summary of Project Impacts and Mitigation Measures**

| Effect  | 2014 EIR                    |                       |                             |   | Draft Supplemental EIR          |           |                       |   |
|---|-----------------------------|-----------------------|-----------------------------|---|---------------------------------|-----------|-----------------------|---|
|   | Impact Findings             |                       | With Mitigation             | Mitigation measure  | Proposed Project Impact Finding |           | With Mitigation       | Mitigation Measure  |
|   | Direct                      | Indirect              |                             |   | Direct                          | Indirect  |                       |   |
| NOI-2: Exposure of Sensitive Receptors to Temporary Construction-Related Vibration  | Significant                 | No effect             | Significant and Unavoidable | NOI-MM-2: Employ Vibration-Reducing Construction Practices  | Less Than Significant           | No effect | Less Than Significant | None proposed   |
| NOI-3: Exposure of Sensitive Receptors to Traffic Noise from the Extension of Village Parkway                                       | Significant                 | No effect             | Not applicable              | M.M. 4-8-1 from the Southport Framework Plan draft EIR.   | No Impact                       | No effect | Not applicable        | None proposed   |
| WILD-5: Disturbance or Loss of Western Burrowing Owl and Their Habitat  | Significant                 | No effect             | Less than significant       | VEG-MM-3: Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel<br>WILD-MM-10: Conduct Preconstruction Surveys for Active Burrowing Owl Burrows and Implement the 2012 California Department of Fish and Game Guidelines for Burrowing Owl Mitigation, If Necessary<br>WILD-MM-11: Coordinate with Resource Agencies and Develop an Appropriate Compensation Plan for Burrowing Owl | Potentially Significant         | No effect | Less than significant | VEG-MM-3: Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel<br>WILD-MM-10: Conduct Preconstruction Surveys for Active Burrowing Owl Burrows and Implement the 2012 California Department of Fish and Game Guidelines for Burrowing Owl Mitigation, If Necessary<br>WILD-MM-11: Coordinate with Resource Agencies and Develop an Appropriate Compensation Plan for Burrowing Owl |
| WILD-6: Loss or Disturbance of Tree-, Shrub-, and Ground- Nesting Special-Status and Non-Special-Status Migratory Birds and Raptors | Significant                 | Significant           | Less than significant       | VEG-MM-1: Compensate for the Loss of Woody Riparian Habitat<br>VEG-MM-3: Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel<br>WILD-MM-8: Avoid Disturbance of Tree-, Shrub-, and Ground-Nesting Special-Status and Non-Special-Status Migratory Birds and Raptors and Conduct Preconstruction Nesting Bird Surveys  | Potentially Significant         | No effect | Less than significant | VEG-MM-3: Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel<br>WILD-MM-8: Avoid Disturbance of Tree-, Shrub-, and Ground-Nesting Special-Status and Non-Special-Status Migratory Birds and Raptors and Conduct Preconstruction Nesting Bird Surveys   |
| VIS-1: Result in Temporary Visual Effects from Construction   | Significant                 | No effect             | Significant and Unavoidable | VIS-MM-1: Use Native Wildflower Species in Erosion Control Grassland Seed Mix<br>VIS-MM-2: Develop a Soil Borrow Strategy and Site Reclamation Plan<br>VIS-MM-3: Limit Construction near Residences to Daylight Hours   | Potentially Significant         | No effect | Less than significant | VIS-MM-4: Limit Use of Lighting Nearby Sensitive Receptors During Construction Activities at Night  |
| VIS-3: Substantially Degrade the Existing Visual Character or Quality of the Site and Its Surroundings                              | Significant and Unavoidable | No effect             | Not applicable              | None proposed   | Less than significant           | No effect | Not applicable        | None proposed   |
| UTL-5: Increase in Emergency Response Times during Project Construction   | Less than Significant       | No effect             | Not applicable              | None proposed   | Less than Significant           | No effect | Not applicable        | None proposed   |
| HAZ-1: Incidental Release of Hazardous Materials during Construction  | Less than Significant       | Less than Significant | Not applicable              | None proposed   | Less than Significant           | No effect | Not applicable        | None proposed   |
| CUL-1: Potential Damage to or Destruction of Previously Undiscovered Tribal Cultural Resources*                                     | Not applicable              | Not applicable        | Not applicable              | Not applicable  | Potentially Significant         | No effect | Less than significant | CUL-MM-1: Implement Avoidance, Minimization, and Preservation Measures Should Tribal Cultural Resources Be Discovered During Construction   |

Note: \*Analysis of Tribal Cultural Resources was not required under CEQA when the 2014 EIR was prepared. Thus, there are no impacts or mitigation measures listed for this resource in the 2014 EIR.

# Notice of Availability of a Draft Supplemental Environmental Impact Report Distribution List

City of Elk Grove  
Planning Director  
8401 Laguna Palms Way  
Elk Grove, CA 95758

California Department of Transportation,  
Office of Environmental Management  
Kendall Schinke  
703 B Street  
Marysville, CA 95901

City of Sacramento  
Planning Director  
915 I Street, New City Hall, 3rd Floor  
Sacramento, CA 95814

Office of Historic Preservation  
Julianne Polanco  
1725 23rd Street, Suite 100  
Sacramento, CA 95816

Sacramento Air Quality Management District  
Karen Huss  
777 12th Street, Suite 300  
Sacramento, CA 95814

Sacramento County Planning and Community  
Development Agency  
Director  
827 7th Street, Room 230  
Sacramento, CA 95814

Sacramento Regional Wastewater Treatment  
Plant  
Dan Wilson  
8521 Laguna Station Road  
Elk Grove, CA 95758

Sacramento Transportation Authority  
801 12th Street, 5th Floor  
Sacramento, California 95814

California State Clearinghouse,  
1400 10th Street, Rm 121  
Sacramento, CA 95814

U.S. Army Corps of Engineers  
Attn: Planning Division (CESPK-PD-R)  
1325 J Street  
Sacramento, CA 95814

California Department of Water Resources  
Division of Flood Management  
Morgan O'Brien, Attn: Flood Risk Reduction  
Projects, Section B  
3464 El Camino Avenue, Suite 200  
Sacramento, CA 95821

Yolo County Planning Department  
Planning Director  
292 West Beamer Street  
Woodland, CA 95695

Yolo County Transit Authority  
350 Industrial Way  
Woodland, CA 95776

Yolo-Sutter AQMD  
Matthew Jones  
1947 Galileo Court, Suite 103  
Davis, CA 95618

Yolo County Clerk  
Attn: Public Notices  
625 Court Street, Room B01  
Woodland, CA 95695

Sacramento County Clerk-Recorder  
600 8<sup>th</sup> Street  
Sacramento, CA 95814

**Appendix B. Public Meeting Presentation and Sign-In  
Sheets**

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# West Sacramento Area Flood Control Agency

## Southport Sacramento River Early Implementation Project

Draft

### Supplemental Environmental Impact Report

Public Comment Meeting  
October 8, 2019



# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Project Background

- Southport Sacramento River Early Implementation Project (EIP)
  - Implements flood risk-reduction measures along the Sacramento River South Levee in the City of West Sacramento, Yolo County, California.
  - Study area encompasses the area of levee risk-reduction measure construction along the river corridor, roadway construction and/or relocation, and potential soil borrow sites.
  - Brings the levee up to standard with Federal and State flood protection criteria, as well as providing opportunities for ecosystem restoration and public recreation.

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Project Background

- Southport Sacramento River EIP Environmental Impact Report (EIR)
  - Project EIR certified in August 2014.
  - Subsequent EIR prepared for use of the Borrow One Site, to provide an additional location for sourcing borrow material during project construction, certified in April 2016.



# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Project Background

- Southport Sacramento River EIP Project Status
  - Construction substantially completed in 2018.
  - Need to import up to 600,000 cubic yards (CY) of material to restore borrow sites excavated for the project to desired elevations and contours.
  - Potential borrow sites identified in the EIR were either used for project construction or are not currently available for sourcing fill material.
  - Fill material for restoration of the project borrow sites is proposed to be sourced from surplus soil stockpiles at the Sacramento Regional Wastewater Treatment Plan (SRWTP).
  - Use of the SRWTP Borrow Site was not identified in the Southport Sacramento River EIP EIR or Subsequent EIR.

# Southport Sacramento River EIP Borrow Site



# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Proposed Project Objectives

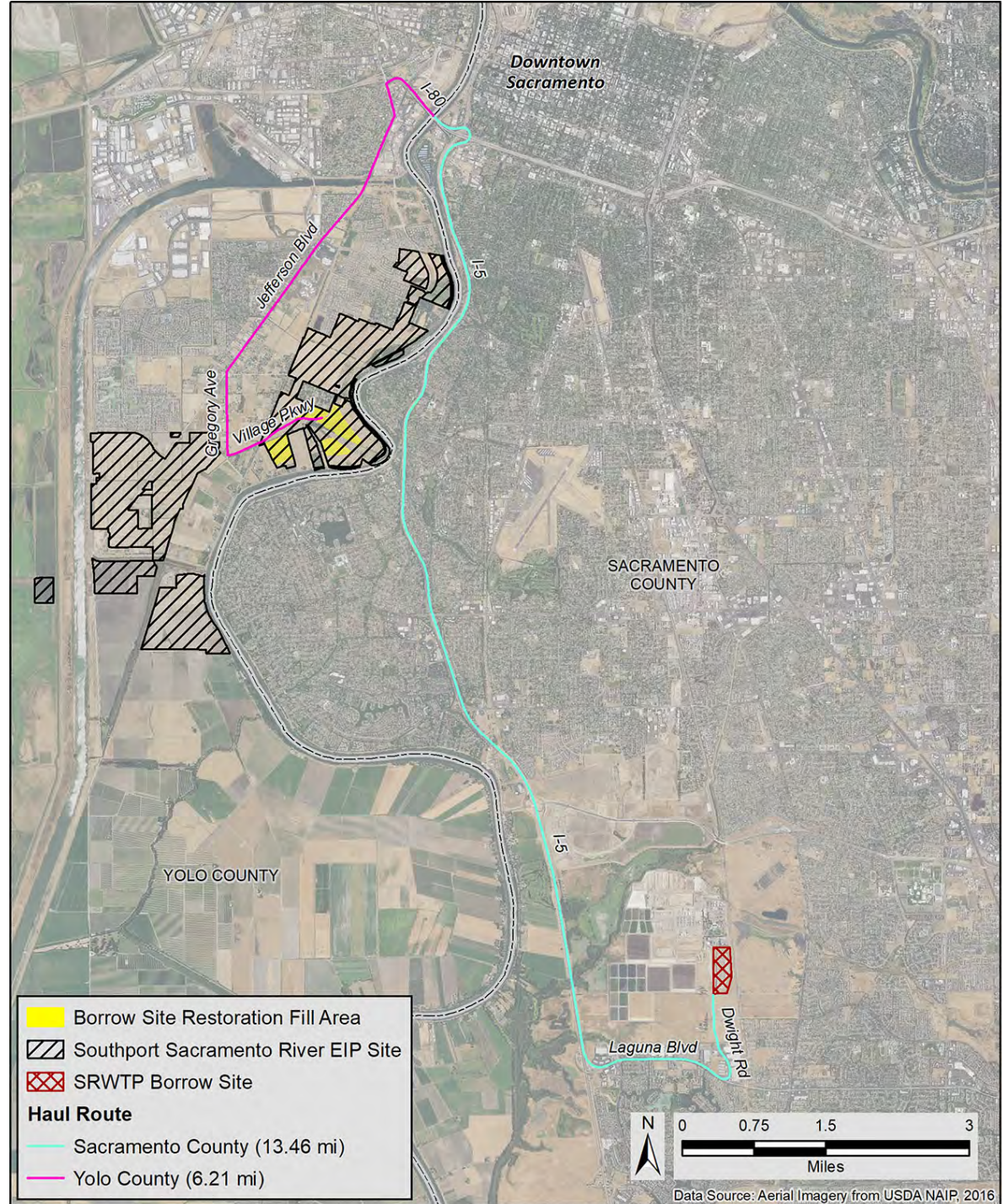
- Restore the Southport Sacramento River EIP borrow sites to land elevations and contours desired by the landowners.
- Restore the Southport Sacramento River EIP borrow sites as soon as possible to fulfill previously executed landowner agreements.
- Source borrow material of suitable quality, condition, and quantity to restore the Southport Sacramento River EIP borrow sites.
- Avoid or minimize to the extent possible additional land disturbances and restoration requirements for sourcing of new borrow material.

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Proposed Project in the Supplemental EIR

- The proposed project is limited to use of fill material from the SRWTP Borrow Site for restoration of borrow sites for the Southport Sacramento River EIP.
  - The EIR covered hauling to an extent from potential borrow sites within the City of West Sacramento.
  - Use of the SRWTP Borrow Site requires additional hauling on roadways in the City of West Sacramento, Sacramento County, and the City of Elk Grove.
- Use of the SRWTP Borrow Site would not result in new ground disturbance.
- WSAFCA has confirmed soil is of suitable quality for the proposed project and the quantity of material needed for the proposed project—up to 600,000 CY—is available.

# Project Site and Location



# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Supplemental EIR

- The Supplemental EIR contains only the information necessary to make the previous EIR adequate for use of the SRWTP Borrow Site.
- Other than the new borrow site location, the borrow activity and restoration activities were covered in the 2014 EIR.
- Incorporates by reference information from the Sacramento Regional County Sanitation District's (Regional San) EchoWater Project EIR.
- All potentially significant impacts from the proposed project would be mitigated to a less-than-significant level by implementation of mitigation measures.

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Summary of Proposed Project Impacts by Resource Compared to the 2014 EIR

| Resources   | Impact Findings Compared to 2014 EIR |             |                |  |                                    |
|---|--------------------------------------|-------------|----------------|--|------------------------------------|
|   | No Impact                            | Same Impact | Changed Impact | Substantially More Severe Significant Impact | New Potentially Significant Impact |
| Flood Risk Management and Geomorphic Conditions             | X                                    |             |                |  |                                    |
| Water Quality and Groundwater Resources                     |                                      | X           |                |  |                                    |
| Geology, Soils, Seismicity, and Mineral Resources           |                                      | X           |                |  |                                    |
| Transportation, and Navigation                              |                                      |             | X              |  |                                    |
| Air Quality   |                                      |             |                | X  |                                    |
| Climate Change  |                                      |             |                |  | X                                  |
| Noise   |                                      |             | X              |  |                                    |
| Vegetation and Wetlands                                     |                                      | X           |                |  |                                    |
| Fish and Aquatic Resources                                  | X                                    |             |                |  |                                    |
| Wildlife  |                                      |             | X              |  |                                    |
| Land Use and Agriculture                                    |                                      | X           |                |  |                                    |
| Environmental Justice, Socioeconomic, and Community Effects | X                                    |             |                |  |                                    |
| Visual Resources  |                                      |             | X              |  |                                    |
| Recreation  | X                                    |             |                |  |                                    |
| Utilities and Public Services                               |                                      |             | X              |  |                                    |
| Public Health and Environmental Hazards                     |                                      |             | X              |  |                                    |
| Cultural Resources  |                                      | X           |                |  |                                    |
| Energy  | X                                    |             |                |  |                                    |
| Wildfire  | X                                    |             |                |  |                                    |
| Tribal Cultural Resources                                   |                                      |             |                |  | X                                  |

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Supplemental EIR

- Changed Potentially Significant Impacts
  - Effect WILD-5: Disturbance or Loss of Western Burrow Owl and Their Habitat
  - Effect WILD-6: Loss or Disturbance of Tree-, Shrub-, and Ground-Nesting Special-Status and Non-Special-Status Migratory Birds and Raptors
  - Effect VIS-1: Result in Temporary Visual Effects from Construction
- Substantially More Severe Potentially Significant Impacts
  - Effect AIR-2: Violate Any Air Quality Standard or Substantial Contribution to Existing or Projected Air Quality Violation—*only Nitrous Oxide (NOx) emissions are potentially significant*
  - Effect AIR-4: Result in a Cumulatively Considerable Net Increase of Any Criteria Pollutant for Which the Project Region is a Non-Attainment Area under NAAQS and CAAQS—*only NOx emissions are potentially significant*



# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Supplemental EIR

- New Potentially Significant Impacts
  - Effect CC-1: Generate GHG Emissions That May Have a Significant Effect on the Environment
  - Effect CC-2: Conflict with an Applicable Plan, Adopted for the Purpose of Reducing GHG Emissions
  - Effect TCR-1: Potential Damage to or Destruction of Previously Undiscovered Tribal Cultural Resources

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Supplemental EIR

- Alternatives Considered
  - No Project Alternative, including Yarbrough Property
  - Daytime Only Construction (*Environmentally Superior Alternative*)
  
- Alternatives Considered but Dismissed
  - SRWTP Borrow Site Two Daily Hauling Shifts
  - SRWTP Borrow Site Shorter Hauling Route
  - Nearby Terrestrial Borrow Sites Not Identified in the 2014 EIR
  - Use of Dredged Material

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Availability

- The Draft Supplemental EIR is available on WSAFCA's webpage at <https://www.cityofwestsacramento.org/government/departments/community-development/flood-protection/what-s-new>.
- The 2014 EIR for the Southport Sacramento River EIP is available on WSAFCA's webpage at <https://www.cityofwestsacramento.org/government/departments/community-development/flood-protection/southport-eip/environmental-studies>
- The EchoWater Project EIR which is available on Regional San's webpage at <https://www.regionalsan.com/reports>

# Draft Supplemental Environmental Impact Report Southport Sacramento River Early Implementation Project

## Draft Comment Period

- All comments must be received by November 6, 2019.

Greg Fabun

West Sacramento Area Flood Control Agency

1110 West Capitol Avenue

West Sacramento, CA 95691

[gregf@cityofwestsacramento.org](mailto:gregf@cityofwestsacramento.org)

10/08/19 4:30 to 6:30 pm

SSREIP Draft Supplemental EIR

| <u>Name</u>    | <u>Organization</u> |
|----------------|---------------------|
| Ryan Jolley    | GEI Consultants     |
| Toby Wong      | WSAFCA              |
| Greg Fabun     | WSAFCA              |
| Brian Brown    | WSAFCA              |
| RANDY GONZALES | COVUS               |
| Mark Jolley    | WSAFCA              |

## **Appendix C. Mitigation Monitoring and Reporting Program**

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**Final  
Mitigation Monitoring and Reporting Program  
Supplemental Environmental Impact Report  
Southport Sacramento River  
Early Implementation Project**

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Prepared for:  
West Sacramento Area Flood  
Control Agency



January 2020

Prepared by:



Consulting  
Engineers and  
Scientists

**Final  
Mitigation Monitoring and Reporting Program  
Supplemental Environmental Impact Report  
Southport Sacramento River  
Early Implementation Project**

Prepared for:

West Sacramento Area Flood Control Agency  
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Project No. 1605750

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# Mitigation Monitoring and Reporting Program

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In accordance with the California Environmental Quality Act (CEQA), the West Sacramento Area Flood Control Agency (WSAFCA) prepared a Draft Supplemental Environmental Impact Report (EIR) in September 2019 to provide the public and responsible and trustee agencies with information about the potential environmental impacts associated with implementation of the revised Southport Sacramento River Early Implementation Project (EIP) along the Sacramento River South Levee in the City of West Sacramento, Yolo County, California (hereafter referred to as the “project” or “proposed project”). WSAFCA subsequently prepared a Final Supplemental EIR in November 2019, incorporating responses to comments received on the Draft Supplemental EIR.

The Final EIR concludes that implementation of the proposed project would generate significant and potentially significant adverse effects on the environment. The Final EIR identifies feasible mitigation measures that avoid, mitigate, or reduce these impacts.

Section 21081.6(a)(1) of the California Public Resources Code (PRC) and Section 15097 of the State CEQA Guidelines require a public agency to adopt a reporting and monitoring program on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental impacts on the physical environment.

This Mitigation Monitoring and Reporting Program (MMRP) will be used by WSAFCA to ensure that mitigation measures identified in the Final EIR are implemented as described in the Final EIR and that their implementation is documented.

The MMRP is presented in tabular format. The table columns contain the following information:

**Mitigation Number:** Lists the mitigation measures by number, as designated in the Final EIR.

**Mitigation Measure:** Provides the text of the mitigation measures, each of which has been adopted and incorporated into the project.

**Timing/Schedule:** Lists the time frame in which the mitigation measure is expected to take place.

**Implementation Responsibility:** Identifies the entity responsible for implementing the mitigation measure.

**Completion of Implementation:** WSAFCA is responsible for reporting on implementation of the mitigation measures. The “Completion of Implementation” column is to be used by WSAFCA to indicate when implementation of a mitigation measure has been completed. WSAFCA, at its discretion, may delegate implementation responsibility or portions thereof to qualified consultants or contractors.

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number  | Mitigation Measure  | Timing/Schedule                              | Implementation Responsibility | Completion of Implementation |
|--------------------|---|--|-------------------------------|------------------------------|
| <b>Air Quality</b> |   |  |                               |                              |
| <b>AIR-MM-6</b>    | <p><b>Reduce Construction Related Exhaust Emissions in SMAQMD.</b></p> <p>WSAFCA will comply with the following measures during construction to reduce emissions of NOx in exhaust:</p> <ul style="list-style-type: none"> <li>▪ Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.</li> <li>▪ WSAFCA will provide a plan for approval by SMAQMD that demonstrates the heavy-duty off-road vehicles (50 horsepower or more) to be used 8 hours or more during the construction project will achieve a project wide fleet-average 10 percent NOx reduction compared to the most recent California Air Resources Board fleet average. The plan shall have two components: an initial report submitted before construction and a final report submitted at the completion. The plan shall be prepared with the following: <ul style="list-style-type: none"> <li>▪ Acceptable options for reducing emissions may include use of cleaner engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available.</li> <li>▪ Submit the initial report at least four (4) business days prior to construction activity using the Sac Metro Air District's Construction Mitigation Tool (<a href="http://www.airquality.org/businesses/ceqa-land-use-planning/mitigation">http://www.airquality.org/businesses/ceqa-land-use-planning/mitigation</a>).</li> <li>▪ Provide project information and construction company information.</li> <li>▪ Include the equipment type, horsepower rating, engine model year, projected hours of use, and the California Air Resources Board equipment identification number for each piece of equipment in the plan. Incorporate all owned, leased and subcontracted equipment to be used.</li> <li>▪ Submit the final report at the end of the job, phase, or calendar year, as pre-arranged with SMAQMD staff and documented in the approval letter, to demonstrate continued project compliance.</li> </ul> </li> </ul> | Prior to and during construction activities. | WSAFCA                        |                              |
| <b>AIR-MM-7</b>    | <p><b>Off-Site NOx Construction Mitigation Fees in SMAQMD</b></p> <p>WSAFCA will comply with the following measures to pay an off-site construction mitigation fee to reduce NOx emissions:</p> <ul style="list-style-type: none"> <li>▪ WSAFCA shall pay a mitigation fee in the amount of \$30,000 per ton of NOx emissions and a 5% administrative fee in the amount of \$1,500 per ton of NOx emissions to SMAQMD to reduce the project impacts from construction NOx emissions to below an average of 85 pounds per day. Exceedance of the SMAQMD NOx significance threshold is estimated at 1.25 tons over the 5</li> </ul>   | Prior to construction activities.            | WSAFCA                        |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number     | Mitigation Measure   | Timing/Schedule                 | Implementation Responsibility | Completion of Implementation |
|-----------------------|--|---------------------------------|-------------------------------|------------------------------|
|                       | <p>month/130 working day construction period; resulting in mitigation fee of \$39,312.</p> <ul style="list-style-type: none"> <li>▪ The project applicant, or its designee, shall pay the mitigation and administrative fees in full prior to commencement of proposed project construction activities generating NOx emissions.</li> <li>▪ An alternative payment plan may be negotiated by WSAFCA based on the timing of construction. Any alternative payment plan must be acceptable to SMAQMD and agreed upon in writing prior to commencement of proposed project construction activities generating GHG emissions.</li> <li>▪ In coordination with SMAQMD, WSAFCA may reanalyze construction NOx emissions from the proposed project prior to commencing construction to update the required mitigation and administrative fees.</li> </ul>   |                                 |                               |                              |
| <b>Climate Change</b> |  |                                 |                               |                              |
| CC-MM-2               | <p><b>Implement SMAQMD Construction GHG Emissions Reduction Best Management Practices</b></p> <p>WSAFCA will implement the following measures where possible during construction to reduce emissions of GHG in exhaust:</p> <ul style="list-style-type: none"> <li>▪ Improve fuel efficiency from construction equipment: <ul style="list-style-type: none"> <li>• Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to no more than 3 minutes (5-minute limit is required by the state airborne toxics control measure [Title 13, sections 2449(d)(3) and 2485 of the California Code of Regulations]). Provide clear signage that posts this requirement for workers at the entrances to the site.</li> <li>• Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.</li> <li>• Train equipment operators in proper use of equipment.</li> <li>• Use the proper size of equipment for the job.</li> </ul> </li> <li>▪ Perform on-site material hauling with trucks equipped with on-road engines (if determined to be less emissive than the off-road engines).</li> <li>▪ Use alternative fuels for generators at construction sites such as propane or solar, or use electrical power.</li> <li>▪ Use a California Air Resources Board approved low carbon fuel for construction equipment. (NOx emissions from the use of low carbon fuel must be reviewed and increases mitigated.)</li> </ul> | During construction activities. | WSAFCA                        |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number              | Mitigation Measure   | Timing/Schedule                   | Implementation Responsibility | Completion of Implementation |
|--------------------------------|--|-----------------------------------|-------------------------------|------------------------------|
|                                | <ul style="list-style-type: none"> <li>Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction worker commutes.</li> </ul>   |                                   |                               |                              |
| CC-MM-3                        | <p><b>Off-Site GHG Construction Mitigation Credits</b></p> <p>WSAFCA will purchase project total GHG emissions credits that will be equal to GHG emissions in exceedance of the SMAQMD significance threshold, equivalent to 667.5 MTs of CO<sub>2</sub>e, or WSAFCA may reanalyze construction GHG emissions from the proposed project, including with implementation of Mitigation Measure CC-MM-2, prior to commencing construction to update emissions and required mitigation.</p> <p>For purchased credits, WSAFCA will open a Climate Action Reserve account or engage a private broker to facilitate the purchase of carbon offset credits that are real, permanent, and verifiable from a voluntary market. Carbon offset credits purchased by WSAFCA will be banked by the Climate Action Reserve, so that carbon offset credits purchased are real, permanent, and verifiable. Carbon offset credits will be measured in metric tons of CO<sub>2</sub>e. Documentation of purchased GHG offsets will be provided to the SMAQMD prior to commencement of proposed project construction activities generating GHG emissions.</p>  | Prior to construction activities. | WSAFCA                        |                              |
| <b>Vegetation and Wetlands</b> |  |                                   |                               |                              |
| VEG-MM-3                       | <p><b>Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel</b></p> <p>Before any work occurs in the project area, including grading, a qualified biologist will conduct mandatory contractor/worker awareness training for construction personnel. The awareness training will be provided to all construction personnel to brief them 1 on the need to avoid effects on sensitive biological resources (e.g., riparian habitat, special-status species, wetlands and other sensitive biological communities) and the penalties for not complying with permit requirements. The biologist will inform all construction personnel about the life history of special-status species with potential for occurrence on site, the importance of maintaining habitat, and the terms and conditions of the biological opinion or other authorizing document. Proof of this instruction will be submitted to USFWS, CDFW, or other overseeing agency, as appropriate.</p> <p>The training will also cover the restrictions and guidelines that must be followed by all construction personnel to reduce or avoid effects on sensitive biological communities and special-status species during project construction. The crew leader will be responsible for ensuring that crew members adhere to the guidelines and restrictions. Educational training will be conducted for new personnel as they are brought on the job during the construction period.</p> <p>General restrictions and guidelines for vegetation and wildlife that must be followed by construction personnel are listed below.</p> | Prior to construction activities. | WSAFCA                        |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number       | Mitigation Measure  | Timing/Schedule                          | Implementation Responsibility | Completion of Implementation |
|-------------------------|---|--|-------------------------------|------------------------------|
|                         | <ul style="list-style-type: none"> <li>▪ Project-related vehicles will observe the posted speed limit on hard-surfaced roads and a 10-mile-per-hour speed limit on unpaved roads during travel in the project site.</li> <li>▪ Project-related vehicles and construction equipment will restrict off-road travel to the designated construction area.</li> <li>▪ All food-related trash will be disposed of in closed containers and removed from the project area at least once a week during the construction period. Construction personnel will not feed or otherwise attract fish or wildlife to the project site.</li> <li>▪ No pets or firearms will be allowed in the project site.</li> <li>▪ To prevent possible resource damage from hazardous materials such as motor oil or gasoline, construction personnel will not service vehicles or construction equipment outside designated staging areas.</li> </ul>  |  |                               |                              |
| <p><b>WILD-MM-8</b></p> | <p><b>Avoid Disturbance of Tree-, Shrub-, and Ground-Nesting Special-Status and Non- Special-Status Migratory Birds and Raptors and Conduct Preconstruction Nesting Bird Surveys</b></p> <p>To avoid and minimize effects on nesting special-status and non–special-status migratory birds and raptors, WSAFCA will implement the appropriate surveys and restrictions.</p> <ul style="list-style-type: none"> <li>▪ To avoid removing or disturbing any active Swainson’s hawk nests, other special-status birds’ nests, or non–special-status migratory bird nests, tree and shrub removal will be conducted during the nonbreeding season (generally between September 1 and January 31) or after a qualified biologist determines that fledglings have left an active nest. If this is not feasible, it is likely that there will be nesting birds in the project area, which will require a buffer and avoidance during construction until the birds have fledged. This could seriously constrain construction and result in project delays.</li> <li>▪ If construction or tree-felling activities will occur during the breeding season (February 1 through August 31), a qualified wildlife biologist (with knowledge of the species to be surveyed) will be retained to conduct surveys for nesting birds for all trees and shrubs and ground-nesting habitat located within 500 feet (0.50 mile for Swainson’s hawk) of construction activities, including grading, vegetation removal, and excavation in borrow sites.</li> <li>▪ The following focused nesting surveys will take place prior to the start of construction and in the appropriate habitat: <ul style="list-style-type: none"> <li>○ Swainson’s hawk surveys will rely on the <i>Recommended Timing and Methodology for Swainson’s Hawk Nesting Surveys in California’s Central Valley</i> (Swainson’s Hawk Technical Advisory Committee 2000), with appropriate modifications based on yearly differences in hawks</li> </ul> </li> </ul> | <p>Prior to and during construction.</p> | <p>WSAFCA</p>                 |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number | Mitigation Measure   | Timing/Schedule | Implementation Responsibility | Completion of Implementation |
|-------------------|--|-----------------|-------------------------------|------------------------------|
|                   | <p>nesting timing and site conditions. For Swainson’s hawk, surveys will be conducted within the project area and within 0.50 mile of the project area (where access from public roads is available and where there are no significant barriers, such as the Sacramento River or Deep Water Ship Channel). The guidelines recommend that surveys be completed for at least the two survey periods immediately prior to a project’s initiation. The survey dates may be adjusted depending on when birds return to the area. The survey periods include Period I: January–March 20, consisting of one survey to identify potential nest sites; Period II: March 20–April 5, consisting of three surveys to identify nesting territories; Period III: April 5–April 20, consisting of three surveys when active nest locations are most easily identified; Period IV: April 21–June 10, only surveys of known nest sites are recommended during this period when birds are laying and incubating eggs; and Period V: Jun 10–July 30, consisting of surveys to observe post-fledging success at the nests. At least one survey will be conducted no more than 48 hours prior to the start of construction to confirm the absence of nesting.</p> <ul style="list-style-type: none"> <li>○ Other bird nest surveys (within 500 feet of construction activities) can be conducted concurrent with Swainson’s hawk surveys with at least one survey to be conducted no more than 48 hours from the initiation of project activities to confirm the absence of nesting.</li> <li>▪ If the biologist determines that the area surveyed does not contain any active nests, construction activities, including removal or pruning of trees and shrubs, can commence without any further mitigation.</li> <li>▪ If an active nest is located in the proposed disturbance area, the wildlife biologist will consult with CDFW to establish a suitable buffer zone. If it is determined the nest is of a listed species, CDFW will be contacted for further avoidance measures. At a minimum, all work within 0.50 mile of the nest will be halted until consultation with the CDFW and/or the USFWS, or the conditions of any issued endangered species permit will be followed. If a non-listed raptor nest is located within 250 feet or a migratory bird nest is located within 100 feet of disturbance, and the disturbance must take place during the breeding season, a buffer zone will be established by the biologist and confirmed by the appropriate resource agency (CDFW and/or USFWS). The buffer area requirements are 250 feet for any active raptor nest and 100 feet for any migratory bird nest or as defined by CDFW and/or USFWS. A qualified wildlife biologist will monitor the nest to determine when the young have fledged and submit bi-weekly reports throughout the nesting season. The biological monitor will have the authority to cease construction if there is any sign of distress to any raptor or migratory bird. Reference to this requirement and the MBTA will be included in the construction specifications.</li> </ul> |                 |                               |                              |



**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number | Mitigation Measure  | Timing/Schedule                   | Implementation Responsibility | Completion of Implementation |
|-------------------|---|-----------------------------------|-------------------------------|------------------------------|
| WILD-MM-10        | <p><b>Conduct Preconstruction Surveys for Active Burrowing Owl Burrows and Implement the 2012 California Department of Fish and Game Guidelines for Burrowing Owl Mitigation, If Necessary.</b></p> <p>A preconstruction survey for burrowing owl will be completed, in accordance with CDFW guidelines described in the 2012 <i>Staff Report on Burrowing Owl Mitigation</i>, prior to the start of construction (including excavation of borrow sites) (California Department of Fish and Game 2012). The appropriate survey area will be determined by a qualified biologist coordinating with WSAFCA and CDFW to cover any project areas where potentially breeding or non-breeding burrowing owls could be disturbed by project activities. Surveys will be conducted during the nonbreeding season (September 1 through January 31) and breeding season (February 1 through August 31). Surveys will be conducted from 2 hours before sunset to 1 hour after, or from 1 hour before or 2 hours after sunrise. At least one survey will occur within 48 hours of the start of construction. If no burrowing owls are located during these surveys, no additional action is warranted. However, if breeding or resident owls are located on or immediately adjacent to the site, the following measures will be implemented.</p> <ul style="list-style-type: none"> <li>▪ No burrowing owls will be evicted from burrows during the breeding 1 season (February 1 through August 31). Eviction outside the breeding season may be permitted pending evaluation of eviction plans and receipt of formal written approval from CDFW authorizing the eviction.</li> <li>▪ If owls must be moved away from the project site during the nonbreeding season, passive relocation techniques (e.g., installing one-way doors at burrow entrances) will be used instead of trapping, as described in CDFW guidelines. At least 1 week will be necessary to complete passive relocation and allow owls to acclimate to alternate burrows.</li> <li>▪ When destruction of occupied burrows is unavoidable during the nonbreeding season (September 1–February 1), unsuitable burrows will be enhanced (enlarged or cleared of debris) or new burrows created (by installing artificial burrows) at a ratio of 2:1 on protected lands approved by CDFW. Newly created burrows will follow guidelines established by CDFW.</li> <li>▪ A no-disturbance buffer, within which no new activity would be permissible, will be maintained between project activities and nesting burrowing owls. Buffers will be determined by a qualified biologist, coordinating with CDFW, and will depend on one or more of the following factors: season of activity, level of noise or construction activity, level of ambient noise in the vicinity, and line-of-sight. This protected area will remain in effect until September 1, or at CDFW's discretion and based on monitoring evidence, until the young owls are foraging independently.</li> </ul> | Prior to construction activities. | WSAFCA                        |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number         | Mitigation Measure  | Timing/Schedule                              | Implementation Responsibility         | Completion of Implementation |
|---------------------------|---|--|---------------------------------------|------------------------------|
|                           | <ul style="list-style-type: none"> <li>If accidental disturbance, injury, or death of owls occurs, the CDFW will be notified immediately.</li> </ul>  |  |                                       |                              |
| <b>WILD-MM-11</b>         | <p><b>Coordinate with Resource Agencies and Develop an Appropriate Compensation Plan for Burrowing Owl</b></p> <p>If a preconstruction survey finds that burrowing owls occupy a project area, and occupied habitat will be converted to unsuitable habitat, habitat compensation will be implemented.</p>  | Prior to construction activities.            | WSAFCA                                |                              |
| <b>Visual Resources</b>   |   |  |                                       |                              |
| <b>VIS-MM-4</b>           | <p><b>At the Restoration Sites, Limit Use of Lighting Near Sensitive Receptors During Construction Activities at Night</b></p> <p>Use of all lighting during construction activities at night shall be aimed in the opposite direction of nearby sensitive receptors/residences. Use of lighting is prohibited at night within 750 feet of residences nearby the restoration sites. Furthermore, residences within 1,000 feet of the restoration sites shall be provided notice that nighttime construction activities and lighting may be used 750 feet or further away during the construction period for the proposed project.</p>   | Prior to and during construction activities. | WSAFCA                                |                              |
| <b>Cultural Resources</b> |   |  |                                       |                              |
| <b>CUL-MM-1</b>           | <p><b>Implement Avoidance, Minimization, and Preservation Measures Should Tribal Cultural Resources Be Discovered During Construction</b></p> <p>If tribal cultural resources (such as Native American archaeological materials, sacred objects, unusual amounts of bone or shell, artifacts, or human remains and associated objects and materials) are encountered at the project site during construction, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural materials), and the construction contractor shall immediately notify the project's WSAFCA representative. Avoidance and preservation in place are the preferred manner of mitigating impacts to cultural resources or tribal cultural resources. This will be accomplished, if feasible, by several alternative means, including:</p> <ul style="list-style-type: none"> <li>Planning construction to avoid tribal cultural resource; incorporating tribal resources within parks, green-space or other open space; covering tribal resources; deeding a tribal resource to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.</li> <li>Recommendations for avoidance of tribal cultural resources will be reviewed by WSAFCA's representative, interested culturally affiliated Native American tribes and other appropriate agencies, considering factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with project</li> </ul> | During construction activities.              | WSAFCA and/or Construction Contractor |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number | Mitigation Measure   | Timing/Schedule | Implementation Responsibility | Completion of Implementation |
|-------------------|--|-----------------|-------------------------------|------------------------------|
|                   | <p>objectives. Avoidance and design alternatives may include realignment and/or revision of construction equipment activities within the project site to avoid tribal cultural resources, modification of the design to eliminate or reduce impacts to tribal cultural resources or modification or realignment to avoid highly significant features within a tribal cultural resource.</p> <ul style="list-style-type: none"> <li>▪ Native American representatives from interested culturally affiliated Native American tribes will be invited to review and comment on these analyses and shall have the opportunity to meet with the WSAFCA representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.</li> <li>▪ If the discovered tribal cultural resource can be avoided, the construction contractor(s), will install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts. The boundary of a tribal cultural resource will be determined in consultation with interested culturally affiliated Native American tribes and tribes will be invited to monitor the installation of fencing. Use of temporary and permanent forms of protective fencing will be determined in consultation with Native American representatives from interested culturally affiliated Native American tribes.</li> <li>▪ The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".</li> </ul> <p>If a tribal cultural resource cannot be avoided, the following performance standard shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of tribal cultural resources:</p> <ul style="list-style-type: none"> <li>▪ Each resource will be evaluated for California Register of Historical Resources (CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes, as applicable.</li> </ul> <p>If a tribal cultural resource is determined to be eligible for listing in the CRHR, WSAFCA will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. WSAFCA shall coordinate the investigation of the find with a qualified archaeologist (meeting the Secretary of the Interior's Professional Qualifications Standards for Archeology) approved by WSAFCA and with interested culturally affiliated Native American tribes that respond to WSAFCA's invitation. As part of the site investigation and resource assessment, WSAFCA and the archaeologist shall consult with interested culturally affiliated Native American tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by</p> |                 |                               |                              |

**Table 1. Southport Sacramento River EIP Supplemental EIR Mitigation Monitoring and Reporting Program**

| Mitigation Number | Mitigation Measure   | Timing/Schedule | Implementation Responsibility | Completion of Implementation |
|-------------------|--|-----------------|-------------------------------|------------------------------|
|                   | <p>WSAFCA to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to WSAFCA representative by the qualified archaeologist. These recommendations will be documented in the project record. For any recommendations made by interested culturally affiliated Native American tribes that are not implemented, a justification for why the recommendation was not followed will be provided in the project record. Native American representatives from interested culturally affiliated Native American Tribes and the WSAFCA representative will also consult to develop measures for long-term management of any discovered tribal cultural resources. Consultation will be limited to actions consistent with the jurisdiction of WSAFCA and considering ownership of the subject property.</p> <p>If WSAFCA determines that the project may cause a significant impact to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:</p> <p>Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria. Treat the resource with culturally appropriate dignity considering Tribal cultural values and meaning of the resource, including, but not limited to, the following:</p> <ul style="list-style-type: none"> <li>▪ Protect the cultural character and integrity of the resource.</li> <li>▪ Protect the traditional use of the resource.</li> <li>▪ Protect the confidentiality of the resource.</li> <li>▪ Establish permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.</li> <li>▪ Protect the resource.</li> </ul> |                 |                               |                              |

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**Appendix D. Updated Air and Greenhouse Gas Emissions Modelling**

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WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Annual

**WSAFCA Southport Levee Improvement Project**  
**Sacramento Metropolitan AQMD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 124.00 | Dwelling Unit | 40.26       | 223,200.00         | 331        |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 3.5 | <b>Precipitation Freq (Days)</b> | 58   |
| <b>Climate Zone</b>             | 6     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Annual

Project Characteristics - This file reflects responses to comments from the SMAQMD. Changes made 11-8-19.

Land Use - Assuming 124 units of single houses nearby to account for the borrow site size of 40 acres

Construction Phase - changed project year to 2020

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate the 10 hours per day.

Trips and VMT - No truck trips for site restoration

Grading - SRWTP Borrow Site. 11-8-19 "Material Imported" changed to 600,000.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Water exposed areas 2 times a day.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblAreaCoating          | Area_Residential_Exterior      | 150660        | 131220    |
| tblAreaCoating          | Area_Residential_Interior      | 451980        | 393660    |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |



WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Annual

|                         |                            |        |            |
|-------------------------|----------------------------|--------|------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00   | 1.00       |
| tblConstructionPhase    | NumDays                    | 740.00 | 108.00     |
| tblConstructionPhase    | NumDays                    | 75.00  | 108.00     |
| tblFireplaces           | NumberNoFireplace          | 124.00 | 108.00     |
| tblGrading              | AcresOfGrading             | 67.50  | 40.00      |
| tblGrading              | MaterialImported           | 0.00   | 600,000.00 |
| tblOffRoadEquipment     | HorsePower                 | 187.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 247.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 367.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 231.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 89.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 84.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 46.00  | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.41   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.40   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.48   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.29   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.20   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.74   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.45   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 1.00   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 2.00   | 1.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 3.00   | 0.00       |

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|                     |                            |           |           |
|---------------------|----------------------------|-----------|-----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 10.00     |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblRoadDust         | CARB_PM_VMT                | True      | False     |
| tblSolidWaste       | SolidWasteGenerationRate   | 119.16    | 103.68    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 0.00      |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 13.30     |
| tblTripsAndVMT      | HaulingTripNumber          | 75,000.00 | 0.00      |
| tblTripsAndVMT      | HaulingTripNumber          | 0.00      | 40,000.00 |
| tblTripsAndVMT      | VendorTripLength           | 6.50      | 0.00      |
| tblTripsAndVMT      | VendorTripNumber           | 13.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 14.00     |

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|                |                     |              |              |
|----------------|---------------------|--------------|--------------|
| tblTripsAndVMT | WorkerTripNumber    | 10.00        | 0.00         |
| tblTripsAndVMT | WorkerTripNumber    | 45.00        | 80.00        |
| tblWater       | IndoorWaterUseRate  | 8,079,099.18 | 7,036,634.77 |
| tblWater       | OutdoorWaterUseRate | 5,093,345.13 | 4,436,139.31 |

## 2.0 Emissions Summary

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| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1       | 10-1-2020  | 12-31-2020 | 3.6605                                       | 3.6605                                     |
| 2       | 1-1-2021   | 3-31-2021  | 2.1906                                       | 2.1906                                     |
|         |            | Highest    | 3.6605                                       | 3.6605                                     |

2.2 Overall Operational

Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |                    |                   |
| Area         | 1.0322        | 0.0148        | 1.2816        | 7.0000e-005   |               | 7.0600e-003   | 7.0600e-003   |                | 7.0600e-003   | 7.0600e-003   | 0.0000         | 2.0889            | 2.0889            | 2.0200e-003   | 0.0000             | 2.1395            |
| Energy       | 0.0173        | 0.1476        | 0.0628        | 9.4000e-004   |               | 0.0119        | 0.0119        |                | 0.0119        | 0.0119        | 0.0000         | 170.9510          | 170.9510          | 3.2800e-003   | 3.1300e-003        | 171.9669          |
| Mobile       | 0.3694        | 1.5925        | 4.3776        | 0.0133        | 1.1213        | 0.0119        | 1.1332        | 0.3007         | 0.0112        | 0.3119        | 0.0000         | 1,220.4533        | 1,220.4533        | 0.0599        | 0.0000             | 1,221.9512        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 21.0461        | 0.0000            | 21.0461           | 1.2438        | 0.0000             | 52.1408           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 2.4896         | 0.0000            | 2.4896            | 8.5700e-003   | 5.4100e-003        | 4.3172            |
| <b>Total</b> | <b>1.4189</b> | <b>1.7549</b> | <b>5.7219</b> | <b>0.0143</b> | <b>1.1213</b> | <b>0.0309</b> | <b>1.1522</b> | <b>0.3007</b>  | <b>0.0302</b> | <b>0.3308</b> | <b>23.5357</b> | <b>1,393.4931</b> | <b>1,417.0288</b> | <b>1.3176</b> | <b>8.5400e-003</b> | <b>1,452.5156</b> |

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**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |                    |                   |
| Area         | 1.0322        | 0.0148        | 1.2816        | 7.0000e-005   |               | 7.0600e-003   | 7.0600e-003   |                | 7.0600e-003   | 7.0600e-003   | 0.0000         | 2.0889            | 2.0889            | 2.0200e-003   | 0.0000             | 2.1395            |
| Energy       | 0.0173        | 0.1476        | 0.0628        | 9.4000e-004   |               | 0.0119        | 0.0119        |                | 0.0119        | 0.0119        | 0.0000         | 170.9510          | 170.9510          | 3.2800e-003   | 3.1300e-003        | 171.9669          |
| Mobile       | 0.3694        | 1.5925        | 4.3776        | 0.0133        | 1.1213        | 0.0119        | 1.1332        | 0.3007         | 0.0112        | 0.3119        | 0.0000         | 1,220.4533        | 1,220.4533        | 0.0599        | 0.0000             | 1,221.9512        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 21.0461        | 0.0000            | 21.0461           | 1.2438        | 0.0000             | 52.1408           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 2.4896         | 0.0000            | 2.4896            | 8.5700e-003   | 5.4100e-003        | 4.3172            |
| <b>Total</b> | <b>1.4189</b> | <b>1.7549</b> | <b>5.7219</b> | <b>0.0143</b> | <b>1.1213</b> | <b>0.0309</b> | <b>1.1522</b> | <b>0.3007</b>  | <b>0.0302</b> | <b>0.3308</b> | <b>23.5357</b> | <b>1,393.4931</b> | <b>1,417.0288</b> | <b>1.3176</b> | <b>8.5400e-003</b> | <b>1,452.5156</b> |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |
| 2            | File Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Crawler Tractors          | 1      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 1      | 10.00       | 158         | 0.38        |
| Site Restoration      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Scrapers                  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Generator Sets            | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Welders                   | 0      | 0.00        | 0           | 0.00        |

**Trips and VMT**

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| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 4                       | 0.00               | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 13.30               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0833        | 0.0000        | 0.0833        | 0.0117         | 0.0000        | 0.0117        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0725        | 0.7636        | 0.4771        | 1.1900e-003        |               | 0.0336        | 0.0336        |                | 0.0309        | 0.0309        | 0.0000        | 104.2299        | 104.2299        | 0.0337        | 0.0000        | 105.0727        |
| <b>Total</b>  | <b>0.0725</b> | <b>0.7636</b> | <b>0.4771</b> | <b>1.1900e-003</b> | <b>0.0833</b> | <b>0.0336</b> | <b>0.1169</b> | <b>0.0117</b>  | <b>0.0309</b> | <b>0.0426</b> | <b>0.0000</b> | <b>104.2299</b> | <b>104.2299</b> | <b>0.0337</b> | <b>0.0000</b> | <b>105.0727</b> |



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**3.2 Site Restoration - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                    |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0375        | 0.0000        | 0.0375        | 5.2600e-003        | 0.0000        | 5.2600e-003   | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0725        | 0.7636        | 0.4771        | 1.1900e-003        |               | 0.0336        | 0.0336        |                    | 0.0309        | 0.0309        | 0.0000        | 104.2298        | 104.2298        | 0.0337        | 0.0000        | 105.0726        |
| <b>Total</b>  | <b>0.0725</b> | <b>0.7636</b> | <b>0.4771</b> | <b>1.1900e-003</b> | <b>0.0375</b> | <b>0.0336</b> | <b>0.0711</b> | <b>5.2600e-003</b> | <b>0.0309</b> | <b>0.0362</b> | <b>0.0000</b> | <b>104.2298</b> | <b>104.2298</b> | <b>0.0337</b> | <b>0.0000</b> | <b>105.0726</b> |

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**3.2 Site Restoration - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0833        | 0.0000        | 0.0833        | 0.0117         | 0.0000        | 0.0117        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0424        | 0.4316        | 0.2956        | 7.6000e-004        |               | 0.0187        | 0.0187        |                | 0.0172        | 0.0172        | 0.0000        | 66.3269        | 66.3269        | 0.0215        | 0.0000        | 66.8632        |
| <b>Total</b>  | <b>0.0424</b> | <b>0.4316</b> | <b>0.2956</b> | <b>7.6000e-004</b> | <b>0.0833</b> | <b>0.0187</b> | <b>0.1019</b> | <b>0.0117</b>  | <b>0.0172</b> | <b>0.0289</b> | <b>0.0000</b> | <b>66.3269</b> | <b>66.3269</b> | <b>0.0215</b> | <b>0.0000</b> | <b>66.8632</b> |

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**3.2 Site Restoration - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0375        | 0.0000        | 0.0375        | 5.2600e-003        | 0.0000        | 5.2600e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0424        | 0.4316        | 0.2956        | 7.6000e-004        |               | 0.0187        | 0.0187        |                    | 0.0172        | 0.0172        | 0.0000        | 66.3268        | 66.3268        | 0.0215        | 0.0000        | 66.8631        |
| <b>Total</b>  | <b>0.0424</b> | <b>0.4316</b> | <b>0.2956</b> | <b>7.6000e-004</b> | <b>0.0375</b> | <b>0.0187</b> | <b>0.0561</b> | <b>5.2600e-003</b> | <b>0.0172</b> | <b>0.0224</b> | <b>0.0000</b> | <b>66.3268</b> | <b>66.3268</b> | <b>0.0215</b> | <b>0.0000</b> | <b>66.8631</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0703        | 2.7422        | 0.5928        | 6.7700e-003        | 0.2029        | 8.7700e-003        | 0.2117        | 0.0538         | 8.3900e-003        | 0.0622        | 0.0000        | 657.8751        | 657.8751        | 0.0423        | 0.0000        | 658.9323        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 0.0126        | 8.9400e-003   | 0.0966        | 2.6000e-004        | 0.0271        | 1.9000e-004        | 0.0273        | 7.2200e-003    | 1.7000e-004        | 7.3900e-003   | 0.0000        | 23.8342         | 23.8342         | 6.5000e-004   | 0.0000        | 23.8505         |
| <b>Total</b> | <b>0.0829</b> | <b>2.7511</b> | <b>0.6894</b> | <b>7.0300e-003</b> | <b>0.2300</b> | <b>8.9600e-003</b> | <b>0.2390</b> | <b>0.0610</b>  | <b>8.5600e-003</b> | <b>0.0696</b> | <b>0.0000</b> | <b>681.7093</b> | <b>681.7093</b> | <b>0.0429</b> | <b>0.0000</b> | <b>682.7829</b> |

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**3.3 File Material Hauling - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0703        | 2.7422        | 0.5928        | 6.7700e-003        | 0.1877        | 8.7700e-003        | 0.1965        | 0.0501         | 8.3900e-003        | 0.0585        | 0.0000        | 657.8751        | 657.8751        | 0.0423        | 0.0000        | 658.9323        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 0.0126        | 8.9400e-003   | 0.0966        | 2.6000e-004        | 0.0250        | 1.9000e-004        | 0.0252        | 6.7000e-003    | 1.7000e-004        | 6.8700e-003   | 0.0000        | 23.8342         | 23.8342         | 6.5000e-004   | 0.0000        | 23.8505         |
| <b>Total</b> | <b>0.0829</b> | <b>2.7511</b> | <b>0.6894</b> | <b>7.0300e-003</b> | <b>0.2127</b> | <b>8.9600e-003</b> | <b>0.2217</b> | <b>0.0568</b>  | <b>8.5600e-003</b> | <b>0.0653</b> | <b>0.0000</b> | <b>681.7093</b> | <b>681.7093</b> | <b>0.0429</b> | <b>0.0000</b> | <b>682.7829</b> |

**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0414        | 1.6163        | 0.3480        | 4.2600e-003        | 0.1905        | 4.9200e-003        | 0.1954        | 0.0493         | 4.7000e-003        | 0.0540        | 0.0000        | 413.9060        | 413.9060        | 0.0264        | 0.0000        | 414.5655        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 7.4500e-003   | 5.1000e-003   | 0.0563        | 1.6000e-004        | 0.0173        | 1.2000e-004        | 0.0174        | 4.5900e-003    | 1.1000e-004        | 4.7000e-003   | 0.0000        | 14.6503         | 14.6503         | 3.7000e-004   | 0.0000        | 14.6596         |
| <b>Total</b> | <b>0.0488</b> | <b>1.6214</b> | <b>0.4043</b> | <b>4.4200e-003</b> | <b>0.2078</b> | <b>5.0400e-003</b> | <b>0.2128</b> | <b>0.0539</b>  | <b>4.8100e-003</b> | <b>0.0587</b> | <b>0.0000</b> | <b>428.5563</b> | <b>428.5563</b> | <b>0.0268</b> | <b>0.0000</b> | <b>429.2250</b> |

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**3.3 File Material Hauling - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0414        | 1.6163        | 0.3480        | 4.2600e-003        | 0.1753        | 4.9200e-003        | 0.1802        | 0.0456         | 4.7000e-003        | 0.0503        | 0.0000        | 413.9060        | 413.9060        | 0.0264        | 0.0000        | 414.5655        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 7.4500e-003   | 5.1000e-003   | 0.0563        | 1.6000e-004        | 0.0159        | 1.2000e-004        | 0.0160        | 4.2600e-003    | 1.1000e-004        | 4.3700e-003   | 0.0000        | 14.6503         | 14.6503         | 3.7000e-004   | 0.0000        | 14.6596         |
| <b>Total</b> | <b>0.0488</b> | <b>1.6214</b> | <b>0.4043</b> | <b>4.4200e-003</b> | <b>0.1912</b> | <b>5.0400e-003</b> | <b>0.1962</b> | <b>0.0498</b>  | <b>4.8100e-003</b> | <b>0.0546</b> | <b>0.0000</b> | <b>428.5563</b> | <b>428.5563</b> | <b>0.0268</b> | <b>0.0000</b> | <b>429.2250</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O    | CO2e           |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |                |                |        |        |                |
| Mitigated   | 0.3694  | 1.5925 | 4.3776 | 0.0133 | 1.1213        | 0.0119       | 1.1332     | 0.3007         | 0.0112        | 0.3119      | 0.0000   | 1,220.453<br>3 | 1,220.453<br>3 | 0.0599 | 0.0000 | 1,221.951<br>2 |
| Unmitigated | 0.3694  | 1.5925 | 4.3776 | 0.0133 | 1.1213        | 0.0119       | 1.1332     | 0.3007         | 0.0112        | 0.3119      | 0.0000   | 1,220.453<br>3 | 1,220.453<br>3 | 0.0599 | 0.0000 | 1,221.951<br>2 |

4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,180.48                | 1,228.84 | 1068.88  | 3,006,057   | 3,006,057  |
| Total                 | 1,180.48                | 1,228.84 | 1,068.88 | 3,006,057   | 3,006,057  |

4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.00      | 5.00       | 6.50        | 46.50      | 12.50      | 41.00       | 86             | 11       | 3       |

4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.555851 | 0.039752 | 0.205040 | 0.120748 | 0.020349 | 0.005402 | 0.018507 | 0.022668 | 0.002052 | 0.002157 | 0.005939 | 0.000618 | 0.000915 |

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000      | 0.0000      | 0.0000   |
| NaturalGas Mitigated    | 0.0173  | 0.1476 | 0.0628 | 9.4000e-004 |               | 0.0119       | 0.0119     |                | 0.0119        | 0.0119      | 0.0000   | 170.9510  | 170.9510  | 3.2800e-003 | 3.1300e-003 | 171.9669 |
| NaturalGas Unmitigated  | 0.0173  | 0.1476 | 0.0628 | 9.4000e-004 |               | 0.0119       | 0.0119     |                | 0.0119        | 0.0119      | 0.0000   | 170.9510  | 170.9510  | 3.2800e-003 | 3.1300e-003 | 171.9669 |

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Single Family Housing | 3.2035e+006    | 0.0173        | 0.1476        | 0.0628        | 9.4000e-004        |               | 0.0119        | 0.0119        |                | 0.0119        | 0.0119        | 0.0000        | 170.9510        | 170.9510        | 3.2800e-003        | 3.1300e-003        | 171.9669        |
| <b>Total</b>          |                | <b>0.0173</b> | <b>0.1476</b> | <b>0.0628</b> | <b>9.4000e-004</b> |               | <b>0.0119</b> | <b>0.0119</b> |                | <b>0.0119</b> | <b>0.0119</b> | <b>0.0000</b> | <b>170.9510</b> | <b>170.9510</b> | <b>3.2800e-003</b> | <b>3.1300e-003</b> | <b>171.9669</b> |



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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

|                       | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-----------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use              | kBTU/yr         | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Single Family Housing | 3.2035e+006     | 0.0173        | 0.1476        | 0.0628        | 9.4000e-004        |               | 0.0119        | 0.0119        |                | 0.0119        | 0.0119        | 0.0000        | 170.9510        | 170.9510        | 3.2800e-003        | 3.1300e-003        | 171.9669        |
| <b>Total</b>          |                 | <b>0.0173</b> | <b>0.1476</b> | <b>0.0628</b> | <b>9.4000e-004</b> |               | <b>0.0119</b> | <b>0.0119</b> |                | <b>0.0119</b> | <b>0.0119</b> | <b>0.0000</b> | <b>170.9510</b> | <b>170.9510</b> | <b>3.2800e-003</b> | <b>3.1300e-003</b> | <b>171.9669</b> |

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                       | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use              | kWh/yr          | MT/yr         |               |               |               |
| Single Family Housing | 1.04703e+006    | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

|                       | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use              | kWh/yr          | MT/yr         |               |               |               |
| Single Family Housing | 1.04703e+006    | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          |                 | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr |        |        |             |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 1.0322  | 0.0148 | 1.2816 | 7.0000e-005 |               | 7.0600e-003  | 7.0600e-003 |                | 7.0600e-003   | 7.0600e-003 | 0.0000   | 2.0889    | 2.0889    | 2.0200e-003 | 0.0000 | 2.1395 |
| Unmitigated | 1.0322  | 0.0148 | 1.2816 | 7.0000e-005 |               | 7.0600e-003  | 7.0600e-003 |                | 7.0600e-003   | 7.0600e-003 | 0.0000   | 2.0889    | 2.0889    | 2.0200e-003 | 0.0000 | 2.1395 |

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**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.1216        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.8717        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 0.0388        | 0.0148        | 1.2816        | 7.0000e-005        |               | 7.0600e-003        | 7.0600e-003        |                | 7.0600e-003        | 7.0600e-003        | 0.0000        | 2.0889        | 2.0889        | 2.0200e-003        | 0.0000        | 2.1395        |
| <b>Total</b>          | <b>1.0322</b> | <b>0.0148</b> | <b>1.2816</b> | <b>7.0000e-005</b> |               | <b>7.0600e-003</b> | <b>7.0600e-003</b> |                | <b>7.0600e-003</b> | <b>7.0600e-003</b> | <b>0.0000</b> | <b>2.0889</b> | <b>2.0889</b> | <b>2.0200e-003</b> | <b>0.0000</b> | <b>2.1395</b> |

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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.1216        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.8717        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 0.0388        | 0.0148        | 1.2816        | 7.0000e-005        |               | 7.0600e-003        | 7.0600e-003        |                | 7.0600e-003        | 7.0600e-003        | 0.0000        | 2.0889        | 2.0889        | 2.0200e-003        | 0.0000        | 2.1395        |
| <b>Total</b>          | <b>1.0322</b> | <b>0.0148</b> | <b>1.2816</b> | <b>7.0000e-005</b> |               | <b>7.0600e-003</b> | <b>7.0600e-003</b> |                | <b>7.0600e-003</b> | <b>7.0600e-003</b> | <b>0.0000</b> | <b>2.0889</b> | <b>2.0889</b> | <b>2.0200e-003</b> | <b>0.0000</b> | <b>2.1395</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 2.4896    | 8.5700e-003 | 5.4100e-003 | 4.3172 |
| Unmitigated | 2.4896    | 8.5700e-003 | 5.4100e-003 | 4.3172 |

**7.2 Water by Land Use**

**Unmitigated**

|                       | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-----------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use              | Mgal               | MT/yr         |                    |                    |               |
| Single Family Housing | 7.03663 / 4.43614  | 2.4896        | 8.5700e-003        | 5.4100e-003        | 4.3172        |
| <b>Total</b>          |                    | <b>2.4896</b> | <b>8.5700e-003</b> | <b>5.4100e-003</b> | <b>4.3172</b> |

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**7.2 Water by Land Use**

**Mitigated**

|                       | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-----------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use              | Mgal               | MT/yr         |                    |                    |               |
| Single Family Housing | 7.03663 / 4.43614  | 2.4896        | 8.5700e-003        | 5.4100e-003        | 4.3172        |
| <b>Total</b>          |                    | <b>2.4896</b> | <b>8.5700e-003</b> | <b>5.4100e-003</b> | <b>4.3172</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 21.0461   | 1.2438 | 0.0000 | 52.1408 |
| Unmitigated | 21.0461   | 1.2438 | 0.0000 | 52.1408 |

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**8.2 Waste by Land Use**

**Unmitigated**

|                       | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use              | tons           | MT/yr          |               |               |                |
| Single Family Housing | 103.68         | 21.0461        | 1.2438        | 0.0000        | 52.1408        |
| <b>Total</b>          |                | <b>21.0461</b> | <b>1.2438</b> | <b>0.0000</b> | <b>52.1408</b> |

**Mitigated**

|                       | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use              | tons           | MT/yr          |               |               |                |
| Single Family Housing | 103.68         | 21.0461        | 1.2438        | 0.0000        | 52.1408        |
| <b>Total</b>          |                | <b>21.0461</b> | <b>1.2438</b> | <b>0.0000</b> | <b>52.1408</b> |

**9.0 Operational Offroad**

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

**WSAFCA Southport Levee Improvement Project**  
**Sacramento Metropolitan AQMD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 124.00 | Dwelling Unit | 40.26       | 223,200.00         | 331        |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 3.5 | <b>Precipitation Freq (Days)</b> | 58   |
| <b>Climate Zone</b>             | 6     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - This file reflects responses to comments from the SMAQMD. Changes made 11-8-19.

Land Use - Assuming 124 units of single houses nearby to account for the borrow site size of 40 acres

Construction Phase - changed project year to 2020

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate the 10 hours per day.

Trips and VMT - No truck trips for site restoration

Grading - SRWTP Borrow Site. 11-8-19 "Material Imported" changed to 600,000.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Water exposed areas 2 times a day.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblAreaCoating          | Area_Residential_Exterior      | 150660        | 131220    |
| tblAreaCoating          | Area_Residential_Interior      | 451980        | 393660    |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |

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|                         |                            |        |            |
|-------------------------|----------------------------|--------|------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00   | 1.00       |
| tblConstructionPhase    | NumDays                    | 740.00 | 108.00     |
| tblConstructionPhase    | NumDays                    | 75.00  | 108.00     |
| tblFireplaces           | NumberNoFireplace          | 124.00 | 108.00     |
| tblGrading              | AcresOfGrading             | 67.50  | 40.00      |
| tblGrading              | MaterialImported           | 0.00   | 600,000.00 |
| tblOffRoadEquipment     | HorsePower                 | 187.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 247.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 367.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 231.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 89.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 84.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 46.00  | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.41   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.40   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.48   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.29   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.20   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.74   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.45   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 1.00   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 2.00   | 1.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 3.00   | 0.00       |

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|                     |                            |           |           |
|---------------------|----------------------------|-----------|-----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 10.00     |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblRoadDust         | CARB_PM_VMT                | True      | False     |
| tblSolidWaste       | SolidWasteGenerationRate   | 119.16    | 103.68    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 0.00      |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 13.30     |
| tblTripsAndVMT      | HaulingTripNumber          | 75,000.00 | 0.00      |
| tblTripsAndVMT      | HaulingTripNumber          | 0.00      | 40,000.00 |
| tblTripsAndVMT      | VendorTripLength           | 6.50      | 0.00      |
| tblTripsAndVMT      | VendorTripNumber           | 13.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 14.00     |

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|                |                     |              |              |
|----------------|---------------------|--------------|--------------|
| tblTripsAndVMT | WorkerTripNumber    | 10.00        | 0.00         |
| tblTripsAndVMT | WorkerTripNumber    | 45.00        | 80.00        |
| tblWater       | IndoorWaterUseRate  | 8,079,099.18 | 7,036,634.77 |
| tblWater       | OutdoorWaterUseRate | 5,093,345.13 | 4,436,139.31 |

## 2.0 Emissions Summary

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WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 5.7536        | 0.1184        | 10.2524        | 5.4000e-004   |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        | 0.0000        | 18.4205           | 18.4205           | 0.0179        | 0.0000        | 18.8668           |
| Energy       | 0.0947        | 0.8088        | 0.3442         | 5.1600e-003   |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |               | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| Mobile       | 2.6798        | 8.7956        | 28.3650        | 0.0829        | 6.6902        | 0.0685        | 6.7588        | 1.7888         | 0.0642        | 1.8530        |               | 8,390.1500        | 8,390.1500        | 0.3920        |               | 8,399.9495        |
| <b>Total</b> | <b>8.5281</b> | <b>9.7227</b> | <b>38.9616</b> | <b>0.0886</b> | <b>6.6902</b> | <b>0.1904</b> | <b>6.8807</b> | <b>1.7888</b>  | <b>0.1861</b> | <b>1.9749</b> | <b>0.0000</b> | <b>9,441.1253</b> | <b>9,441.1253</b> | <b>0.4296</b> | <b>0.0189</b> | <b>9,457.5072</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 5.7536        | 0.1184        | 10.2524        | 5.4000e-004   |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        | 0.0000        | 18.4205           | 18.4205           | 0.0179        | 0.0000        | 18.8668           |
| Energy       | 0.0947        | 0.8088        | 0.3442         | 5.1600e-003   |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |               | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| Mobile       | 2.6798        | 8.7956        | 28.3650        | 0.0829        | 6.6902        | 0.0685        | 6.7588        | 1.7888         | 0.0642        | 1.8530        |               | 8,390.1500        | 8,390.1500        | 0.3920        |               | 8,399.9495        |
| <b>Total</b> | <b>8.5281</b> | <b>9.7227</b> | <b>38.9616</b> | <b>0.0886</b> | <b>6.6902</b> | <b>0.1904</b> | <b>6.8807</b> | <b>1.7888</b>  | <b>0.1861</b> | <b>1.9749</b> | <b>0.0000</b> | <b>9,441.1253</b> | <b>9,441.1253</b> | <b>0.4296</b> | <b>0.0189</b> | <b>9,457.5072</b> |

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|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |
| 2            | Fill Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment



WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Crawler Tractors          | 1      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 1      | 10.00       | 158         | 0.38        |
| Site Restoration      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Scrapers                  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Generator Sets            | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Welders                   | 0      | 0.00        | 0           | 0.00        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 4                       | 0.00               | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 13.30               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.5417        | 0.0000        | 1.5417        | 0.2164         | 0.0000        | 0.2164        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1962        | 23.1379        | 14.4566        | 0.0360        |               | 1.0185        | 1.0185        |                | 0.9371        | 0.9371        |          | 3,481.6315        | 3,481.6315        | 1.1260        |     | 3,509.7823        |
| <b>Total</b>  | <b>2.1962</b> | <b>23.1379</b> | <b>14.4566</b> | <b>0.0360</b> | <b>1.5417</b> | <b>1.0185</b> | <b>2.5602</b> | <b>0.2164</b>  | <b>0.9371</b> | <b>1.1535</b> |          | <b>3,481.6315</b> | <b>3,481.6315</b> | <b>1.1260</b> |     | <b>3,509.7823</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.2 Site Restoration - 2020**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.6938        | 0.0000        | 0.6938        | 0.0974         | 0.0000        | 0.0974        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1962        | 23.1379        | 14.4566        | 0.0360        |               | 1.0185        | 1.0185        |                | 0.9371        | 0.9371        | 0.0000        | 3,481.6315        | 3,481.6315        | 1.1260        |     | 3,509.7823        |
| <b>Total</b>  | <b>2.1962</b> | <b>23.1379</b> | <b>14.4566</b> | <b>0.0360</b> | <b>0.6938</b> | <b>1.0185</b> | <b>1.7123</b> | <b>0.0974</b>  | <b>0.9371</b> | <b>1.0344</b> | <b>0.0000</b> | <b>3,481.6315</b> | <b>3,481.6315</b> | <b>1.1260</b> |     | <b>3,509.7823</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.5417        | 0.0000        | 1.5417        | 0.2164         | 0.0000        | 0.2164        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.0182        | 20.5525        | 14.0778        | 0.0360        |               | 0.8887        | 0.8887        |                | 0.8176        | 0.8176        |          | 3,481.5668        | 3,481.5668        | 1.1260        |     | 3,509.7170        |
| <b>Total</b>  | <b>2.0182</b> | <b>20.5525</b> | <b>14.0778</b> | <b>0.0360</b> | <b>1.5417</b> | <b>0.8887</b> | <b>2.4304</b> | <b>0.2164</b>  | <b>0.8176</b> | <b>1.0340</b> |          | <b>3,481.5668</b> | <b>3,481.5668</b> | <b>1.1260</b> |     | <b>3,509.7170</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.6938        | 0.0000        | 0.6938        | 0.0974         | 0.0000        | 0.0974        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.0182        | 20.5525        | 14.0778        | 0.0360        |               | 0.8887        | 0.8887        |                | 0.8176        | 0.8176        | 0.0000        | 3,481.5668        | 3,481.5668        | 1.1260        |     | 3,509.7170        |
| <b>Total</b>  | <b>2.0182</b> | <b>20.5525</b> | <b>14.0778</b> | <b>0.0360</b> | <b>0.6938</b> | <b>0.8887</b> | <b>1.5825</b> | <b>0.0974</b>  | <b>0.8176</b> | <b>0.9150</b> | <b>0.0000</b> | <b>3,481.5668</b> | <b>3,481.5668</b> | <b>1.1260</b> |     | <b>3,509.7170</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.0970        | 80.8737        | 17.2972        | 0.2071        | 6.3596        | 0.2606        | 6.6202        | 1.6822         | 0.2493        | 1.9315        |          | 22,178.0632        | 22,178.0632        | 1.3787        |     | 22,212.5317        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.4291        | 0.2454         | 3.5118         | 8.8500e-003   | 0.8517        | 5.7200e-003   | 0.8574        | 0.2259         | 5.2700e-003   | 0.2311        |          | 881.2439           | 881.2439           | 0.0247        |     | 881.8616           |
| <b>Total</b> | <b>2.5261</b> | <b>81.1191</b> | <b>20.8090</b> | <b>0.2160</b> | <b>7.2113</b> | <b>0.2663</b> | <b>7.4776</b> | <b>1.9081</b>  | <b>0.2546</b> | <b>2.1627</b> |          | <b>23,059.3070</b> | <b>23,059.3070</b> | <b>1.4035</b> |     | <b>23,094.3933</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.0970        | 80.8737        | 17.2972        | 0.2071        | 5.8801        | 0.2606        | 6.1407        | 1.5645         | 0.2493        | 1.8138        |          | 22,178.0632        | 22,178.0632        | 1.3787        |     | 22,212.5317        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.4291        | 0.2454         | 3.5118         | 8.8500e-003   | 0.7850        | 5.7200e-003   | 0.7908        | 0.2095         | 5.2700e-003   | 0.2148        |          | 881.2439           | 881.2439           | 0.0247        |     | 881.8616           |
| <b>Total</b> | <b>2.5261</b> | <b>81.1191</b> | <b>20.8090</b> | <b>0.2160</b> | <b>6.6651</b> | <b>0.2663</b> | <b>6.9314</b> | <b>1.7740</b>  | <b>0.2546</b> | <b>2.0286</b> |          | <b>23,059.3070</b> | <b>23,059.3070</b> | <b>1.4035</b> |     | <b>23,094.3933</b> |

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**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.9376        | 75.0269        | 15.9071        | 0.2046        | 9.4033         | 0.2293        | 9.6326         | 2.4292         | 0.2193        | 2.6485        |          | 21,928.6197        | 21,928.6197        | 1.3511        |     | 21,962.3964        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3992        | 0.2202         | 3.2200         | 8.5500e-003   | 0.8517         | 5.5500e-003   | 0.8572         | 0.2259         | 5.1100e-003   | 0.2310        |          | 851.1935           | 851.1935           | 0.0222        |     | 851.7480           |
| <b>Total</b> | <b>2.3367</b> | <b>75.2471</b> | <b>19.1271</b> | <b>0.2132</b> | <b>10.2550</b> | <b>0.2348</b> | <b>10.4898</b> | <b>2.6551</b>  | <b>0.2244</b> | <b>2.8795</b> |          | <b>22,779.8132</b> | <b>22,779.8132</b> | <b>1.3733</b> |     | <b>22,814.1444</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.9376        | 75.0269        | 15.9071        | 0.2046        | 8.6497        | 0.2293        | 8.8790        | 2.2442         | 0.2193        | 2.4635        |          | 21,928.6197        | 21,928.6197        | 1.3511        |     | 21,962.3964        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3992        | 0.2202         | 3.2200         | 8.5500e-003   | 0.7850        | 5.5500e-003   | 0.7906        | 0.2095         | 5.1100e-003   | 0.2146        |          | 851.1935           | 851.1935           | 0.0222        |     | 851.7480           |
| <b>Total</b> | <b>2.3367</b> | <b>75.2471</b> | <b>19.1271</b> | <b>0.2132</b> | <b>9.4348</b> | <b>0.2348</b> | <b>9.6696</b> | <b>2.4537</b>  | <b>0.2244</b> | <b>2.6782</b> |          | <b>22,779.8132</b> | <b>22,779.8132</b> | <b>1.3733</b> |     | <b>22,814.1444</b> |

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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 2.6798 | 8.7956 | 28.3650 | 0.0829 | 6.6902        | 0.0685       | 6.7588     | 1.7888         | 0.0642        | 1.8530      |          | 8,390.1500 | 8,390.1500 | 0.3920 |     | 8,399.9495 |
| Unmitigated | 2.6798 | 8.7956 | 28.3650 | 0.0829 | 6.6902        | 0.0685       | 6.7588     | 1.7888         | 0.0642        | 1.8530      |          | 8,390.1500 | 8,390.1500 | 0.3920 |     | 8,399.9495 |

**4.2 Trip Summary Information**

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,180.48                | 1,228.84 | 1068.88  | 3,006,057   | 3,006,057  |
| Total                 | 1,180.48                | 1,228.84 | 1,068.88 | 3,006,057   | 3,006,057  |

**4.3 Trip Type Information**

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.00      | 5.00       | 6.50        | 46.50      | 12.50      | 41.00       | 86             | 11       | 3       |

**4.4 Fleet Mix**



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| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.555851 | 0.039752 | 0.205040 | 0.120748 | 0.020349 | 0.005402 | 0.018507 | 0.022668 | 0.002052 | 0.002157 | 0.005939 | 0.000618 | 0.000915 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.0947 | 0.8088 | 0.3442 | 5.1600e-003 |               | 0.0654       | 0.0654     |                | 0.0654        | 0.0654      |          | 1,032.5549 | 1,032.5549 | 0.0198 | 0.0189 | 1,038.6909 |
| NaturalGas Unmitigated | 0.0947 | 0.8088 | 0.3442 | 5.1600e-003 |               | 0.0654       | 0.0654     |                | 0.0654        | 0.0654      |          | 1,032.5549 | 1,032.5549 | 0.0198 | 0.0189 | 1,038.6909 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 8776.72        | 0.0947        | 0.8088        | 0.3442        | 5.1600e-003        |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |          | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| <b>Total</b>          |                | <b>0.0947</b> | <b>0.8088</b> | <b>0.3442</b> | <b>5.1600e-003</b> |               | <b>0.0654</b> | <b>0.0654</b> |                | <b>0.0654</b> | <b>0.0654</b> |          | <b>1,032.5549</b> | <b>1,032.5549</b> | <b>0.0198</b> | <b>0.0189</b> | <b>1,038.6909</b> |

**Mitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 8.77672        | 0.0947        | 0.8088        | 0.3442        | 5.1600e-003        |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |          | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| <b>Total</b>          |                | <b>0.0947</b> | <b>0.8088</b> | <b>0.3442</b> | <b>5.1600e-003</b> |               | <b>0.0654</b> | <b>0.0654</b> |                | <b>0.0654</b> | <b>0.0654</b> |          | <b>1,032.5549</b> | <b>1,032.5549</b> | <b>0.0198</b> | <b>0.0189</b> | <b>1,038.6909</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

|             | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category    | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |           |           |        |        |         |
| Mitigated   | 5.7536 | 0.1184 | 10.2524 | 5.4000e-004 |               | 0.0565       | 0.0565     |                | 0.0565        | 0.0565      | 0.0000   | 18.4205   | 18.4205   | 0.0179 | 0.0000 | 18.8668 |
| Unmitigated | 5.7536 | 0.1184 | 10.2524 | 5.4000e-004 |               | 0.0565       | 0.0565     |                | 0.0565        | 0.0565      | 0.0000   | 18.4205   | 18.4205   | 0.0179 | 0.0000 | 18.8668 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO             | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | lb/day        |               |                |                    |               |               |               |                |               |               | lb/day        |                |                |               |               |                |
| Architectural Coating | 0.6665        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Consumer Products     | 4.7765        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000         | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.3106        | 0.1184        | 10.2524        | 5.4000e-004        |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        |               | 18.4205        | 18.4205        | 0.0179        |               | 18.8668        |
| <b>Total</b>          | <b>5.7536</b> | <b>0.1184</b> | <b>10.2524</b> | <b>5.4000e-004</b> |               | <b>0.0565</b> | <b>0.0565</b> |                | <b>0.0565</b> | <b>0.0565</b> | <b>0.0000</b> | <b>18.4205</b> | <b>18.4205</b> | <b>0.0179</b> | <b>0.0000</b> | <b>18.8668</b> |

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx           | CO             | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | lb/day        |               |                |                    |               |               |               |                |               |               | lb/day        |                |                |               |               |                |
| Architectural Coating | 0.6665        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Consumer Products     | 4.7765        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000         | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.3106        | 0.1184        | 10.2524        | 5.4000e-004        |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        |               | 18.4205        | 18.4205        | 0.0179        |               | 18.8668        |
| <b>Total</b>          | <b>5.7536</b> | <b>0.1184</b> | <b>10.2524</b> | <b>5.4000e-004</b> |               | <b>0.0565</b> | <b>0.0565</b> |                | <b>0.0565</b> | <b>0.0565</b> | <b>0.0000</b> | <b>18.4205</b> | <b>18.4205</b> | <b>0.0179</b> | <b>0.0000</b> | <b>18.8668</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**10.0 Stationary Equipment**

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Summer

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

**WSAFCA Southport Levee Improvement Project**  
**Sacramento Metropolitan AQMD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses             | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 124.00 | Dwelling Unit | 40.26       | 223,200.00         | 331        |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 3.5 | <b>Precipitation Freq (Days)</b> | 58   |
| <b>Climate Zone</b>             | 6     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

Project Characteristics - This file reflects responses to comments from the SMAQMD. Changes made 11-8-19.

Land Use - Assuming 124 units of single houses nearby to account for the borrow site size of 40 acres

Construction Phase - changed project year to 2020

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate the 10 hours per day.

Trips and VMT - No truck trips for site restoration

Grading - SRWTP Borrow Site. 11-8-19 "Material Imported" changed to 600,000.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Water exposed areas 2 times a day.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblAreaCoating          | Area_Residential_Exterior      | 150660        | 131220    |
| tblAreaCoating          | Area_Residential_Interior      | 451980        | 393660    |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

|                         |                            |        |            |
|-------------------------|----------------------------|--------|------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00   | 1.00       |
| tblConstructionPhase    | NumDays                    | 740.00 | 108.00     |
| tblConstructionPhase    | NumDays                    | 75.00  | 108.00     |
| tblFireplaces           | NumberNoFireplace          | 124.00 | 108.00     |
| tblGrading              | AcresOfGrading             | 67.50  | 40.00      |
| tblGrading              | MaterialImported           | 0.00   | 600,000.00 |
| tblOffRoadEquipment     | HorsePower                 | 187.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 247.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 367.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 231.00 | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 89.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 84.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 97.00  | 0.00       |
| tblOffRoadEquipment     | HorsePower                 | 46.00  | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.41   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.40   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.48   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.29   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.20   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.74   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.37   | 0.00       |
| tblOffRoadEquipment     | LoadFactor                 | 0.45   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 1.00   | 0.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 2.00   | 1.00       |
| tblOffRoadEquipment     | OffRoadEquipmentUnitAmount | 3.00   | 0.00       |



## WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

|                     |                            |           |           |
|---------------------|----------------------------|-----------|-----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00      | 0.00      |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 10.00     |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 7.00      | 0.00      |
| tblOffRoadEquipment | UsageHours                 | 8.00      | 0.00      |
| tblRoadDust         | CARB_PM_VMT                | True      | False     |
| tblSolidWaste       | SolidWasteGenerationRate   | 119.16    | 103.68    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 0.00      |
| tblTripsAndVMT      | HaulingTripLength          | 20.00     | 13.30     |
| tblTripsAndVMT      | HaulingTripNumber          | 75,000.00 | 0.00      |
| tblTripsAndVMT      | HaulingTripNumber          | 0.00      | 40,000.00 |
| tblTripsAndVMT      | VendorTripLength           | 6.50      | 0.00      |
| tblTripsAndVMT      | VendorTripNumber           | 13.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 0.00      |
| tblTripsAndVMT      | WorkerTripLength           | 10.00     | 14.00     |

## WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

|                |                     |              |              |
|----------------|---------------------|--------------|--------------|
| tblTripsAndVMT | WorkerTripNumber    | 10.00        | 0.00         |
| tblTripsAndVMT | WorkerTripNumber    | 45.00        | 80.00        |
| tblWater       | IndoorWaterUseRate  | 8,079,099.18 | 7,036,634.77 |
| tblWater       | OutdoorWaterUseRate | 5,093,345.13 | 4,436,139.31 |

## 2.0 Emissions Summary

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WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 5.7536        | 0.1184         | 10.2524        | 5.4000e-004   |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        | 0.0000        | 18.4205           | 18.4205           | 0.0179        | 0.0000        | 18.8668           |
| Energy       | 0.0947        | 0.8088         | 0.3442         | 5.1600e-003   |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |               | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| Mobile       | 2.0207        | 9.4534         | 26.1727        | 0.0748        | 6.6902        | 0.0695        | 6.7597        | 1.7888         | 0.0651        | 1.8539        |               | 7,577.6751        | 7,577.6751        | 0.3874        |               | 7,587.3599        |
| <b>Total</b> | <b>7.8690</b> | <b>10.3806</b> | <b>36.7693</b> | <b>0.0805</b> | <b>6.6902</b> | <b>0.1914</b> | <b>6.8816</b> | <b>1.7888</b>  | <b>0.1870</b> | <b>1.9758</b> | <b>0.0000</b> | <b>8,628.6505</b> | <b>8,628.6505</b> | <b>0.4250</b> | <b>0.0189</b> | <b>8,644.9175</b> |

**Mitigated Operational**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Area         | 5.7536        | 0.1184         | 10.2524        | 5.4000e-004   |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        | 0.0000        | 18.4205           | 18.4205           | 0.0179        | 0.0000        | 18.8668           |
| Energy       | 0.0947        | 0.8088         | 0.3442         | 5.1600e-003   |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |               | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| Mobile       | 2.0207        | 9.4534         | 26.1727        | 0.0748        | 6.6902        | 0.0695        | 6.7597        | 1.7888         | 0.0651        | 1.8539        |               | 7,577.6751        | 7,577.6751        | 0.3874        |               | 7,587.3599        |
| <b>Total</b> | <b>7.8690</b> | <b>10.3806</b> | <b>36.7693</b> | <b>0.0805</b> | <b>6.6902</b> | <b>0.1914</b> | <b>6.8816</b> | <b>1.7888</b>  | <b>0.1870</b> | <b>1.9758</b> | <b>0.0000</b> | <b>8,628.6505</b> | <b>8,628.6505</b> | <b>0.4250</b> | <b>0.0189</b> | <b>8,644.9175</b> |

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |
| 2            | Fill Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 5             | 108      |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Crawler Tractors          | 1      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 1      | 10.00       | 158         | 0.38        |
| Site Restoration      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Scrapers                  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Generator Sets            | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Welders                   | 0      | 0.00        | 0           | 0.00        |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 4                       | 0.00               | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 13.30               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

WSAFCA Southport Levee Improvement Project - Sacramento Metropolitan AQMD Air District, Winter

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.5417        | 0.0000        | 1.5417        | 0.2164         | 0.0000        | 0.2164        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1962        | 23.1379        | 14.4566        | 0.0360        |               | 1.0185        | 1.0185        |                | 0.9371        | 0.9371        |          | 3,481.6315        | 3,481.6315        | 1.1260        |     | 3,509.7823        |
| <b>Total</b>  | <b>2.1962</b> | <b>23.1379</b> | <b>14.4566</b> | <b>0.0360</b> | <b>1.5417</b> | <b>1.0185</b> | <b>2.5602</b> | <b>0.2164</b>  | <b>0.9371</b> | <b>1.1535</b> |          | <b>3,481.6315</b> | <b>3,481.6315</b> | <b>1.1260</b> |     | <b>3,509.7823</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.2 Site Restoration - 2020**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.6938        | 0.0000        | 0.6938        | 0.0974         | 0.0000        | 0.0974        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1962        | 23.1379        | 14.4566        | 0.0360        |               | 1.0185        | 1.0185        |                | 0.9371        | 0.9371        | 0.0000        | 3,481.6315        | 3,481.6315        | 1.1260        |     | 3,509.7823        |
| <b>Total</b>  | <b>2.1962</b> | <b>23.1379</b> | <b>14.4566</b> | <b>0.0360</b> | <b>0.6938</b> | <b>1.0185</b> | <b>1.7123</b> | <b>0.0974</b>  | <b>0.9371</b> | <b>1.0344</b> | <b>0.0000</b> | <b>3,481.6315</b> | <b>3,481.6315</b> | <b>1.1260</b> |     | <b>3,509.7823</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |



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**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.5417        | 0.0000        | 1.5417        | 0.2164         | 0.0000        | 0.2164        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.0182        | 20.5525        | 14.0778        | 0.0360        |               | 0.8887        | 0.8887        |                | 0.8176        | 0.8176        |          | 3,481.5668        | 3,481.5668        | 1.1260        |     | 3,509.7170        |
| <b>Total</b>  | <b>2.0182</b> | <b>20.5525</b> | <b>14.0778</b> | <b>0.0360</b> | <b>1.5417</b> | <b>0.8887</b> | <b>2.4304</b> | <b>0.2164</b>  | <b>0.8176</b> | <b>1.0340</b> |          | <b>3,481.5668</b> | <b>3,481.5668</b> | <b>1.1260</b> |     | <b>3,509.7170</b> |

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.6938        | 0.0000        | 0.6938        | 0.0974         | 0.0000        | 0.0974        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.0182        | 20.5525        | 14.0778        | 0.0360        |               | 0.8887        | 0.8887        |                | 0.8176        | 0.8176        | 0.0000        | 3,481.5668        | 3,481.5668        | 1.1260        |     | 3,509.7170        |
| <b>Total</b>  | <b>2.0182</b> | <b>20.5525</b> | <b>14.0778</b> | <b>0.0360</b> | <b>0.6938</b> | <b>0.8887</b> | <b>1.5825</b> | <b>0.0974</b>  | <b>0.8176</b> | <b>0.9150</b> | <b>0.0000</b> | <b>3,481.5668</b> | <b>3,481.5668</b> | <b>1.1260</b> |     | <b>3,509.7170</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

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**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.1884        | 83.1679        | 19.0852        | 0.2026        | 6.3596        | 0.2731        | 6.6327        | 1.6822         | 0.2613        | 1.9435        |          | 21,695.1672        | 21,695.1672        | 1.4621        |     | 21,731.7184        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.4136        | 0.3034         | 2.9160         | 7.7700e-003   | 0.8517        | 5.7200e-003   | 0.8574        | 0.2259         | 5.2700e-003   | 0.2311        |          | 773.3306           | 773.3306           | 0.0214        |     | 773.8649           |
| <b>Total</b> | <b>2.6020</b> | <b>83.4713</b> | <b>22.0012</b> | <b>0.2104</b> | <b>7.2113</b> | <b>0.2788</b> | <b>7.4901</b> | <b>1.9081</b>  | <b>0.2665</b> | <b>2.1746</b> |          | <b>22,468.4978</b> | <b>22,468.4978</b> | <b>1.4834</b> |     | <b>22,505.5833</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.1884        | 83.1679        | 19.0852        | 0.2026        | 5.8801        | 0.2731        | 6.1532        | 1.5645         | 0.2613        | 1.8258        |          | 21,695.1672        | 21,695.1672        | 1.4621        |     | 21,731.7184        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.4136        | 0.3034         | 2.9160         | 7.7700e-003   | 0.7850        | 5.7200e-003   | 0.7908        | 0.2095         | 5.2700e-003   | 0.2148        |          | 773.3306           | 773.3306           | 0.0214        |     | 773.8649           |
| <b>Total</b> | <b>2.6020</b> | <b>83.4713</b> | <b>22.0012</b> | <b>0.2104</b> | <b>6.6651</b> | <b>0.2788</b> | <b>6.9439</b> | <b>1.7740</b>  | <b>0.2665</b> | <b>2.0406</b> |          | <b>22,468.4978</b> | <b>22,468.4978</b> | <b>1.4834</b> |     | <b>22,505.5833</b> |

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**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.0191        | 76.9794        | 17.5562        | 0.2001        | 9.4033         | 0.2407        | 9.6441         | 2.4292         | 0.2303        | 2.6595        |          | 21,447.0179        | 21,447.0179        | 1.4313        |     | 21,482.8008        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3853        | 0.2721         | 2.6644         | 7.5000e-003   | 0.8517         | 5.5500e-003   | 0.8572         | 0.2259         | 5.1100e-003   | 0.2310        |          | 746.9766           | 746.9766           | 0.0192        |     | 747.4553           |
| <b>Total</b> | <b>2.4045</b> | <b>77.2515</b> | <b>20.2206</b> | <b>0.2076</b> | <b>10.2550</b> | <b>0.2463</b> | <b>10.5013</b> | <b>2.6551</b>  | <b>0.2354</b> | <b>2.8905</b> |          | <b>22,193.9945</b> | <b>22,193.9945</b> | <b>1.4505</b> |     | <b>22,230.2562</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 2.0191        | 76.9794        | 17.5562        | 0.2001        | 8.6497        | 0.2407        | 8.8905        | 2.2442         | 0.2303        | 2.4745        |          | 21,447.0179        | 21,447.0179        | 1.4313        |     | 21,482.8008        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3853        | 0.2721         | 2.6644         | 7.5000e-003   | 0.7850        | 5.5500e-003   | 0.7906        | 0.2095         | 5.1100e-003   | 0.2146        |          | 746.9766           | 746.9766           | 0.0192        |     | 747.4553           |
| <b>Total</b> | <b>2.4045</b> | <b>77.2515</b> | <b>20.2206</b> | <b>0.2076</b> | <b>9.4348</b> | <b>0.2463</b> | <b>9.6810</b> | <b>2.4537</b>  | <b>0.2354</b> | <b>2.6891</b> |          | <b>22,193.9945</b> | <b>22,193.9945</b> | <b>1.4505</b> |     | <b>22,230.2562</b> |

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**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2      | Total CO2      | CH4    | N2O | CO2e           |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|-----|----------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |                |                |        |     |                |
| Mitigated   | 2.0207 | 9.4534 | 26.1727 | 0.0748 | 6.6902        | 0.0695       | 6.7597     | 1.7888         | 0.0651        | 1.8539      |          | 7,577.675<br>1 | 7,577.675<br>1 | 0.3874 |     | 7,587.359<br>9 |
| Unmitigated | 2.0207 | 9.4534 | 26.1727 | 0.0748 | 6.6902        | 0.0695       | 6.7597     | 1.7888         | 0.0651        | 1.8539      |          | 7,577.675<br>1 | 7,577.675<br>1 | 0.3874 |     | 7,587.359<br>9 |

**4.2 Trip Summary Information**

| Land Use              | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-----------------------|-------------------------|----------|----------|-------------|------------|
|                       | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Single Family Housing | 1,180.48                | 1,228.84 | 1068.88  | 3,006,057   | 3,006,057  |
| Total                 | 1,180.48                | 1,228.84 | 1,068.88 | 3,006,057   | 3,006,057  |

**4.3 Trip Type Information**

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Single Family Housing | 10.00      | 5.00       | 6.50        | 46.50      | 12.50      | 41.00       | 86             | 11       | 3       |

**4.4 Fleet Mix**

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| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.555851 | 0.039752 | 0.205040 | 0.120748 | 0.020349 | 0.005402 | 0.018507 | 0.022668 | 0.002052 | 0.002157 | 0.005939 | 0.000618 | 0.000915 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.0947 | 0.8088 | 0.3442 | 5.1600e-003 |               | 0.0654       | 0.0654     |                | 0.0654        | 0.0654      |          | 1,032.5549 | 1,032.5549 | 0.0198 | 0.0189 | 1,038.6909 |
| NaturalGas Unmitigated | 0.0947 | 0.8088 | 0.3442 | 5.1600e-003 |               | 0.0654       | 0.0654     |                | 0.0654        | 0.0654      |          | 1,032.5549 | 1,032.5549 | 0.0198 | 0.0189 | 1,038.6909 |

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 8776.72        | 0.0947        | 0.8088        | 0.3442        | 5.1600e-003        |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |          | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| <b>Total</b>          |                | <b>0.0947</b> | <b>0.8088</b> | <b>0.3442</b> | <b>5.1600e-003</b> |               | <b>0.0654</b> | <b>0.0654</b> |                | <b>0.0654</b> | <b>0.0654</b> |          | <b>1,032.5549</b> | <b>1,032.5549</b> | <b>0.0198</b> | <b>0.0189</b> | <b>1,038.6909</b> |

**Mitigated**

|                       | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Single Family Housing | 8.77672        | 0.0947        | 0.8088        | 0.3442        | 5.1600e-003        |               | 0.0654        | 0.0654        |                | 0.0654        | 0.0654        |          | 1,032.5549        | 1,032.5549        | 0.0198        | 0.0189        | 1,038.6909        |
| <b>Total</b>          |                | <b>0.0947</b> | <b>0.8088</b> | <b>0.3442</b> | <b>5.1600e-003</b> |               | <b>0.0654</b> | <b>0.0654</b> |                | <b>0.0654</b> | <b>0.0654</b> |          | <b>1,032.5549</b> | <b>1,032.5549</b> | <b>0.0198</b> | <b>0.0189</b> | <b>1,038.6909</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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|             | ROG    | NOx    | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|--------|--------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category    | lb/day |        |         |             |               |              |            |                |               |             | lb/day   |           |           |        |        |         |
| Mitigated   | 5.7536 | 0.1184 | 10.2524 | 5.4000e-004 |               | 0.0565       | 0.0565     |                | 0.0565        | 0.0565      | 0.0000   | 18.4205   | 18.4205   | 0.0179 | 0.0000 | 18.8668 |
| Unmitigated | 5.7536 | 0.1184 | 10.2524 | 5.4000e-004 |               | 0.0565       | 0.0565     |                | 0.0565        | 0.0565      | 0.0000   | 18.4205   | 18.4205   | 0.0179 | 0.0000 | 18.8668 |

6.2 Area by SubCategory

Unmitigated

|                       | ROG           | NOx           | CO             | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | lb/day        |               |                |                    |               |               |               |                |               |               | lb/day        |                |                |               |               |                |
| Architectural Coating | 0.6665        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Consumer Products     | 4.7765        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000         | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.3106        | 0.1184        | 10.2524        | 5.4000e-004        |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        |               | 18.4205        | 18.4205        | 0.0179        |               | 18.8668        |
| <b>Total</b>          | <b>5.7536</b> | <b>0.1184</b> | <b>10.2524</b> | <b>5.4000e-004</b> |               | <b>0.0565</b> | <b>0.0565</b> |                | <b>0.0565</b> | <b>0.0565</b> | <b>0.0000</b> | <b>18.4205</b> | <b>18.4205</b> | <b>0.0179</b> | <b>0.0000</b> | <b>18.8668</b> |



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**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx           | CO             | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|----------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | lb/day        |               |                |                    |               |               |               |                |               |               | lb/day        |                |                |               |               |                |
| Architectural Coating | 0.6665        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Consumer Products     | 4.7765        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                | 0.0000         |               |               | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000         | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.3106        | 0.1184        | 10.2524        | 5.4000e-004        |               | 0.0565        | 0.0565        |                | 0.0565        | 0.0565        |               | 18.4205        | 18.4205        | 0.0179        |               | 18.8668        |
| <b>Total</b>          | <b>5.7536</b> | <b>0.1184</b> | <b>10.2524</b> | <b>5.4000e-004</b> |               | <b>0.0565</b> | <b>0.0565</b> |                | <b>0.0565</b> | <b>0.0565</b> | <b>0.0000</b> | <b>18.4205</b> | <b>18.4205</b> | <b>0.0179</b> | <b>0.0000</b> | <b>18.8668</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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**WSAFCA Southport Levee Improvement Project**  
**Yolo/Solano AQMD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
|           | 0.00 |        | 0.00        | 0.00               | 0          |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 6.8 | <b>Precipitation Freq (Days)</b> | 55   |
| <b>Climate Zone</b>             | 2     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - This file reflects responses to comments frm the SMAQMD. Changes made 11-19-19.

Land Use -

Construction Phase - per 8/4/19 8:35 p.m. Email message.

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate 10 hours per day.

Trips and VMT - No truck trips for site restoration, change workers to 80. Hauling trips set to 40,000 11-19-19.

On-road Fugitive Dust - 100% paving

Grading - Grading at Area's: A1, A3, A4, and RP2. "Material Imported" amount corrected 11-19-19.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Area Coating -

Landscape Equipment -

Construction Off-road Equipment Mitigation - Water exposed area's 2 times a day. Change vehicle speed to 15 mph. Engine Tier & Oxidation Catalyst corrected 11-19-19.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name             | Column Name                               | Default Value | New Value |
|------------------------|---|---------------|-----------|
| tblAreaMitigation      | UseLowVOCPaintNonresidentialExteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintNonresidentialInteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintParkingValue                | 150           | 100       |
| tblConstDustMitigation | CleanPavedRoadPercentReduction            | 0             | 9         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent           | 0             | 0.5       |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed              | 0             | 15        |

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|                         |                            |             |             |
|-------------------------|----------------------------|-------------|-------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 2.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblFleetMix             | HHD                        | 0.05        | 0.05        |
| tblFleetMix             | LDA                        | 0.52        | 0.52        |
| tblFleetMix             | LDT1                       | 0.04        | 0.04        |
| tblFleetMix             | LDT2                       | 0.19        | 0.19        |
| tblFleetMix             | LHD1                       | 0.02        | 0.02        |
| tblFleetMix             | LHD2                       | 5.6350e-003 | 5.8400e-003 |
| tblFleetMix             | MCY                        | 7.1040e-003 | 7.3350e-003 |
| tblFleetMix             | MDV                        | 0.12        | 0.12        |
| tblFleetMix             | MH                         | 9.8700e-004 | 1.0520e-003 |
| tblFleetMix             | MHD                        | 0.03        | 0.03        |
| tblFleetMix             | OBUS                       | 1.3360e-003 | 1.3420e-003 |
| tblFleetMix             | SBUS                       | 6.9100e-004 | 6.9400e-004 |
| tblFleetMix             | UBUS                       | 2.0700e-003 | 2.1510e-003 |
| tblGrading              | AcresOfGrading             | 243.75      | 87.60       |
| tblGrading              | MaterialImported           | 0.00        | 600,000.00  |
| tblOffRoadEquipment     | HorsePower                 | 81.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 231.00      | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 89.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 247.00      | 0.00        |

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|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 158.00 | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.73   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.29   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.20   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.40   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.38   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 4.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 1.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | WorkerPercentPave          | 94.00  | 100.00 |

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|                |                   |             |             |
|----------------|-------------------|-------------|-------------|
| tblOnRoadDust  | WorkerPercentPave | 94.00       | 100.00      |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 0.00        |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 6.20        |
| tblTripsAndVMT | HaulingTripNumber | 75,000.00   | 0.00        |
| tblTripsAndVMT | HaulingTripNumber | 0.00        | 40,000.00   |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 0.00        |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 6.50        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 0.00        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 14.00       |
| tblTripsAndVMT | WorkerTripNumber  | 0.00        | 80.00       |
| tblVehicleEF   | HHD               | 1.26        | 1.27        |
| tblVehicleEF   | HHD               | 8.3200e-003 | 9.0630e-003 |
| tblVehicleEF   | HHD               | 0.12        | 0.15        |
| tblVehicleEF   | HHD               | 3.33        | 3.51        |
| tblVehicleEF   | HHD               | 0.69        | 0.72        |
| tblVehicleEF   | HHD               | 1.75        | 2.08        |
| tblVehicleEF   | HHD               | 6,182.38    | 6,249.03    |
| tblVehicleEF   | HHD               | 1,604.14    | 1,623.71    |
| tblVehicleEF   | HHD               | 4.76        | 5.39        |
| tblVehicleEF   | HHD               | 25.54       | 27.06       |
| tblVehicleEF   | HHD               | 3.32        | 3.75        |
| tblVehicleEF   | HHD               | 20.31       | 20.29       |
| tblVehicleEF   | HHD               | 0.03        | 0.04        |
| tblVehicleEF   | HHD               | 0.06        | 0.06        |
| tblVehicleEF   | HHD               | 0.04        | 0.04        |
| tblVehicleEF   | HHD               | 0.02        | 0.02        |
| tblVehicleEF   | HHD               | 5.3000e-005 | 1.0300e-004 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.03        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 0.90        | 0.95        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.7000e-005 | 8.9000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 1.02        | 1.08        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 1.19        | 1.20        |
| tblVehicleEF | HHD | 8.3500e-003 | 9.0970e-003 |
| tblVehicleEF | HHD | 0.11        | 0.14        |
| tblVehicleEF | HHD | 2.43        | 2.57        |
| tblVehicleEF | HHD | 0.69        | 0.72        |



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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.61        | 1.93        |
| tblVehicleEF | HHD | 6,546.79    | 6,615.68    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 26.36       | 27.91       |
| tblVehicleEF | HHD | 3.13        | 3.53        |
| tblVehicleEF | HHD | 20.30       | 20.28       |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.85        | 0.89        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.4000e-005 | 8.6000e-005 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 1.36        | 1.37        |
| tblVehicleEF | HHD | 8.2870e-003 | 9.0260e-003 |
| tblVehicleEF | HHD | 0.13        | 0.17        |
| tblVehicleEF | HHD | 4.58        | 4.82        |
| tblVehicleEF | HHD | 0.68        | 0.71        |
| tblVehicleEF | HHD | 1.98        | 2.35        |
| tblVehicleEF | HHD | 5,679.15    | 5,742.69    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 24.42       | 25.87       |
| tblVehicleEF | HHD | 3.39        | 3.83        |
| tblVehicleEF | HHD | 20.32       | 20.30       |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 0.05        | 0.05        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 8.0000e-005 | 9.3000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 1.10        | 1.16        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.09        |
| tblVehicleEF | LDA | 4.6710e-003 | 5.1960e-003 |
| tblVehicleEF | LDA | 6.3160e-003 | 7.2910e-003 |
| tblVehicleEF | LDA | 0.58        | 0.63        |
| tblVehicleEF | LDA | 1.33        | 1.48        |
| tblVehicleEF | LDA | 273.66      | 284.76      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.06        |
| tblVehicleEF | LDA | 0.08        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.01        | 0.01        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.10        |
| tblVehicleEF | LDA | 2.7400e-003 | 2.8510e-003 |
| tblVehicleEF | LDA | 6.1500e-004 | 6.3900e-004 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 5.3900e-003 | 5.9980e-003 |
| tblVehicleEF | LDA | 5.1510e-003 | 5.9470e-003 |
| tblVehicleEF | LDA | 0.73        | 0.79        |
| tblVehicleEF | LDA | 1.07        | 1.20        |
| tblVehicleEF | LDA | 301.40      | 313.66      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.05        | 0.06        |
| tblVehicleEF | LDA | 0.07        | 0.09        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.01        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.07        | 0.08        |
| tblVehicleEF | LDA | 3.0190e-003 | 3.1420e-003 |
| tblVehicleEF | LDA | 6.1100e-004 | 6.3400e-004 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.08        | 0.09        |
| tblVehicleEF | LDA | 4.4570e-003 | 4.9650e-003 |
| tblVehicleEF | LDA | 7.6410e-003 | 8.8260e-003 |
| tblVehicleEF | LDA | 0.56        | 0.60        |
| tblVehicleEF | LDA | 1.67        | 1.87        |
| tblVehicleEF | LDA | 266.60      | 277.40      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.07        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDA  | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA  | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.10        | 0.12        |
| tblVehicleEF | LDA  | 2.6690e-003 | 2.7780e-003 |
| tblVehicleEF | LDA  | 6.2100e-004 | 6.4600e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.11        | 0.13        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.24        | 1.38        |
| tblVehicleEF | LDT1 | 3.64        | 4.05        |
| tblVehicleEF | LDT1 | 332.25      | 342.70      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.13        | 0.15        |
| tblVehicleEF | LDT1 | 0.20        | 0.23        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.25        | 0.28        |
| tblVehicleEF | LDT1 | 3.3370e-003 | 3.4430e-003 |
| tblVehicleEF | LDT1 | 7.9700e-004 | 8.2100e-004 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.28        | 0.31        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.52        | 1.68        |
| tblVehicleEF | LDT1 | 2.93        | 3.25        |
| tblVehicleEF | LDT1 | 364.69      | 376.09      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.12        | 0.13        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.21        | 0.23        |
| tblVehicleEF | LDT1 | 3.6650e-003 | 3.7820e-003 |
| tblVehicleEF | LDT1 | 7.8400e-004 | 8.0700e-004 |
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.04        | 0.05        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.22        | 0.25        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 1.21        | 1.34        |
| tblVehicleEF | LDT1 | 4.62        | 5.15        |
| tblVehicleEF | LDT1 | 323.92      | 334.13      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.15        | 0.17        |
| tblVehicleEF | LDT1 | 0.23        | 0.26        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.31        | 0.35        |
| tblVehicleEF | LDT1 | 3.2530e-003 | 3.3570e-003 |
| tblVehicleEF | LDT1 | 8.1400e-004 | 8.4000e-004 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.34        | 0.38        |
| tblVehicleEF | LDT2 | 6.0170e-003 | 6.5820e-003 |
| tblVehicleEF | LDT2 | 8.9770e-003 | 0.01        |
| tblVehicleEF | LDT2 | 0.73        | 0.79        |
| tblVehicleEF | LDT2 | 1.86        | 2.07        |
| tblVehicleEF | LDT2 | 375.31      | 388.22      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.18        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.12        | 0.14        |
| tblVehicleEF | LDT2 | 3.7580e-003 | 3.8880e-003 |
| tblVehicleEF | LDT2 | 8.6000e-004 | 8.8800e-004 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.13        | 0.15        |
| tblVehicleEF | LDT2 | 6.9250e-003 | 7.5730e-003 |
| tblVehicleEF | LDT2 | 7.3220e-003 | 8.3000e-003 |
| tblVehicleEF | LDT2 | 0.91        | 0.98        |
| tblVehicleEF | LDT2 | 1.50        | 1.67        |
| tblVehicleEF | LDT2 | 412.78      | 426.98      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.07        | 0.08        |
| tblVehicleEF | LDT2 | 0.14        | 0.16        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.10        | 0.11        |
| tblVehicleEF | LDT2 | 4.1350e-003 | 4.2780e-003 |
| tblVehicleEF | LDT2 | 8.5400e-004 | 8.8100e-004 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 0.03        | 0.03        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 5.7290e-003 | 6.2720e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.01        |
| tblVehicleEF | LDT2 | 0.70        | 0.76        |
| tblVehicleEF | LDT2 | 2.34        | 2.60        |
| tblVehicleEF | LDT2 | 365.68      | 378.26      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.09        | 0.10        |
| tblVehicleEF | LDT2 | 0.17        | 0.20        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.17        |
| tblVehicleEF | LDT2 | 3.6610e-003 | 3.7880e-003 |
| tblVehicleEF | LDT2 | 8.6900e-004 | 8.9800e-004 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.16        | 0.18        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.33        | 1.41        |
| tblVehicleEF | LHD1 | 2.43        | 2.55        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.41        | 2.52        |
| tblVehicleEF | LHD1 | 0.90        | 0.92        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.25        | 0.27        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1700e-004 | 3.2300e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.28        | 0.29        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.35        | 1.44        |
| tblVehicleEF | LHD1 | 2.23        | 2.35        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.25        | 2.36        |
| tblVehicleEF | LHD1 | 0.84        | 0.86        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.17        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.24        | 0.25        |
| tblVehicleEF | LHD1 | 6.7550e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1300e-004 | 3.2000e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.26        | 0.27        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.30        | 1.38        |
| tblVehicleEF | LHD1 | 2.71        | 2.86        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.47        | 2.58        |
| tblVehicleEF | LHD1 | 0.98        | 1.00        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.27        | 0.29        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8000e-003 |
| tblVehicleEF | LHD1 | 3.2200e-004 | 3.2900e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.20        | 0.20        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |
| tblVehicleEF | LHD1 | 0.30        | 0.32        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.6680e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.0550e-003 | 9.0190e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.80        |
| tblVehicleEF | LHD2 | 1.18        | 1.27        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.54        | 1.72        |
| tblVehicleEF | LHD2 | 0.50        | 0.53        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.11        | 0.12        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4600e-004 | 2.5100e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.8150e-003 | 0.01        |
| tblVehicleEF | LHD2 | 7.5830e-003 | 8.4830e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.81        |
| tblVehicleEF | LHD2 | 1.09        | 1.18        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.44        | 1.61        |
| tblVehicleEF | LHD2 | 0.47        | 0.50        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.10        | 0.11        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4400e-004 | 2.4900e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.11        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.5020e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.6460e-003 | 9.7000e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.73        | 0.79        |
| tblVehicleEF | LHD2 | 1.31        | 1.41        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.57        | 1.76        |
| tblVehicleEF | LHD2 | 0.55        | 0.57        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4800e-004 | 2.5300e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |
| tblVehicleEF | LHD2 | 0.13        | 0.14        |
| tblVehicleEF | MCY  | 0.46        | 0.45        |
| tblVehicleEF | MCY  | 0.17        | 0.17        |
| tblVehicleEF | MCY  | 23.13       | 24.13       |
| tblVehicleEF | MCY  | 10.15       | 10.13       |
| tblVehicleEF | MCY  | 177.24      | 176.24      |
| tblVehicleEF | MCY  | 47.77       | 48.16       |
| tblVehicleEF | MCY  | 1.20        | 1.21        |
| tblVehicleEF | MCY  | 0.32        | 0.32        |
| tblVehicleEF | MCY  | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY  | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY  | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY  | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY  | 1.21        | 1.21        |
| tblVehicleEF | MCY  | 0.91        | 0.92        |
| tblVehicleEF | MCY  | 0.67        | 0.67        |
| tblVehicleEF | MCY  | 2.52        | 2.58        |
| tblVehicleEF | MCY  | 0.58        | 0.58        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.29        | 2.31        |
| tblVehicleEF | MCY | 2.2220e-003 | 2.2290e-003 |
| tblVehicleEF | MCY | 7.1100e-004 | 7.1500e-004 |
| tblVehicleEF | MCY | 1.21        | 1.21        |
| tblVehicleEF | MCY | 0.91        | 0.92        |
| tblVehicleEF | MCY | 0.67        | 0.67        |
| tblVehicleEF | MCY | 3.06        | 3.12        |
| tblVehicleEF | MCY | 0.58        | 0.58        |
| tblVehicleEF | MCY | 2.49        | 2.51        |
| tblVehicleEF | MCY | 0.45        | 0.44        |
| tblVehicleEF | MCY | 0.14        | 0.14        |
| tblVehicleEF | MCY | 22.95       | 23.91       |
| tblVehicleEF | MCY | 9.10        | 9.11        |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.01        | 1.02        |
| tblVehicleEF | MCY | 0.29        | 0.29        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.42        | 2.47        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 1.91        | 1.92        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.2160e-003 | 2.2220e-003 |
| tblVehicleEF | MCY | 6.8200e-004 | 6.8700e-004 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.96        | 3.00        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 2.07        | 2.08        |
| tblVehicleEF | MCY | 0.49        | 0.48        |
| tblVehicleEF | MCY | 0.21        | 0.21        |
| tblVehicleEF | MCY | 25.93       | 27.13       |
| tblVehicleEF | MCY | 12.31       | 12.27       |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.33        | 1.34        |
| tblVehicleEF | MCY | 0.35        | 0.35        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 2.70        | 2.77        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 2.88        | 2.91        |
| tblVehicleEF | MCY | 2.2720e-003 | 2.2830e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 7.6400e-004 | 7.6900e-004 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 3.28        | 3.35        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 3.13        | 3.16        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.29        | 1.44        |
| tblVehicleEF | MDV | 3.65        | 3.98        |
| tblVehicleEF | MDV | 512.90      | 527.73      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.17        | 0.19        |
| tblVehicleEF | MDV | 0.33        | 0.36        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.29        | 0.32        |
| tblVehicleEF | MDV | 5.1380e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 1.1790e-003 | 1.2100e-003 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.31        | 0.35        |
| tblVehicleEF | MDV | 0.01        | 0.02        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.59        | 1.77        |
| tblVehicleEF | MDV | 2.96        | 3.24        |
| tblVehicleEF | MDV | 562.53      | 578.81      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.15        | 0.17        |
| tblVehicleEF | MDV | 0.30        | 0.33        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.04        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.23        | 0.26        |
| tblVehicleEF | MDV | 5.6380e-003 | 5.8030e-003 |
| tblVehicleEF | MDV | 1.1660e-003 | 1.1960e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |



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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.05        | 0.06        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.25        | 0.28        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 1.26        | 1.42        |
| tblVehicleEF | MDV | 4.58        | 4.99        |
| tblVehicleEF | MDV | 500.17      | 514.63      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.19        | 0.21        |
| tblVehicleEF | MDV | 0.37        | 0.41        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.35        | 0.38        |
| tblVehicleEF | MDV | 5.0100e-003 | 5.1570e-003 |
| tblVehicleEF | MDV | 1.1950e-003 | 1.2280e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.38        | 0.42        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 3.12        | 3.74        |
| tblVehicleEF | MH  | 6.72        | 7.26        |
| tblVehicleEF | MH  | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH  | 59.93       | 61.77       |
| tblVehicleEF | MH  | 1.78        | 1.87        |
| tblVehicleEF | MH  | 0.93        | 0.97        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH  | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH  | 1.15        | 1.21        |
| tblVehicleEF | MH  | 0.09        | 0.09        |
| tblVehicleEF | MH  | 0.40        | 0.41        |
| tblVehicleEF | MH  | 0.14        | 0.16        |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.39        | 0.44        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 7.1600e-004 | 7.4500e-004 |
| tblVehicleEF | MH  | 1.15        | 1.21        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 0.09        | 0.09        |
| tblVehicleEF | MH | 0.40        | 0.41        |
| tblVehicleEF | MH | 0.19        | 0.22        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.42        | 0.48        |
| tblVehicleEF | MH | 0.05        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 3.26        | 3.89        |
| tblVehicleEF | MH | 6.00        | 6.53        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.62        | 1.71        |
| tblVehicleEF | MH | 0.87        | 0.90        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.14        | 0.17        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.36        | 0.40        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 7.0400e-004 | 7.3200e-004 |

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|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.20        | 0.23        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.39        | 0.44        |
| tblVehicleEF | MH | 0.04        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 2.97        | 3.66        |
| tblVehicleEF | MH | 7.75        | 8.36        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.85        | 1.95        |
| tblVehicleEF | MH | 1.02        | 1.05        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 0.34        | 0.35        |
| tblVehicleEF | MH | 0.10        | 0.10        |
| tblVehicleEF | MH | 0.08        | 0.08        |
| tblVehicleEF | MH | 0.13        | 0.16        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 0.43        | 0.48        |
| tblVehicleEF | MH | 0.01        | 0.01        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MH  | 7.3400e-004 | 7.6400e-004 |
| tblVehicleEF | MH  | 0.34        | 0.35        |
| tblVehicleEF | MH  | 0.10        | 0.10        |
| tblVehicleEF | MH  | 0.08        | 0.08        |
| tblVehicleEF | MH  | 0.18        | 0.21        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.47        | 0.53        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.0130e-003 | 7.8820e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.31        | 0.39        |
| tblVehicleEF | MHD | 0.38        | 0.53        |
| tblVehicleEF | MHD | 4.87        | 5.61        |
| tblVehicleEF | MHD | 189.10      | 189.19      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.77        | 1.11        |
| tblVehicleEF | MHD | 1.50        | 2.01        |
| tblVehicleEF | MHD | 14.63       | 14.44       |
| tblVehicleEF | MHD | 3.7880e-003 | 6.1650e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.6240e-003 | 5.8980e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.29        | 0.33        |
| tblVehicleEF | MHD | 1.8120e-003 | 1.8130e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5900e-004 | 4.8900e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.32        | 0.36        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.1060e-003 | 8.0070e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.22        | 0.27        |
| tblVehicleEF | MHD | 0.38        | 0.54        |
| tblVehicleEF | MHD | 4.48        | 5.15        |
| tblVehicleEF | MHD | 200.42      | 200.52      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.80        | 1.15        |
| tblVehicleEF | MHD | 1.41        | 1.89        |
| tblVehicleEF | MHD | 14.59       | 14.40       |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 3.1930e-003 | 5.1970e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.0550e-003 | 4.9720e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.03        | 0.03        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.27        | 0.31        |
| tblVehicleEF | MHD | 1.9190e-003 | 1.9200e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5200e-004 | 4.8100e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.30        | 0.34        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 4.9100e-003 | 7.7420e-003 |
| tblVehicleEF | MHD | 0.07        | 0.08        |
| tblVehicleEF | MHD | 0.42        | 0.52        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.37        | 0.52        |
| tblVehicleEF | MHD | 5.46        | 6.30        |
| tblVehicleEF | MHD | 173.69      | 173.79      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.74        | 1.06        |
| tblVehicleEF | MHD | 1.54        | 2.05        |
| tblVehicleEF | MHD | 14.69       | 14.51       |
| tblVehicleEF | MHD | 4.6090e-003 | 7.5020e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 4.4100e-003 | 7.1770e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.31        | 0.36        |
| tblVehicleEF | MHD | 1.6660e-003 | 1.6670e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.6900e-004 | 5.0000e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD  | 0.07        | 0.13        |
| tblVehicleEF | MHD  | 0.01        | 0.01        |
| tblVehicleEF | MHD  | 0.34        | 0.39        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.27        |
| tblVehicleEF | OBUS | 0.99        | 1.14        |
| tblVehicleEF | OBUS | 6.84        | 7.25        |
| tblVehicleEF | OBUS | 56.81       | 56.36       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.27        |
| tblVehicleEF | OBUS | 1.06        | 1.23        |
| tblVehicleEF | OBUS | 1.73        | 1.80        |
| tblVehicleEF | OBUS | 8.6000e-005 | 1.2600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 8.2000e-005 | 1.2100e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.07        | 0.07        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.42        | 0.44        |
| tblVehicleEF | OBUS | 5.5500e-004 | 5.5100e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.4200e-004 | 8.5300e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.46        | 0.49        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.26        |
| tblVehicleEF | OBUS | 1.02        | 1.18        |
| tblVehicleEF | OBUS | 6.15        | 6.53        |
| tblVehicleEF | OBUS | 59.14       | 58.65       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.28        |
| tblVehicleEF | OBUS | 0.98        | 1.13        |
| tblVehicleEF | OBUS | 1.65        | 1.72        |
| tblVehicleEF | OBUS | 7.2000e-005 | 1.0600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 6.9000e-005 | 1.0200e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.07        | 0.08        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.39        | 0.41        |
| tblVehicleEF | OBUS | 5.7700e-004 | 5.7200e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.3100e-004 | 8.4100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.43        | 0.45        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 0.27        | 0.28        |
| tblVehicleEF | OBUS | 0.95        | 1.10        |
| tblVehicleEF | OBUS | 7.73        | 8.20        |
| tblVehicleEF | OBUS | 53.61       | 53.20       |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.23        | 0.26        |
| tblVehicleEF | OBUS | 1.10        | 1.28        |
| tblVehicleEF | OBUS | 1.82        | 1.90        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 1.0000e-004 | 1.4700e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.04        | 0.04        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.07        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.45        | 0.48        |
| tblVehicleEF | OBUS | 5.2400e-004 | 5.2000e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.5700e-004 | 8.7000e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.50        | 0.53        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.09        |
| tblVehicleEF | SBUS | 8.09        | 8.04        |
| tblVehicleEF | SBUS | 1.17        | 1.27        |
| tblVehicleEF | SBUS | 9.98        | 10.40       |
| tblVehicleEF | SBUS | 1,131.62    | 1,141.47    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.84        | 10.42       |
| tblVehicleEF | SBUS | 4.13        | 4.46        |
| tblVehicleEF | SBUS | 12.34       | 12.52       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.49        | 0.51        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 9.9880e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.2600e-004 | 7.2500e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.39        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.54        | 0.56        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.07        | 0.07        |
| tblVehicleEF | SBUS | 7.97        | 7.91        |
| tblVehicleEF | SBUS | 1.20        | 1.31        |
| tblVehicleEF | SBUS | 6.79        | 7.08        |
| tblVehicleEF | SBUS | 1,182.62    | 1,193.28    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 10.15       | 10.75       |
| tblVehicleEF | SBUS | 3.85        | 4.16        |
| tblVehicleEF | SBUS | 12.28       | 12.46       |
| tblVehicleEF | SBUS | 8.9840e-003 | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 8.5950e-003 | 9.6740e-003 |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 0.96        | 0.96        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.13        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.40        | 0.41        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9890e-003 | 0.01        |
| tblVehicleEF | SBUS | 6.7300e-004 | 6.7000e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 1.39        | 1.39        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.44        | 0.45        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.10        | 0.11        |
| tblVehicleEF | SBUS | 8.26        | 8.22        |
| tblVehicleEF | SBUS | 1.13        | 1.23        |
| tblVehicleEF | SBUS | 14.04       | 14.62       |
| tblVehicleEF | SBUS | 1,061.20    | 1,069.93    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.40        | 9.96        |
| tblVehicleEF | SBUS | 4.23        | 4.57        |
| tblVehicleEF | SBUS | 12.40       | 12.59       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.60        | 0.62        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9870e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.9300e-004 | 7.9500e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.40        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.14        | 0.15        |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.65        | 0.68        |
| tblVehicleEF | UBUS | 2.00        | 2.14        |
| tblVehicleEF | UBUS | 0.06        | 0.05        |
| tblVehicleEF | UBUS | 8.64        | 9.10        |
| tblVehicleEF | UBUS | 10.06       | 9.98        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.88        | 7.49        |
| tblVehicleEF | UBUS | 14.69       | 14.96       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |
| tblVehicleEF | UBUS | 0.63        | 0.67        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.75        | 0.74        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2710e-003 | 1.2310e-003 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 2.70        | 2.89        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.82        | 0.81        |
| tblVehicleEF | UBUS | 2.01        | 2.14        |
| tblVehicleEF | UBUS | 0.05        | 0.05        |
| tblVehicleEF | UBUS | 8.72        | 9.17        |
| tblVehicleEF | UBUS | 7.82        | 7.76        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.42        | 6.99        |
| tblVehicleEF | UBUS | 14.61       | 14.88       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 0.64        | 0.69        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.65        | 0.64        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2320e-003 | 1.1920e-003 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 2.72        | 2.91        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.71        | 0.70        |
| tblVehicleEF | UBUS | 2.00        | 2.13        |
| tblVehicleEF | UBUS | 0.07        | 0.06        |
| tblVehicleEF | UBUS | 8.57        | 9.02        |
| tblVehicleEF | UBUS | 13.20       | 13.11       |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 7.04        | 7.66        |
| tblVehicleEF | UBUS | 14.80       | 15.07       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 0.62        | 0.66        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.89        | 0.88        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.3240e-003 | 1.2840e-003 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 2.68        | 2.87        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.97        | 0.96        |

## 2.0 Emissions Summary

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## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Annual

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1       | 10-1-2020  | 12-31-2020 | 3.5572                                       | 3.5572                                     |
| 2       | 1-1-2021   | 3-31-2021  | 2.1511                                       | 2.1511                                     |
|         |            | Highest    | 3.5572                                       | 3.5572                                     |



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**3.0 Construction Detail****Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |
| 2            | File Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Crawler Tractors          | 2      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Graders                   | 1      | 10.00       | 187         | 0.41        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |



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**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 5                       | 13.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 6.20                | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.1936        | 0.0000        | 0.1936        | 0.0273         | 0.0000        | 0.0273        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1267        | 1.4749        | 0.6227        | 1.8800e-003        |               | 0.0583        | 0.0583        |                | 0.0536        | 0.0536        | 0.0000        | 165.2070        | 165.2070        | 0.0534        | 0.0000        | 166.5428        |
| <b>Total</b>  | <b>0.1267</b> | <b>1.4749</b> | <b>0.6227</b> | <b>1.8800e-003</b> | <b>0.1936</b> | <b>0.0583</b> | <b>0.2519</b> | <b>0.0273</b>  | <b>0.0536</b> | <b>0.0809</b> | <b>0.0000</b> | <b>165.2070</b> | <b>165.2070</b> | <b>0.0534</b> | <b>0.0000</b> | <b>166.5428</b> |

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**3.2 Site Restoration - 2020**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|----------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.4000e-004        | 1.8000e-004        | 2.6700e-003        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000         | 0.0000        | 1.0000e-005        | 0.0000        | 0.1060        | 0.1060        | 1.0000e-005        | 0.0000        | 0.1064        |
| <b>Total</b> | <b>5.4000e-004</b> | <b>1.8000e-004</b> | <b>2.6700e-003</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.1060</b> | <b>0.1060</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.1064</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0871        | 0.0000        | 0.0871        | 0.0123         | 0.0000        | 0.0123        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1267        | 1.4749        | 0.6227        | 1.8800e-003        |               | 0.0583        | 0.0583        |                | 0.0536        | 0.0536        | 0.0000        | 165.2068        | 165.2068        | 0.0534        | 0.0000        | 166.5426        |
| <b>Total</b>  | <b>0.1267</b> | <b>1.4749</b> | <b>0.6227</b> | <b>1.8800e-003</b> | <b>0.0871</b> | <b>0.0583</b> | <b>0.1454</b> | <b>0.0123</b>  | <b>0.0536</b> | <b>0.0659</b> | <b>0.0000</b> | <b>165.2068</b> | <b>165.2068</b> | <b>0.0534</b> | <b>0.0000</b> | <b>166.5426</b> |

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**3.2 Site Restoration - 2020**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|----------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.4000e-004        | 1.8000e-004        | 2.6700e-003        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000         | 0.0000        | 1.0000e-005        | 0.0000        | 0.1060        | 0.1060        | 1.0000e-005        | 0.0000        | 0.1064        |
| <b>Total</b> | <b>5.4000e-004</b> | <b>1.8000e-004</b> | <b>2.6700e-003</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.1060</b> | <b>0.1060</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.1064</b> |

**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.1936        | 0.0000        | 0.1936        | 0.0273         | 0.0000        | 0.0273        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0762        | 0.8664        | 0.3886        | 1.2100e-003        |               | 0.0337        | 0.0337        |                | 0.0310        | 0.0310        | 0.0000        | 106.6183        | 106.6183        | 0.0345        | 0.0000        | 107.4804        |
| <b>Total</b>  | <b>0.0762</b> | <b>0.8664</b> | <b>0.3886</b> | <b>1.2100e-003</b> | <b>0.1936</b> | <b>0.0337</b> | <b>0.2272</b> | <b>0.0273</b>  | <b>0.0310</b> | <b>0.0583</b> | <b>0.0000</b> | <b>106.6183</b> | <b>106.6183</b> | <b>0.0345</b> | <b>0.0000</b> | <b>107.4804</b> |

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**3.2 Site Restoration - 2021**

**Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |               |               |                    |                |               |               | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 1.0000e-004        | 1.5500e-003        | 0.0000        | 0.0000        | 0.0000        | 1.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0663        | 0.0663        | 1.0000e-005        | 0.0000        | 0.0665        |
| <b>Total</b> | <b>3.2000e-004</b> | <b>1.0000e-004</b> | <b>1.5500e-003</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0663</b> | <b>0.0663</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0665</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0871        | 0.0000        | 0.0871        | 0.0123         | 0.0000        | 0.0123        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0762        | 0.8664        | 0.3886        | 1.2100e-003        |               | 0.0337        | 0.0337        |                | 0.0310        | 0.0310        | 0.0000        | 106.6182        | 106.6182        | 0.0345        | 0.0000        | 107.4802        |
| <b>Total</b>  | <b>0.0762</b> | <b>0.8664</b> | <b>0.3886</b> | <b>1.2100e-003</b> | <b>0.0871</b> | <b>0.0337</b> | <b>0.1208</b> | <b>0.0123</b>  | <b>0.0310</b> | <b>0.0433</b> | <b>0.0000</b> | <b>106.6182</b> | <b>106.6182</b> | <b>0.0345</b> | <b>0.0000</b> | <b>107.4802</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |               |               |                    |                |               |               | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 1.0000e-004        | 1.5500e-003        | 0.0000        | 0.0000        | 0.0000        | 1.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0663        | 0.0663        | 1.0000e-005        | 0.0000        | 0.0665        |
| <b>Total</b> | <b>3.2000e-004</b> | <b>1.0000e-004</b> | <b>1.5500e-003</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0663</b> | <b>0.0663</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0665</b> |

**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0493        | 1.9016        | 0.2710        | 4.2100e-003        | 0.0951        | 4.3500e-003        | 0.0994        | 0.0252         | 4.1600e-003        | 0.0294        | 0.0000        | 400.6835        | 400.6835        | 0.0359        | 0.0000        | 401.5812        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 0.0141        | 0.0100        | 0.1000        | 3.3000e-004        | 0.0325        | 2.2000e-004        | 0.0328        | 8.6500e-003    | 2.0000e-004        | 8.8600e-003   | 0.0000        | 29.4183         | 29.4183         | 7.2000e-004   | 0.0000        | 29.4363         |
| <b>Total</b> | <b>0.0635</b> | <b>1.9116</b> | <b>0.3710</b> | <b>4.5400e-003</b> | <b>0.1276</b> | <b>4.5700e-003</b> | <b>0.1322</b> | <b>0.0339</b>  | <b>4.3600e-003</b> | <b>0.0383</b> | <b>0.0000</b> | <b>430.1018</b> | <b>430.1018</b> | <b>0.0366</b> | <b>0.0000</b> | <b>431.0175</b> |

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**3.3 File Material Hauling - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0493        | 1.9016        | 0.2710        | 4.2100e-003        | 0.0880        | 4.3500e-003        | 0.0923        | 0.0235         | 4.1600e-003        | 0.0277        | 0.0000        | 400.6835        | 400.6835        | 0.0359        | 0.0000        | 401.5812        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 0.0141        | 0.0100        | 0.1000        | 3.3000e-004        | 0.0300        | 2.2000e-004        | 0.0302        | 8.0300e-003    | 2.0000e-004        | 8.2300e-003   | 0.0000        | 29.4183         | 29.4183         | 7.2000e-004   | 0.0000        | 29.4363         |
| <b>Total</b> | <b>0.0635</b> | <b>1.9116</b> | <b>0.3710</b> | <b>4.5400e-003</b> | <b>0.1180</b> | <b>4.5700e-003</b> | <b>0.1226</b> | <b>0.0315</b>  | <b>4.3600e-003</b> | <b>0.0359</b> | <b>0.0000</b> | <b>430.1018</b> | <b>430.1018</b> | <b>0.0366</b> | <b>0.0000</b> | <b>431.0175</b> |

**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0297        | 1.1553        | 0.1630        | 2.6900e-003        | 0.0893        | 2.4600e-003        | 0.0918        | 0.0232         | 2.3500e-003        | 0.0255        | 0.0000        | 255.6783        | 255.6783        | 0.0225        | 0.0000        | 256.2399        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 8.4800e-003   | 5.7700e-003   | 0.0590        | 2.0000e-004        | 0.0210        | 1.4000e-004        | 0.0212        | 5.5900e-003    | 1.3000e-004        | 5.7100e-003   | 0.0000        | 18.3280         | 18.3280         | 4.2000e-004   | 0.0000        | 18.3384         |
| <b>Total</b> | <b>0.0382</b> | <b>1.1611</b> | <b>0.2219</b> | <b>2.8900e-003</b> | <b>0.1103</b> | <b>2.6000e-003</b> | <b>0.1129</b> | <b>0.0287</b>  | <b>2.4800e-003</b> | <b>0.0312</b> | <b>0.0000</b> | <b>274.0063</b> | <b>274.0063</b> | <b>0.0229</b> | <b>0.0000</b> | <b>274.5783</b> |







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**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SubCategory           | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

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**8.2 Waste by Land Use**

Unmitigated

|              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |               |               |               |
|              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

Mitigated

|              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |               |               |               |
|              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**9.0 Operational Offroad**

---

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

**WSAFCA Southport Levee Improvement Project**  
**Yolo/Solano AQMD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
|           | 0.00 |        | 0.00        | 0.00               | 0          |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 6.8 | <b>Precipitation Freq (Days)</b> | 55   |
| <b>Climate Zone</b>             | 2     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

Project Characteristics - This file reflects responses to comments frm the SMAQMD. Changes made 11-19-19.

Land Use -

Construction Phase - per 8/4/19 8:35 p.m. Email message.

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate 10 hours per day.

Trips and VMT - No truck trips for site restoration, change workers to 80. Hauling trips set to 40,000 11-19-19.

On-road Fugitive Dust - 100% paving

Grading - Grading at Area's: A1, A3, A4, and RP2. "Material Imported" amount corrected 11-19-19.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Area Coating -

Landscape Equipment -

Construction Off-road Equipment Mitigation - Water exposed area's 2 times a day. Change vehicle speed to 15 mph. Engine Tier & Oxidation Catalyst corrected 11-19-19.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name             | Column Name                               | Default Value | New Value |
|------------------------|---|---------------|-----------|
| tblAreaMitigation      | UseLowVOCPaintNonresidentialExteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintNonresidentialInteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintParkingValue                | 150           | 100       |
| tblConstDustMitigation | CleanPavedRoadPercentReduction            | 0             | 9         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent           | 0             | 0.5       |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed              | 0             | 15        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|                         |                            |             |             |
|-------------------------|----------------------------|-------------|-------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 2.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblFleetMix             | HHD                        | 0.05        | 0.05        |
| tblFleetMix             | LDA                        | 0.52        | 0.52        |
| tblFleetMix             | LDT1                       | 0.04        | 0.04        |
| tblFleetMix             | LDT2                       | 0.19        | 0.19        |
| tblFleetMix             | LHD1                       | 0.02        | 0.02        |
| tblFleetMix             | LHD2                       | 5.6350e-003 | 5.8400e-003 |
| tblFleetMix             | MCY                        | 7.1040e-003 | 7.3350e-003 |
| tblFleetMix             | MDV                        | 0.12        | 0.12        |
| tblFleetMix             | MH                         | 9.8700e-004 | 1.0520e-003 |
| tblFleetMix             | MHD                        | 0.03        | 0.03        |
| tblFleetMix             | OBUS                       | 1.3360e-003 | 1.3420e-003 |
| tblFleetMix             | SBUS                       | 6.9100e-004 | 6.9400e-004 |
| tblFleetMix             | UBUS                       | 2.0700e-003 | 2.1510e-003 |
| tblGrading              | AcresOfGrading             | 243.75      | 87.60       |
| tblGrading              | MaterialImported           | 0.00        | 600,000.00  |
| tblOffRoadEquipment     | HorsePower                 | 81.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 231.00      | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 89.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 247.00      | 0.00        |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 158.00 | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.73   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.29   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.20   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.40   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.38   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 4.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 1.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | WorkerPercentPave          | 94.00  | 100.00 |



WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|                |                   |             |             |
|----------------|-------------------|-------------|-------------|
| tblOnRoadDust  | WorkerPercentPave | 94.00       | 100.00      |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 0.00        |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 6.20        |
| tblTripsAndVMT | HaulingTripNumber | 75,000.00   | 0.00        |
| tblTripsAndVMT | HaulingTripNumber | 0.00        | 40,000.00   |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 0.00        |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 6.50        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 0.00        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 14.00       |
| tblTripsAndVMT | WorkerTripNumber  | 0.00        | 80.00       |
| tblVehicleEF   | HHD               | 1.26        | 1.27        |
| tblVehicleEF   | HHD               | 8.3200e-003 | 9.0630e-003 |
| tblVehicleEF   | HHD               | 0.12        | 0.15        |
| tblVehicleEF   | HHD               | 3.33        | 3.51        |
| tblVehicleEF   | HHD               | 0.69        | 0.72        |
| tblVehicleEF   | HHD               | 1.75        | 2.08        |
| tblVehicleEF   | HHD               | 6,182.38    | 6,249.03    |
| tblVehicleEF   | HHD               | 1,604.14    | 1,623.71    |
| tblVehicleEF   | HHD               | 4.76        | 5.39        |
| tblVehicleEF   | HHD               | 25.54       | 27.06       |
| tblVehicleEF   | HHD               | 3.32        | 3.75        |
| tblVehicleEF   | HHD               | 20.31       | 20.29       |
| tblVehicleEF   | HHD               | 0.03        | 0.04        |
| tblVehicleEF   | HHD               | 0.06        | 0.06        |
| tblVehicleEF   | HHD               | 0.04        | 0.04        |
| tblVehicleEF   | HHD               | 0.02        | 0.02        |
| tblVehicleEF   | HHD               | 5.3000e-005 | 1.0300e-004 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.03        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 0.90        | 0.95        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.7000e-005 | 8.9000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 1.02        | 1.08        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 1.19        | 1.20        |
| tblVehicleEF | HHD | 8.3500e-003 | 9.0970e-003 |
| tblVehicleEF | HHD | 0.11        | 0.14        |
| tblVehicleEF | HHD | 2.43        | 2.57        |
| tblVehicleEF | HHD | 0.69        | 0.72        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.61        | 1.93        |
| tblVehicleEF | HHD | 6,546.79    | 6,615.68    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 26.36       | 27.91       |
| tblVehicleEF | HHD | 3.13        | 3.53        |
| tblVehicleEF | HHD | 20.30       | 20.28       |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.85        | 0.89        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.4000e-005 | 8.6000e-005 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 1.36        | 1.37        |
| tblVehicleEF | HHD | 8.2870e-003 | 9.0260e-003 |
| tblVehicleEF | HHD | 0.13        | 0.17        |
| tblVehicleEF | HHD | 4.58        | 4.82        |
| tblVehicleEF | HHD | 0.68        | 0.71        |
| tblVehicleEF | HHD | 1.98        | 2.35        |
| tblVehicleEF | HHD | 5,679.15    | 5,742.69    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 24.42       | 25.87       |
| tblVehicleEF | HHD | 3.39        | 3.83        |
| tblVehicleEF | HHD | 20.32       | 20.30       |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 0.05        | 0.05        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 8.0000e-005 | 9.3000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 1.10        | 1.16        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.09        |
| tblVehicleEF | LDA | 4.6710e-003 | 5.1960e-003 |
| tblVehicleEF | LDA | 6.3160e-003 | 7.2910e-003 |
| tblVehicleEF | LDA | 0.58        | 0.63        |
| tblVehicleEF | LDA | 1.33        | 1.48        |
| tblVehicleEF | LDA | 273.66      | 284.76      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.06        |
| tblVehicleEF | LDA | 0.08        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.01        | 0.01        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.10        |
| tblVehicleEF | LDA | 2.7400e-003 | 2.8510e-003 |
| tblVehicleEF | LDA | 6.1500e-004 | 6.3900e-004 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 5.3900e-003 | 5.9980e-003 |
| tblVehicleEF | LDA | 5.1510e-003 | 5.9470e-003 |
| tblVehicleEF | LDA | 0.73        | 0.79        |
| tblVehicleEF | LDA | 1.07        | 1.20        |
| tblVehicleEF | LDA | 301.40      | 313.66      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.05        | 0.06        |
| tblVehicleEF | LDA | 0.07        | 0.09        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.01        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.07        | 0.08        |
| tblVehicleEF | LDA | 3.0190e-003 | 3.1420e-003 |
| tblVehicleEF | LDA | 6.1100e-004 | 6.3400e-004 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.08        | 0.09        |
| tblVehicleEF | LDA | 4.4570e-003 | 4.9650e-003 |
| tblVehicleEF | LDA | 7.6410e-003 | 8.8260e-003 |
| tblVehicleEF | LDA | 0.56        | 0.60        |
| tblVehicleEF | LDA | 1.67        | 1.87        |
| tblVehicleEF | LDA | 266.60      | 277.40      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.07        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDA  | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA  | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.10        | 0.12        |
| tblVehicleEF | LDA  | 2.6690e-003 | 2.7780e-003 |
| tblVehicleEF | LDA  | 6.2100e-004 | 6.4600e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.11        | 0.13        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.24        | 1.38        |
| tblVehicleEF | LDT1 | 3.64        | 4.05        |
| tblVehicleEF | LDT1 | 332.25      | 342.70      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.13        | 0.15        |
| tblVehicleEF | LDT1 | 0.20        | 0.23        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.25        | 0.28        |
| tblVehicleEF | LDT1 | 3.3370e-003 | 3.4430e-003 |
| tblVehicleEF | LDT1 | 7.9700e-004 | 8.2100e-004 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.28        | 0.31        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.52        | 1.68        |
| tblVehicleEF | LDT1 | 2.93        | 3.25        |
| tblVehicleEF | LDT1 | 364.69      | 376.09      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.12        | 0.13        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.21        | 0.23        |
| tblVehicleEF | LDT1 | 3.6650e-003 | 3.7820e-003 |
| tblVehicleEF | LDT1 | 7.8400e-004 | 8.0700e-004 |
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.04        | 0.05        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.22        | 0.25        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 1.21        | 1.34        |
| tblVehicleEF | LDT1 | 4.62        | 5.15        |
| tblVehicleEF | LDT1 | 323.92      | 334.13      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.15        | 0.17        |
| tblVehicleEF | LDT1 | 0.23        | 0.26        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.31        | 0.35        |
| tblVehicleEF | LDT1 | 3.2530e-003 | 3.3570e-003 |
| tblVehicleEF | LDT1 | 8.1400e-004 | 8.4000e-004 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.34        | 0.38        |
| tblVehicleEF | LDT2 | 6.0170e-003 | 6.5820e-003 |
| tblVehicleEF | LDT2 | 8.9770e-003 | 0.01        |
| tblVehicleEF | LDT2 | 0.73        | 0.79        |
| tblVehicleEF | LDT2 | 1.86        | 2.07        |
| tblVehicleEF | LDT2 | 375.31      | 388.22      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.18        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.12        | 0.14        |
| tblVehicleEF | LDT2 | 3.7580e-003 | 3.8880e-003 |
| tblVehicleEF | LDT2 | 8.6000e-004 | 8.8800e-004 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.13        | 0.15        |
| tblVehicleEF | LDT2 | 6.9250e-003 | 7.5730e-003 |
| tblVehicleEF | LDT2 | 7.3220e-003 | 8.3000e-003 |
| tblVehicleEF | LDT2 | 0.91        | 0.98        |
| tblVehicleEF | LDT2 | 1.50        | 1.67        |
| tblVehicleEF | LDT2 | 412.78      | 426.98      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.07        | 0.08        |
| tblVehicleEF | LDT2 | 0.14        | 0.16        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.10        | 0.11        |
| tblVehicleEF | LDT2 | 4.1350e-003 | 4.2780e-003 |
| tblVehicleEF | LDT2 | 8.5400e-004 | 8.8100e-004 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 0.03        | 0.03        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 5.7290e-003 | 6.2720e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.01        |
| tblVehicleEF | LDT2 | 0.70        | 0.76        |
| tblVehicleEF | LDT2 | 2.34        | 2.60        |
| tblVehicleEF | LDT2 | 365.68      | 378.26      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.09        | 0.10        |
| tblVehicleEF | LDT2 | 0.17        | 0.20        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.17        |
| tblVehicleEF | LDT2 | 3.6610e-003 | 3.7880e-003 |
| tblVehicleEF | LDT2 | 8.6900e-004 | 8.9800e-004 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.16        | 0.18        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.33        | 1.41        |
| tblVehicleEF | LHD1 | 2.43        | 2.55        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.41        | 2.52        |
| tblVehicleEF | LHD1 | 0.90        | 0.92        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.25        | 0.27        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1700e-004 | 3.2300e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.28        | 0.29        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.35        | 1.44        |
| tblVehicleEF | LHD1 | 2.23        | 2.35        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.25        | 2.36        |
| tblVehicleEF | LHD1 | 0.84        | 0.86        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.17        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.24        | 0.25        |
| tblVehicleEF | LHD1 | 6.7550e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1300e-004 | 3.2000e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.26        | 0.27        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.30        | 1.38        |
| tblVehicleEF | LHD1 | 2.71        | 2.86        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.47        | 2.58        |
| tblVehicleEF | LHD1 | 0.98        | 1.00        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.27        | 0.29        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8000e-003 |
| tblVehicleEF | LHD1 | 3.2200e-004 | 3.2900e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.20        | 0.20        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |
| tblVehicleEF | LHD1 | 0.30        | 0.32        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.6680e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.0550e-003 | 9.0190e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.80        |
| tblVehicleEF | LHD2 | 1.18        | 1.27        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.54        | 1.72        |
| tblVehicleEF | LHD2 | 0.50        | 0.53        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.11        | 0.12        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4600e-004 | 2.5100e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.8150e-003 | 0.01        |
| tblVehicleEF | LHD2 | 7.5830e-003 | 8.4830e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.81        |
| tblVehicleEF | LHD2 | 1.09        | 1.18        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.44        | 1.61        |
| tblVehicleEF | LHD2 | 0.47        | 0.50        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.10        | 0.11        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4400e-004 | 2.4900e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.11        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.5020e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.6460e-003 | 9.7000e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.73        | 0.79        |
| tblVehicleEF | LHD2 | 1.31        | 1.41        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.57        | 1.76        |
| tblVehicleEF | LHD2 | 0.55        | 0.57        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4800e-004 | 2.5300e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |
| tblVehicleEF | LHD2 | 0.13        | 0.14        |
| tblVehicleEF | MCY  | 0.46        | 0.45        |
| tblVehicleEF | MCY  | 0.17        | 0.17        |
| tblVehicleEF | MCY  | 23.13       | 24.13       |
| tblVehicleEF | MCY  | 10.15       | 10.13       |
| tblVehicleEF | MCY  | 177.24      | 176.24      |
| tblVehicleEF | MCY  | 47.77       | 48.16       |
| tblVehicleEF | MCY  | 1.20        | 1.21        |
| tblVehicleEF | MCY  | 0.32        | 0.32        |
| tblVehicleEF | MCY  | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY  | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY  | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY  | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY  | 1.21        | 1.21        |
| tblVehicleEF | MCY  | 0.91        | 0.92        |
| tblVehicleEF | MCY  | 0.67        | 0.67        |
| tblVehicleEF | MCY  | 2.52        | 2.58        |
| tblVehicleEF | MCY  | 0.58        | 0.58        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.29        | 2.31        |
| tblVehicleEF | MCY | 2.2220e-003 | 2.2290e-003 |
| tblVehicleEF | MCY | 7.1100e-004 | 7.1500e-004 |
| tblVehicleEF | MCY | 1.21        | 1.21        |
| tblVehicleEF | MCY | 0.91        | 0.92        |
| tblVehicleEF | MCY | 0.67        | 0.67        |
| tblVehicleEF | MCY | 3.06        | 3.12        |
| tblVehicleEF | MCY | 0.58        | 0.58        |
| tblVehicleEF | MCY | 2.49        | 2.51        |
| tblVehicleEF | MCY | 0.45        | 0.44        |
| tblVehicleEF | MCY | 0.14        | 0.14        |
| tblVehicleEF | MCY | 22.95       | 23.91       |
| tblVehicleEF | MCY | 9.10        | 9.11        |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.01        | 1.02        |
| tblVehicleEF | MCY | 0.29        | 0.29        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.42        | 2.47        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 1.91        | 1.92        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.2160e-003 | 2.2220e-003 |
| tblVehicleEF | MCY | 6.8200e-004 | 6.8700e-004 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.96        | 3.00        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 2.07        | 2.08        |
| tblVehicleEF | MCY | 0.49        | 0.48        |
| tblVehicleEF | MCY | 0.21        | 0.21        |
| tblVehicleEF | MCY | 25.93       | 27.13       |
| tblVehicleEF | MCY | 12.31       | 12.27       |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.33        | 1.34        |
| tblVehicleEF | MCY | 0.35        | 0.35        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 2.70        | 2.77        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 2.88        | 2.91        |
| tblVehicleEF | MCY | 2.2720e-003 | 2.2830e-003 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 7.6400e-004 | 7.6900e-004 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 3.28        | 3.35        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 3.13        | 3.16        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.29        | 1.44        |
| tblVehicleEF | MDV | 3.65        | 3.98        |
| tblVehicleEF | MDV | 512.90      | 527.73      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.17        | 0.19        |
| tblVehicleEF | MDV | 0.33        | 0.36        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.29        | 0.32        |
| tblVehicleEF | MDV | 5.1380e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 1.1790e-003 | 1.2100e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.31        | 0.35        |
| tblVehicleEF | MDV | 0.01        | 0.02        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.59        | 1.77        |
| tblVehicleEF | MDV | 2.96        | 3.24        |
| tblVehicleEF | MDV | 562.53      | 578.81      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.15        | 0.17        |
| tblVehicleEF | MDV | 0.30        | 0.33        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.04        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.23        | 0.26        |
| tblVehicleEF | MDV | 5.6380e-003 | 5.8030e-003 |
| tblVehicleEF | MDV | 1.1660e-003 | 1.1960e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.05        | 0.06        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.25        | 0.28        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 1.26        | 1.42        |
| tblVehicleEF | MDV | 4.58        | 4.99        |
| tblVehicleEF | MDV | 500.17      | 514.63      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.19        | 0.21        |
| tblVehicleEF | MDV | 0.37        | 0.41        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.35        | 0.38        |
| tblVehicleEF | MDV | 5.0100e-003 | 5.1570e-003 |
| tblVehicleEF | MDV | 1.1950e-003 | 1.2280e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.38        | 0.42        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 3.12        | 3.74        |
| tblVehicleEF | MH  | 6.72        | 7.26        |
| tblVehicleEF | MH  | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH  | 59.93       | 61.77       |
| tblVehicleEF | MH  | 1.78        | 1.87        |
| tblVehicleEF | MH  | 0.93        | 0.97        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH  | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH  | 1.15        | 1.21        |
| tblVehicleEF | MH  | 0.09        | 0.09        |
| tblVehicleEF | MH  | 0.40        | 0.41        |
| tblVehicleEF | MH  | 0.14        | 0.16        |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.39        | 0.44        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 7.1600e-004 | 7.4500e-004 |
| tblVehicleEF | MH  | 1.15        | 1.21        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 0.09        | 0.09        |
| tblVehicleEF | MH | 0.40        | 0.41        |
| tblVehicleEF | MH | 0.19        | 0.22        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.42        | 0.48        |
| tblVehicleEF | MH | 0.05        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 3.26        | 3.89        |
| tblVehicleEF | MH | 6.00        | 6.53        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.62        | 1.71        |
| tblVehicleEF | MH | 0.87        | 0.90        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.14        | 0.17        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.36        | 0.40        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 7.0400e-004 | 7.3200e-004 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.20        | 0.23        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.39        | 0.44        |
| tblVehicleEF | MH | 0.04        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 2.97        | 3.66        |
| tblVehicleEF | MH | 7.75        | 8.36        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.85        | 1.95        |
| tblVehicleEF | MH | 1.02        | 1.05        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 0.34        | 0.35        |
| tblVehicleEF | MH | 0.10        | 0.10        |
| tblVehicleEF | MH | 0.08        | 0.08        |
| tblVehicleEF | MH | 0.13        | 0.16        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 0.43        | 0.48        |
| tblVehicleEF | MH | 0.01        | 0.01        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MH  | 7.3400e-004 | 7.6400e-004 |
| tblVehicleEF | MH  | 0.34        | 0.35        |
| tblVehicleEF | MH  | 0.10        | 0.10        |
| tblVehicleEF | MH  | 0.08        | 0.08        |
| tblVehicleEF | MH  | 0.18        | 0.21        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.47        | 0.53        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.0130e-003 | 7.8820e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.31        | 0.39        |
| tblVehicleEF | MHD | 0.38        | 0.53        |
| tblVehicleEF | MHD | 4.87        | 5.61        |
| tblVehicleEF | MHD | 189.10      | 189.19      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.77        | 1.11        |
| tblVehicleEF | MHD | 1.50        | 2.01        |
| tblVehicleEF | MHD | 14.63       | 14.44       |
| tblVehicleEF | MHD | 3.7880e-003 | 6.1650e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.6240e-003 | 5.8980e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.29        | 0.33        |
| tblVehicleEF | MHD | 1.8120e-003 | 1.8130e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5900e-004 | 4.8900e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.32        | 0.36        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.1060e-003 | 8.0070e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.22        | 0.27        |
| tblVehicleEF | MHD | 0.38        | 0.54        |
| tblVehicleEF | MHD | 4.48        | 5.15        |
| tblVehicleEF | MHD | 200.42      | 200.52      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.80        | 1.15        |
| tblVehicleEF | MHD | 1.41        | 1.89        |
| tblVehicleEF | MHD | 14.59       | 14.40       |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 3.1930e-003 | 5.1970e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.0550e-003 | 4.9720e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.03        | 0.03        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.27        | 0.31        |
| tblVehicleEF | MHD | 1.9190e-003 | 1.9200e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5200e-004 | 4.8100e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.30        | 0.34        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 4.9100e-003 | 7.7420e-003 |
| tblVehicleEF | MHD | 0.07        | 0.08        |
| tblVehicleEF | MHD | 0.42        | 0.52        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.37        | 0.52        |
| tblVehicleEF | MHD | 5.46        | 6.30        |
| tblVehicleEF | MHD | 173.69      | 173.79      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.74        | 1.06        |
| tblVehicleEF | MHD | 1.54        | 2.05        |
| tblVehicleEF | MHD | 14.69       | 14.51       |
| tblVehicleEF | MHD | 4.6090e-003 | 7.5020e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 4.4100e-003 | 7.1770e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.31        | 0.36        |
| tblVehicleEF | MHD | 1.6660e-003 | 1.6670e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.6900e-004 | 5.0000e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD  | 0.07        | 0.13        |
| tblVehicleEF | MHD  | 0.01        | 0.01        |
| tblVehicleEF | MHD  | 0.34        | 0.39        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.27        |
| tblVehicleEF | OBUS | 0.99        | 1.14        |
| tblVehicleEF | OBUS | 6.84        | 7.25        |
| tblVehicleEF | OBUS | 56.81       | 56.36       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.27        |
| tblVehicleEF | OBUS | 1.06        | 1.23        |
| tblVehicleEF | OBUS | 1.73        | 1.80        |
| tblVehicleEF | OBUS | 8.6000e-005 | 1.2600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 8.2000e-005 | 1.2100e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.07        | 0.07        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.42        | 0.44        |
| tblVehicleEF | OBUS | 5.5500e-004 | 5.5100e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.4200e-004 | 8.5300e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.46        | 0.49        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.26        |
| tblVehicleEF | OBUS | 1.02        | 1.18        |
| tblVehicleEF | OBUS | 6.15        | 6.53        |
| tblVehicleEF | OBUS | 59.14       | 58.65       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.28        |
| tblVehicleEF | OBUS | 0.98        | 1.13        |
| tblVehicleEF | OBUS | 1.65        | 1.72        |
| tblVehicleEF | OBUS | 7.2000e-005 | 1.0600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 6.9000e-005 | 1.0200e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.07        | 0.08        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.39        | 0.41        |
| tblVehicleEF | OBUS | 5.7700e-004 | 5.7200e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.3100e-004 | 8.4100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.43        | 0.45        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 0.27        | 0.28        |
| tblVehicleEF | OBUS | 0.95        | 1.10        |
| tblVehicleEF | OBUS | 7.73        | 8.20        |
| tblVehicleEF | OBUS | 53.61       | 53.20       |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.23        | 0.26        |
| tblVehicleEF | OBUS | 1.10        | 1.28        |
| tblVehicleEF | OBUS | 1.82        | 1.90        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 1.0000e-004 | 1.4700e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.04        | 0.04        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.07        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.45        | 0.48        |
| tblVehicleEF | OBUS | 5.2400e-004 | 5.2000e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.5700e-004 | 8.7000e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.50        | 0.53        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.09        |
| tblVehicleEF | SBUS | 8.09        | 8.04        |
| tblVehicleEF | SBUS | 1.17        | 1.27        |
| tblVehicleEF | SBUS | 9.98        | 10.40       |
| tblVehicleEF | SBUS | 1,131.62    | 1,141.47    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.84        | 10.42       |
| tblVehicleEF | SBUS | 4.13        | 4.46        |
| tblVehicleEF | SBUS | 12.34       | 12.52       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.49        | 0.51        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 9.9880e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.2600e-004 | 7.2500e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.39        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.54        | 0.56        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.07        | 0.07        |
| tblVehicleEF | SBUS | 7.97        | 7.91        |
| tblVehicleEF | SBUS | 1.20        | 1.31        |
| tblVehicleEF | SBUS | 6.79        | 7.08        |
| tblVehicleEF | SBUS | 1,182.62    | 1,193.28    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 10.15       | 10.75       |
| tblVehicleEF | SBUS | 3.85        | 4.16        |
| tblVehicleEF | SBUS | 12.28       | 12.46       |
| tblVehicleEF | SBUS | 8.9840e-003 | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 8.5950e-003 | 9.6740e-003 |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 0.96        | 0.96        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.13        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.40        | 0.41        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9890e-003 | 0.01        |
| tblVehicleEF | SBUS | 6.7300e-004 | 6.7000e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 1.39        | 1.39        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.44        | 0.45        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.10        | 0.11        |
| tblVehicleEF | SBUS | 8.26        | 8.22        |
| tblVehicleEF | SBUS | 1.13        | 1.23        |
| tblVehicleEF | SBUS | 14.04       | 14.62       |
| tblVehicleEF | SBUS | 1,061.20    | 1,069.93    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.40        | 9.96        |
| tblVehicleEF | SBUS | 4.23        | 4.57        |
| tblVehicleEF | SBUS | 12.40       | 12.59       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.60        | 0.62        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9870e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.9300e-004 | 7.9500e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.40        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.14        | 0.15        |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.65        | 0.68        |
| tblVehicleEF | UBUS | 2.00        | 2.14        |
| tblVehicleEF | UBUS | 0.06        | 0.05        |
| tblVehicleEF | UBUS | 8.64        | 9.10        |
| tblVehicleEF | UBUS | 10.06       | 9.98        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.88        | 7.49        |
| tblVehicleEF | UBUS | 14.69       | 14.96       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |
| tblVehicleEF | UBUS | 0.63        | 0.67        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.75        | 0.74        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2710e-003 | 1.2310e-003 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 2.70        | 2.89        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.82        | 0.81        |
| tblVehicleEF | UBUS | 2.01        | 2.14        |
| tblVehicleEF | UBUS | 0.05        | 0.05        |
| tblVehicleEF | UBUS | 8.72        | 9.17        |
| tblVehicleEF | UBUS | 7.82        | 7.76        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.42        | 6.99        |
| tblVehicleEF | UBUS | 14.61       | 14.88       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 0.64        | 0.69        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.65        | 0.64        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2320e-003 | 1.1920e-003 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 2.72        | 2.91        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.71        | 0.70        |
| tblVehicleEF | UBUS | 2.00        | 2.13        |
| tblVehicleEF | UBUS | 0.07        | 0.06        |
| tblVehicleEF | UBUS | 8.57        | 9.02        |
| tblVehicleEF | UBUS | 13.20       | 13.11       |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 7.04        | 7.66        |
| tblVehicleEF | UBUS | 14.80       | 15.07       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 0.62        | 0.66        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.89        | 0.88        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.3240e-003 | 1.2840e-003 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 2.68        | 2.87        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.97        | 0.96        |

**2.0 Emissions Summary**

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**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |
| 2            | File Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Crawler Tractors          | 2      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Graders                   | 1      | 10.00       | 187         | 0.41        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |

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**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 5                       | 13.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 6.20                | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.9779        | 0.0000        | 2.9779        | 0.4199         | 0.0000        | 0.4199        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.2083        | 37.3386        | 15.7648        | 0.0476        |               | 1.4761        | 1.4761        |                | 1.3580        | 1.3580        |          | 4,610.3674        | 4,610.3674        | 1.4911        |     | 4,647.6445        |
| <b>Total</b>  | <b>3.2083</b> | <b>37.3386</b> | <b>15.7648</b> | <b>0.0476</b> | <b>2.9779</b> | <b>1.4761</b> | <b>4.4540</b> | <b>0.4199</b>  | <b>1.3580</b> | <b>1.7779</b> |          | <b>4,610.3674</b> | <b>4,610.3674</b> | <b>1.4911</b> |     | <b>4,647.6445</b> |

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**3.2 Site Restoration - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0198        | 4.1100e-003        | 0.0555        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 8.0000e-005        | 1.3000e-004        |          | 3.0523        | 3.0523        | 2.9000e-004        |     | 3.0596        |
| <b>Total</b> | <b>0.0198</b> | <b>4.1100e-003</b> | <b>0.0555</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>8.0000e-005</b> | <b>1.3000e-004</b> |          | <b>3.0523</b> | <b>3.0523</b> | <b>2.9000e-004</b> |     | <b>3.0596</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.3401        | 0.0000        | 1.3401        | 0.1890         | 0.0000        | 0.1890        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.2083        | 37.3386        | 15.7648        | 0.0476        |               | 1.4761        | 1.4761        |                | 1.3580        | 1.3580        | 0.0000        | 4,610.3674        | 4,610.3674        | 1.4911        |     | 4,647.6445        |
| <b>Total</b>  | <b>3.2083</b> | <b>37.3386</b> | <b>15.7648</b> | <b>0.0476</b> | <b>1.3401</b> | <b>1.4761</b> | <b>2.8161</b> | <b>0.1890</b>  | <b>1.3580</b> | <b>1.5469</b> | <b>0.0000</b> | <b>4,610.3674</b> | <b>4,610.3674</b> | <b>1.4911</b> |     | <b>4,647.6445</b> |

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**3.2 Site Restoration - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0198        | 4.1100e-003        | 0.0555        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 8.0000e-005        | 1.3000e-004        |          | 3.0523        | 3.0523        | 2.9000e-004        |     | 3.0596        |
| <b>Total</b> | <b>0.0198</b> | <b>4.1100e-003</b> | <b>0.0555</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>8.0000e-005</b> | <b>1.3000e-004</b> |          | <b>3.0523</b> | <b>3.0523</b> | <b>2.9000e-004</b> |     | <b>3.0596</b> |

**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.9779        | 0.0000        | 2.9779        | 0.4199         | 0.0000        | 0.4199        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.9866        | 33.9765        | 15.2409        | 0.0476        |               | 1.3205        | 1.3205        |                | 1.2148        | 1.2148        |          | 4,608.8845        | 4,608.8845        | 1.4906        |     | 4,646.1497        |
| <b>Total</b>  | <b>2.9866</b> | <b>33.9765</b> | <b>15.2409</b> | <b>0.0476</b> | <b>2.9779</b> | <b>1.3205</b> | <b>4.2984</b> | <b>0.4199</b>  | <b>1.2148</b> | <b>1.6347</b> |          | <b>4,608.8845</b> | <b>4,608.8845</b> | <b>1.4906</b> |     | <b>4,646.1497</b> |

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**3.2 Site Restoration - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0183        | 3.6200e-003        | 0.0499        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 7.0000e-005        | 1.3000e-004        |          | 2.9571        | 2.9571        | 2.6000e-004        |     | 2.9635        |
| <b>Total</b> | <b>0.0183</b> | <b>3.6200e-003</b> | <b>0.0499</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>7.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.9571</b> | <b>2.9571</b> | <b>2.6000e-004</b> |     | <b>2.9635</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.3401        | 0.0000        | 1.3401        | 0.1890         | 0.0000        | 0.1890        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.9866        | 33.9765        | 15.2409        | 0.0476        |               | 1.3205        | 1.3205        |                | 1.2148        | 1.2148        | 0.0000        | 4,608.8845        | 4,608.8845        | 1.4906        |     | 4,646.1496        |
| <b>Total</b>  | <b>2.9866</b> | <b>33.9765</b> | <b>15.2409</b> | <b>0.0476</b> | <b>1.3401</b> | <b>1.3205</b> | <b>2.6605</b> | <b>0.1890</b>  | <b>1.2148</b> | <b>1.4038</b> | <b>0.0000</b> | <b>4,608.8845</b> | <b>4,608.8845</b> | <b>1.4906</b> |     | <b>4,646.1496</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0183        | 3.6200e-003        | 0.0499        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 7.0000e-005        | 1.3000e-004        |          | 2.9571        | 2.9571        | 2.6000e-004        |     | 2.9635        |
| <b>Total</b> | <b>0.0183</b> | <b>3.6200e-003</b> | <b>0.0499</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>7.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.9571</b> | <b>2.9571</b> | <b>2.6000e-004</b> |     | <b>2.9635</b> |

**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.2107        | 47.7879        | 6.1387        | 0.1091        | 2.4852        | 0.1069        | 2.5920        | 0.6581         | 0.1022        | 0.7604        |          | 11,430.4397        | 11,430.4397        | 0.9476        |     | 11,454.1307        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3952        | 0.2267         | 2.9584        | 9.0500e-003   | 0.8517        | 5.6100e-003   | 0.8573        | 0.2259         | 5.1700e-003   | 0.2311        |          | 901.7516           | 901.7516           | 0.0224        |     | 902.3122           |
| <b>Total</b> | <b>1.6059</b> | <b>48.0146</b> | <b>9.0970</b> | <b>0.1181</b> | <b>3.3368</b> | <b>0.1125</b> | <b>3.4493</b> | <b>0.8840</b>  | <b>0.1074</b> | <b>0.9914</b> |          | <b>12,332.1913</b> | <b>12,332.1913</b> | <b>0.9701</b> |     | <b>12,356.4429</b> |

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**3.3 File Material Hauling - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.2107        | 47.7879        | 6.1387        | 0.1091        | 2.2984        | 0.1069        | 2.4052        | 0.6123         | 0.1022        | 0.7145        |          | 11,430.4397        | 11,430.4397        | 0.9476        |     | 11,454.1307        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3952        | 0.2267         | 2.9584        | 9.0500e-003   | 0.7850        | 5.6100e-003   | 0.7907        | 0.2095         | 5.1700e-003   | 0.2147        |          | 901.7516           | 901.7516           | 0.0224        |     | 902.3122           |
| <b>Total</b> | <b>1.6059</b> | <b>48.0146</b> | <b>9.0970</b> | <b>0.1181</b> | <b>3.0834</b> | <b>0.1125</b> | <b>3.1959</b> | <b>0.8218</b>  | <b>0.1074</b> | <b>0.9292</b> |          | <b>12,332.1913</b> | <b>12,332.1913</b> | <b>0.9701</b> |     | <b>12,356.4429</b> |

**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.1298        | 45.0269        | 5.6996        | 0.1078        | 3.6243        | 0.0933        | 3.7176        | 0.9377         | 0.0893        | 1.0270        |          | 11,299.6283        | 11,299.6283        | 0.9178        |     | 11,322.5744        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3671        | 0.2028         | 2.7074        | 8.7300e-003   | 0.8517        | 5.4500e-003   | 0.8571        | 0.2259         | 5.0200e-003   | 0.2309        |          | 870.2331           | 870.2331           | 0.0201        |     | 870.7354           |
| <b>Total</b> | <b>1.4969</b> | <b>45.2297</b> | <b>8.4070</b> | <b>0.1166</b> | <b>4.4759</b> | <b>0.0988</b> | <b>4.5747</b> | <b>1.1636</b>  | <b>0.0943</b> | <b>1.2579</b> |          | <b>12,169.8614</b> | <b>12,169.8614</b> | <b>0.9379</b> |     | <b>12,193.3098</b> |





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**4.4 Fleet Mix**

| Land Use | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|          | 0.516533 | 0.039972 | 0.192974 | 0.121896 | 0.024730 | 0.005840 | 0.032766 | 0.052716 | 0.001342 | 0.002151 | 0.007335 | 0.000694 | 0.001052 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e   |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |           |           |        |     |        |
| Mitigated   | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 |     | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 |     | 0.0000 |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory           | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

**Mitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory           | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**WSAFCA Southport Levee Improvement Project**  
**Yolo/Solano AQMD Air District, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
|           | 0.00 |        | 0.00        | 0.00               | 0          |

**1.2 Other Project Characteristics**

|                                 |       |                                 |     |                                  |      |
|---------------------------------|-------|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban | <b>Wind Speed (m/s)</b>         | 6.8 | <b>Precipitation Freq (Days)</b> | 55   |
| <b>Climate Zone</b>             | 2     |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          |       |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 0     | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

Project Characteristics - This file reflects responses to comments frm the SMAQMD. Changes made 11-19-19.

Land Use -

Construction Phase - per 8/4/19 8:35 p.m. Email message.

Off-road Equipment - Set values to zero to avoid CalEEMod using default equipment set.

Off-road Equipment - Assuming equipment will operate 10 hours per day.

Trips and VMT - No truck trips for site restoration, change workers to 80. Hauling trips set to 40,000 11-19-19.

On-road Fugitive Dust - 100% paving

Grading - Grading at Area's: A1, A3, A4, and RP2. "Material Imported" amount corrected 11-19-19.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Area Coating -

Landscape Equipment -

Construction Off-road Equipment Mitigation - Water exposed area's 2 times a day. Change vehicle speed to 15 mph. Engine Tier & Oxidation Catalyst corrected 11-19-19.

Area Mitigation -

Fleet Mix -

Energy Use -

| Table Name             | Column Name                               | Default Value | New Value |
|------------------------|---|---------------|-----------|
| tblAreaMitigation      | UseLowVOCPaintNonresidentialExteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintNonresidentialInteriorValue | 150           | 100       |
| tblAreaMitigation      | UseLowVOCPaintParkingValue                | 150           | 100       |
| tblConstDustMitigation | CleanPavedRoadPercentReduction            | 0             | 9         |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent           | 0             | 0.5       |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed              | 0             | 15        |

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|                         |                            |             |             |
|-------------------------|----------------------------|-------------|-------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 2.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00        | 1.00        |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDays                    | 0.00        | 130.00      |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblConstructionPhase    | NumDaysWeek                | 5.00        | 6.00        |
| tblFleetMix             | HHD                        | 0.05        | 0.05        |
| tblFleetMix             | LDA                        | 0.52        | 0.52        |
| tblFleetMix             | LDT1                       | 0.04        | 0.04        |
| tblFleetMix             | LDT2                       | 0.19        | 0.19        |
| tblFleetMix             | LHD1                       | 0.02        | 0.02        |
| tblFleetMix             | LHD2                       | 5.6350e-003 | 5.8400e-003 |
| tblFleetMix             | MCY                        | 7.1040e-003 | 7.3350e-003 |
| tblFleetMix             | MDV                        | 0.12        | 0.12        |
| tblFleetMix             | MH                         | 9.8700e-004 | 1.0520e-003 |
| tblFleetMix             | MHD                        | 0.03        | 0.03        |
| tblFleetMix             | OBUS                       | 1.3360e-003 | 1.3420e-003 |
| tblFleetMix             | SBUS                       | 6.9100e-004 | 6.9400e-004 |
| tblFleetMix             | UBUS                       | 2.0700e-003 | 2.1510e-003 |
| tblGrading              | AcresOfGrading             | 243.75      | 87.60       |
| tblGrading              | MaterialImported           | 0.00        | 600,000.00  |
| tblOffRoadEquipment     | HorsePower                 | 81.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 231.00      | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 89.00       | 0.00        |
| tblOffRoadEquipment     | HorsePower                 | 247.00      | 0.00        |

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|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 0.00   |
| tblOffRoadEquipment | HorsePower                 | 158.00 | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.73   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.29   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.20   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.40   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.37   | 0.00   |
| tblOffRoadEquipment | LoadFactor                 | 0.38   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 4.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 1.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 8.00   | 0.00   |
| tblOffRoadEquipment | UsageHours                 | 6.00   | 0.00   |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | HaulingPercentPave         | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | VendorPercentPave          | 94.00  | 100.00 |
| tblOnRoadDust       | WorkerPercentPave          | 94.00  | 100.00 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|                |                   |             |             |
|----------------|-------------------|-------------|-------------|
| tblOnRoadDust  | WorkerPercentPave | 94.00       | 100.00      |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 0.00        |
| tblTripsAndVMT | HaulingTripLength | 20.00       | 6.20        |
| tblTripsAndVMT | HaulingTripNumber | 75,000.00   | 0.00        |
| tblTripsAndVMT | HaulingTripNumber | 0.00        | 40,000.00   |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 0.00        |
| tblTripsAndVMT | VendorTripLength  | 7.00        | 6.50        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 0.00        |
| tblTripsAndVMT | WorkerTripLength  | 10.00       | 14.00       |
| tblTripsAndVMT | WorkerTripNumber  | 0.00        | 80.00       |
| tblVehicleEF   | HHD               | 1.26        | 1.27        |
| tblVehicleEF   | HHD               | 8.3200e-003 | 9.0630e-003 |
| tblVehicleEF   | HHD               | 0.12        | 0.15        |
| tblVehicleEF   | HHD               | 3.33        | 3.51        |
| tblVehicleEF   | HHD               | 0.69        | 0.72        |
| tblVehicleEF   | HHD               | 1.75        | 2.08        |
| tblVehicleEF   | HHD               | 6,182.38    | 6,249.03    |
| tblVehicleEF   | HHD               | 1,604.14    | 1,623.71    |
| tblVehicleEF   | HHD               | 4.76        | 5.39        |
| tblVehicleEF   | HHD               | 25.54       | 27.06       |
| tblVehicleEF   | HHD               | 3.32        | 3.75        |
| tblVehicleEF   | HHD               | 20.31       | 20.29       |
| tblVehicleEF   | HHD               | 0.03        | 0.04        |
| tblVehicleEF   | HHD               | 0.06        | 0.06        |
| tblVehicleEF   | HHD               | 0.04        | 0.04        |
| tblVehicleEF   | HHD               | 0.02        | 0.02        |
| tblVehicleEF   | HHD               | 5.3000e-005 | 1.0300e-004 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.03        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 0.90        | 0.95        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.7000e-005 | 8.9000e-005 |
| tblVehicleEF | HHD | 6.8000e-005 | 9.1000e-005 |
| tblVehicleEF | HHD | 2.9160e-003 | 4.7060e-003 |
| tblVehicleEF | HHD | 1.02        | 1.08        |
| tblVehicleEF | HHD | 3.9000e-005 | 5.1000e-005 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9300e-004 | 4.1800e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 1.19        | 1.20        |
| tblVehicleEF | HHD | 8.3500e-003 | 9.0970e-003 |
| tblVehicleEF | HHD | 0.11        | 0.14        |
| tblVehicleEF | HHD | 2.43        | 2.57        |
| tblVehicleEF | HHD | 0.69        | 0.72        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.61        | 1.93        |
| tblVehicleEF | HHD | 6,546.79    | 6,615.68    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 26.36       | 27.91       |
| tblVehicleEF | HHD | 3.13        | 3.53        |
| tblVehicleEF | HHD | 20.30       | 20.28       |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.85        | 0.89        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 7.4000e-005 | 8.6000e-005 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 1.8300e-004 | 2.4800e-004 |
| tblVehicleEF | HHD | 3.3830e-003 | 5.5280e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 9.9000e-005 | 1.3500e-004 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 2.9800e-004 | 4.3000e-004 |
| tblVehicleEF | HHD | 0.05        | 0.07        |
| tblVehicleEF | HHD | 1.36        | 1.37        |
| tblVehicleEF | HHD | 8.2870e-003 | 9.0260e-003 |
| tblVehicleEF | HHD | 0.13        | 0.17        |
| tblVehicleEF | HHD | 4.58        | 4.82        |
| tblVehicleEF | HHD | 0.68        | 0.71        |
| tblVehicleEF | HHD | 1.98        | 2.35        |
| tblVehicleEF | HHD | 5,679.15    | 5,742.69    |
| tblVehicleEF | HHD | 1,604.14    | 1,623.71    |
| tblVehicleEF | HHD | 4.76        | 5.39        |
| tblVehicleEF | HHD | 24.42       | 25.87       |
| tblVehicleEF | HHD | 3.39        | 3.83        |
| tblVehicleEF | HHD | 20.32       | 20.30       |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.06        | 0.06        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 5.3000e-005 | 1.0300e-004 |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8170e-003 | 8.8220e-003 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 4.9000e-005 | 9.6000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 0.97        | 1.02        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.12        | 0.13        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 0.05        | 0.05        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 8.0000e-005 | 9.3000e-005 |
| tblVehicleEF | HHD | 2.0000e-005 | 2.5000e-005 |
| tblVehicleEF | HHD | 3.0000e-003 | 5.1120e-003 |
| tblVehicleEF | HHD | 1.10        | 1.16        |
| tblVehicleEF | HHD | 7.0000e-006 | 9.0000e-006 |
| tblVehicleEF | HHD | 0.14        | 0.15        |
| tblVehicleEF | HHD | 3.1800e-004 | 4.5200e-004 |
| tblVehicleEF | HHD | 0.06        | 0.09        |
| tblVehicleEF | LDA | 4.6710e-003 | 5.1960e-003 |
| tblVehicleEF | LDA | 6.3160e-003 | 7.2910e-003 |
| tblVehicleEF | LDA | 0.58        | 0.63        |
| tblVehicleEF | LDA | 1.33        | 1.48        |
| tblVehicleEF | LDA | 273.66      | 284.76      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.06        |
| tblVehicleEF | LDA | 0.08        | 0.09        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.01        | 0.01        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.10        |
| tblVehicleEF | LDA | 2.7400e-003 | 2.8510e-003 |
| tblVehicleEF | LDA | 6.1500e-004 | 6.3900e-004 |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.11        | 0.12        |
| tblVehicleEF | LDA | 0.03        | 0.03        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 5.3900e-003 | 5.9980e-003 |
| tblVehicleEF | LDA | 5.1510e-003 | 5.9470e-003 |
| tblVehicleEF | LDA | 0.73        | 0.79        |
| tblVehicleEF | LDA | 1.07        | 1.20        |
| tblVehicleEF | LDA | 301.40      | 313.66      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.05        | 0.06        |
| tblVehicleEF | LDA | 0.07        | 0.09        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |
| tblVehicleEF | LDA | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.01        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.07        | 0.08        |
| tblVehicleEF | LDA | 3.0190e-003 | 3.1420e-003 |
| tblVehicleEF | LDA | 6.1100e-004 | 6.3400e-004 |
| tblVehicleEF | LDA | 0.10        | 0.11        |
| tblVehicleEF | LDA | 0.13        | 0.14        |
| tblVehicleEF | LDA | 0.08        | 0.08        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.08        | 0.09        |
| tblVehicleEF | LDA | 4.4570e-003 | 4.9650e-003 |
| tblVehicleEF | LDA | 7.6410e-003 | 8.8260e-003 |
| tblVehicleEF | LDA | 0.56        | 0.60        |
| tblVehicleEF | LDA | 1.67        | 1.87        |
| tblVehicleEF | LDA | 266.60      | 277.40      |
| tblVehicleEF | LDA | 59.28       | 61.37       |
| tblVehicleEF | LDA | 0.06        | 0.07        |
| tblVehicleEF | LDA | 0.09        | 0.11        |
| tblVehicleEF | LDA | 1.8670e-003 | 1.9140e-003 |
| tblVehicleEF | LDA | 2.3020e-003 | 2.3200e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDA  | 1.7220e-003 | 1.7660e-003 |
| tblVehicleEF | LDA  | 2.1170e-003 | 2.1330e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.10        | 0.12        |
| tblVehicleEF | LDA  | 2.6690e-003 | 2.7780e-003 |
| tblVehicleEF | LDA  | 6.2100e-004 | 6.4600e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.01        |
| tblVehicleEF | LDA  | 0.11        | 0.12        |
| tblVehicleEF | LDA  | 6.3410e-003 | 6.8250e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.05        | 0.05        |
| tblVehicleEF | LDA  | 0.11        | 0.13        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.24        | 1.38        |
| tblVehicleEF | LDT1 | 3.64        | 4.05        |
| tblVehicleEF | LDT1 | 332.25      | 342.70      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.13        | 0.15        |
| tblVehicleEF | LDT1 | 0.20        | 0.23        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.25        | 0.28        |
| tblVehicleEF | LDT1 | 3.3370e-003 | 3.4430e-003 |
| tblVehicleEF | LDT1 | 7.9700e-004 | 8.2100e-004 |
| tblVehicleEF | LDT1 | 0.15        | 0.15        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.10        | 0.11        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.20        | 0.21        |
| tblVehicleEF | LDT1 | 0.28        | 0.31        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 1.52        | 1.68        |
| tblVehicleEF | LDT1 | 2.93        | 3.25        |
| tblVehicleEF | LDT1 | 364.69      | 376.09      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.12        | 0.13        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.21        | 0.23        |
| tblVehicleEF | LDT1 | 3.6650e-003 | 3.7820e-003 |
| tblVehicleEF | LDT1 | 7.8400e-004 | 8.0700e-004 |
| tblVehicleEF | LDT1 | 0.38        | 0.41        |
| tblVehicleEF | LDT1 | 0.40        | 0.43        |
| tblVehicleEF | LDT1 | 0.25        | 0.27        |
| tblVehicleEF | LDT1 | 0.04        | 0.05        |
| tblVehicleEF | LDT1 | 0.19        | 0.21        |
| tblVehicleEF | LDT1 | 0.22        | 0.25        |
| tblVehicleEF | LDT1 | 0.01        | 0.01        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 1.21        | 1.34        |
| tblVehicleEF | LDT1 | 4.62        | 5.15        |
| tblVehicleEF | LDT1 | 323.92      | 334.13      |
| tblVehicleEF | LDT1 | 73.24       | 74.92       |
| tblVehicleEF | LDT1 | 0.15        | 0.17        |
| tblVehicleEF | LDT1 | 0.23        | 0.26        |
| tblVehicleEF | LDT1 | 2.5540e-003 | 2.6990e-003 |
| tblVehicleEF | LDT1 | 3.6300e-003 | 3.8350e-003 |
| tblVehicleEF | LDT1 | 2.3530e-003 | 2.4870e-003 |
| tblVehicleEF | LDT1 | 3.3390e-003 | 3.5270e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.03        | 0.03        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.31        | 0.35        |
| tblVehicleEF | LDT1 | 3.2530e-003 | 3.3570e-003 |
| tblVehicleEF | LDT1 | 8.1400e-004 | 8.4000e-004 |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.32        | 0.34        |
| tblVehicleEF | LDT1 | 0.02        | 0.02        |
| tblVehicleEF | LDT1 | 0.04        | 0.04        |
| tblVehicleEF | LDT1 | 0.24        | 0.26        |
| tblVehicleEF | LDT1 | 0.34        | 0.38        |
| tblVehicleEF | LDT2 | 6.0170e-003 | 6.5820e-003 |
| tblVehicleEF | LDT2 | 8.9770e-003 | 0.01        |
| tblVehicleEF | LDT2 | 0.73        | 0.79        |
| tblVehicleEF | LDT2 | 1.86        | 2.07        |
| tblVehicleEF | LDT2 | 375.31      | 388.22      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.18        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.12        | 0.14        |
| tblVehicleEF | LDT2 | 3.7580e-003 | 3.8880e-003 |
| tblVehicleEF | LDT2 | 8.6000e-004 | 8.8800e-004 |
| tblVehicleEF | LDT2 | 0.06        | 0.06        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 0.05        | 0.05        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.13        | 0.15        |
| tblVehicleEF | LDT2 | 6.9250e-003 | 7.5730e-003 |
| tblVehicleEF | LDT2 | 7.3220e-003 | 8.3000e-003 |
| tblVehicleEF | LDT2 | 0.91        | 0.98        |
| tblVehicleEF | LDT2 | 1.50        | 1.67        |
| tblVehicleEF | LDT2 | 412.78      | 426.98      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.07        | 0.08        |
| tblVehicleEF | LDT2 | 0.14        | 0.16        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.10        | 0.11        |
| tblVehicleEF | LDT2 | 4.1350e-003 | 4.2780e-003 |
| tblVehicleEF | LDT2 | 8.5400e-004 | 8.8100e-004 |
| tblVehicleEF | LDT2 | 0.14        | 0.15        |
| tblVehicleEF | LDT2 | 0.16        | 0.17        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 0.03        | 0.03        |
| tblVehicleEF | LDT2 | 0.07        | 0.07        |
| tblVehicleEF | LDT2 | 0.11        | 0.12        |
| tblVehicleEF | LDT2 | 5.7290e-003 | 6.2720e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.01        |
| tblVehicleEF | LDT2 | 0.70        | 0.76        |
| tblVehicleEF | LDT2 | 2.34        | 2.60        |
| tblVehicleEF | LDT2 | 365.68      | 378.26      |
| tblVehicleEF | LDT2 | 82.88       | 85.29       |
| tblVehicleEF | LDT2 | 0.09        | 0.10        |
| tblVehicleEF | LDT2 | 0.17        | 0.20        |
| tblVehicleEF | LDT2 | 1.7330e-003 | 1.7380e-003 |
| tblVehicleEF | LDT2 | 2.3260e-003 | 2.3270e-003 |
| tblVehicleEF | LDT2 | 1.5940e-003 | 1.5990e-003 |
| tblVehicleEF | LDT2 | 2.1390e-003 | 2.1400e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.01        | 0.02        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.15        | 0.17        |
| tblVehicleEF | LDT2 | 3.6610e-003 | 3.7880e-003 |
| tblVehicleEF | LDT2 | 8.6900e-004 | 8.9800e-004 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.14        |
| tblVehicleEF | LDT2 | 9.6250e-003 | 9.9200e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.08        | 0.09        |
| tblVehicleEF | LDT2 | 0.16        | 0.18        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.33        | 1.41        |
| tblVehicleEF | LHD1 | 2.43        | 2.55        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.41        | 2.52        |
| tblVehicleEF | LHD1 | 0.90        | 0.92        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.25        | 0.27        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1700e-004 | 3.2300e-004 |
| tblVehicleEF | LHD1 | 2.6940e-003 | 2.7180e-003 |
| tblVehicleEF | LHD1 | 0.09        | 0.09        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.2770e-003 | 1.2730e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.28        | 0.29        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.35        | 1.44        |
| tblVehicleEF | LHD1 | 2.23        | 2.35        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.25        | 2.36        |
| tblVehicleEF | LHD1 | 0.84        | 0.86        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.17        | 0.17        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |
| tblVehicleEF | LHD1 | 0.24        | 0.25        |
| tblVehicleEF | LHD1 | 6.7550e-003 | 6.8010e-003 |
| tblVehicleEF | LHD1 | 3.1300e-004 | 3.2000e-004 |
| tblVehicleEF | LHD1 | 6.9510e-003 | 7.0500e-003 |
| tblVehicleEF | LHD1 | 0.11        | 0.11        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.0690e-003 | 3.0940e-003 |
| tblVehicleEF | LHD1 | 0.20        | 0.21        |
| tblVehicleEF | LHD1 | 0.29        | 0.29        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.26        | 0.27        |
| tblVehicleEF | LHD1 | 4.8600e-003 | 5.0120e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.14        | 0.14        |
| tblVehicleEF | LHD1 | 1.30        | 1.38        |
| tblVehicleEF | LHD1 | 2.71        | 2.86        |
| tblVehicleEF | LHD1 | 9.50        | 9.50        |
| tblVehicleEF | LHD1 | 690.04      | 694.49      |
| tblVehicleEF | LHD1 | 27.08       | 27.50       |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 2.47        | 2.58        |
| tblVehicleEF | LHD1 | 0.98        | 1.00        |
| tblVehicleEF | LHD1 | 1.1430e-003 | 1.1450e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 8.6600e-004 | 9.2900e-004 |
| tblVehicleEF | LHD1 | 1.0940e-003 | 1.0950e-003 |
| tblVehicleEF | LHD1 | 2.5830e-003 | 2.5770e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 7.9600e-004 | 8.5500e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.16        | 0.17        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.27        | 0.29        |
| tblVehicleEF | LHD1 | 6.7540e-003 | 6.8000e-003 |
| tblVehicleEF | LHD1 | 3.2200e-004 | 3.2900e-004 |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.8400e-004 |
| tblVehicleEF | LHD1 | 0.10        | 0.10        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 2.7700e-004 | 2.7100e-004 |
| tblVehicleEF | LHD1 | 0.20        | 0.20        |
| tblVehicleEF | LHD1 | 0.32        | 0.32        |
| tblVehicleEF | LHD1 | 0.30        | 0.32        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.6680e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.0550e-003 | 9.0190e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.80        |
| tblVehicleEF | LHD2 | 1.18        | 1.27        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.54        | 1.72        |
| tblVehicleEF | LHD2 | 0.50        | 0.53        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.11        | 0.12        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4600e-004 | 2.5100e-004 |
| tblVehicleEF | LHD2 | 9.9400e-004 | 1.0650e-003 |
| tblVehicleEF | LHD2 | 0.03        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 5.0300e-004 | 5.2700e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.8150e-003 | 0.01        |
| tblVehicleEF | LHD2 | 7.5830e-003 | 8.4830e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.74        | 0.81        |
| tblVehicleEF | LHD2 | 1.09        | 1.18        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.44        | 1.61        |
| tblVehicleEF | LHD2 | 0.47        | 0.50        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |
| tblVehicleEF | LHD2 | 0.10        | 0.11        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4400e-004 | 2.4900e-004 |
| tblVehicleEF | LHD2 | 2.5460e-003 | 2.7440e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1870e-003 | 1.2620e-003 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.08        | 0.08        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.11        | 0.13        |
| tblVehicleEF | LHD2 | 3.4730e-003 | 3.6140e-003 |
| tblVehicleEF | LHD2 | 9.5020e-003 | 0.01        |
| tblVehicleEF | LHD2 | 8.6460e-003 | 9.7000e-003 |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.73        | 0.79        |
| tblVehicleEF | LHD2 | 1.31        | 1.41        |
| tblVehicleEF | LHD2 | 14.66       | 14.72       |
| tblVehicleEF | LHD2 | 720.81      | 727.29      |
| tblVehicleEF | LHD2 | 22.44       | 22.72       |
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 1.57        | 1.76        |
| tblVehicleEF | LHD2 | 0.55        | 0.57        |
| tblVehicleEF | LHD2 | 1.3930e-003 | 1.4120e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.7200e-004 | 4.1000e-004 |
| tblVehicleEF | LHD2 | 1.3320e-003 | 1.3510e-003 |
| tblVehicleEF | LHD2 | 2.7080e-003 | 2.7060e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.4200e-004 | 3.7700e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.12        | 0.13        |
| tblVehicleEF | LHD2 | 7.0030e-003 | 7.0670e-003 |
| tblVehicleEF | LHD2 | 2.4800e-004 | 2.5300e-004 |
| tblVehicleEF | LHD2 | 3.1100e-004 | 3.2400e-004 |
| tblVehicleEF | LHD2 | 0.04        | 0.04        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 1.1300e-004 | 1.1600e-004 |
| tblVehicleEF | LHD2 | 0.15        | 0.16        |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |
| tblVehicleEF | LHD2 | 0.13        | 0.14        |
| tblVehicleEF | MCY  | 0.46        | 0.45        |
| tblVehicleEF | MCY  | 0.17        | 0.17        |
| tblVehicleEF | MCY  | 23.13       | 24.13       |
| tblVehicleEF | MCY  | 10.15       | 10.13       |
| tblVehicleEF | MCY  | 177.24      | 176.24      |
| tblVehicleEF | MCY  | 47.77       | 48.16       |
| tblVehicleEF | MCY  | 1.20        | 1.21        |
| tblVehicleEF | MCY  | 0.32        | 0.32        |
| tblVehicleEF | MCY  | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY  | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY  | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY  | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY  | 1.21        | 1.21        |
| tblVehicleEF | MCY  | 0.91        | 0.92        |
| tblVehicleEF | MCY  | 0.67        | 0.67        |
| tblVehicleEF | MCY  | 2.52        | 2.58        |
| tblVehicleEF | MCY  | 0.58        | 0.58        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.29        | 2.31        |
| tblVehicleEF | MCY | 2.2220e-003 | 2.2290e-003 |
| tblVehicleEF | MCY | 7.1100e-004 | 7.1500e-004 |
| tblVehicleEF | MCY | 1.21        | 1.21        |
| tblVehicleEF | MCY | 0.91        | 0.92        |
| tblVehicleEF | MCY | 0.67        | 0.67        |
| tblVehicleEF | MCY | 3.06        | 3.12        |
| tblVehicleEF | MCY | 0.58        | 0.58        |
| tblVehicleEF | MCY | 2.49        | 2.51        |
| tblVehicleEF | MCY | 0.45        | 0.44        |
| tblVehicleEF | MCY | 0.14        | 0.14        |
| tblVehicleEF | MCY | 22.95       | 23.91       |
| tblVehicleEF | MCY | 9.10        | 9.11        |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.01        | 1.02        |
| tblVehicleEF | MCY | 0.29        | 0.29        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.42        | 2.47        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 1.91        | 1.92        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 2.2160e-003 | 2.2220e-003 |
| tblVehicleEF | MCY | 6.8200e-004 | 6.8700e-004 |
| tblVehicleEF | MCY | 3.43        | 3.42        |
| tblVehicleEF | MCY | 1.40        | 1.40        |
| tblVehicleEF | MCY | 2.06        | 2.06        |
| tblVehicleEF | MCY | 2.96        | 3.00        |
| tblVehicleEF | MCY | 0.56        | 0.57        |
| tblVehicleEF | MCY | 2.07        | 2.08        |
| tblVehicleEF | MCY | 0.49        | 0.48        |
| tblVehicleEF | MCY | 0.21        | 0.21        |
| tblVehicleEF | MCY | 25.93       | 27.13       |
| tblVehicleEF | MCY | 12.31       | 12.27       |
| tblVehicleEF | MCY | 177.24      | 176.24      |
| tblVehicleEF | MCY | 47.77       | 48.16       |
| tblVehicleEF | MCY | 1.33        | 1.34        |
| tblVehicleEF | MCY | 0.35        | 0.35        |
| tblVehicleEF | MCY | 2.0060e-003 | 1.9610e-003 |
| tblVehicleEF | MCY | 4.0740e-003 | 4.2050e-003 |
| tblVehicleEF | MCY | 1.8820e-003 | 1.8420e-003 |
| tblVehicleEF | MCY | 3.8530e-003 | 3.9810e-003 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 2.70        | 2.77        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 2.88        | 2.91        |
| tblVehicleEF | MCY | 2.2720e-003 | 2.2830e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 7.6400e-004 | 7.6900e-004 |
| tblVehicleEF | MCY | 0.23        | 0.23        |
| tblVehicleEF | MCY | 0.95        | 0.96        |
| tblVehicleEF | MCY | 0.09        | 0.09        |
| tblVehicleEF | MCY | 3.28        | 3.35        |
| tblVehicleEF | MCY | 0.68        | 0.68        |
| tblVehicleEF | MCY | 3.13        | 3.16        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.29        | 1.44        |
| tblVehicleEF | MDV | 3.65        | 3.98        |
| tblVehicleEF | MDV | 512.90      | 527.73      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.17        | 0.19        |
| tblVehicleEF | MDV | 0.33        | 0.36        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.29        | 0.32        |
| tblVehicleEF | MDV | 5.1380e-003 | 5.2880e-003 |
| tblVehicleEF | MDV | 1.1790e-003 | 1.2100e-003 |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.08        | 0.09        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.07        | 0.07        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.31        | 0.35        |
| tblVehicleEF | MDV | 0.01        | 0.02        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 1.59        | 1.77        |
| tblVehicleEF | MDV | 2.96        | 3.24        |
| tblVehicleEF | MDV | 562.53      | 578.81      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.15        | 0.17        |
| tblVehicleEF | MDV | 0.30        | 0.33        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.04        | 0.04        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.23        | 0.26        |
| tblVehicleEF | MDV | 5.6380e-003 | 5.8030e-003 |
| tblVehicleEF | MDV | 1.1660e-003 | 1.1960e-003 |
| tblVehicleEF | MDV | 0.22        | 0.22        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.24        | 0.25        |
| tblVehicleEF | MDV | 0.17        | 0.17        |
| tblVehicleEF | MDV | 0.05        | 0.06        |
| tblVehicleEF | MDV | 0.12        | 0.12        |
| tblVehicleEF | MDV | 0.25        | 0.28        |
| tblVehicleEF | MDV | 0.01        | 0.01        |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 1.26        | 1.42        |
| tblVehicleEF | MDV | 4.58        | 4.99        |
| tblVehicleEF | MDV | 500.17      | 514.63      |
| tblVehicleEF | MDV | 111.41      | 113.91      |
| tblVehicleEF | MDV | 0.19        | 0.21        |
| tblVehicleEF | MDV | 0.37        | 0.41        |
| tblVehicleEF | MDV | 1.8570e-003 | 1.8850e-003 |
| tblVehicleEF | MDV | 2.5460e-003 | 2.6140e-003 |
| tblVehicleEF | MDV | 1.7130e-003 | 1.7400e-003 |
| tblVehicleEF | MDV | 2.3430e-003 | 2.4070e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.03        | 0.04        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.35        | 0.38        |
| tblVehicleEF | MDV | 5.0100e-003 | 5.1570e-003 |
| tblVehicleEF | MDV | 1.1950e-003 | 1.2280e-003 |
| tblVehicleEF | MDV | 0.03        | 0.03        |
| tblVehicleEF | MDV | 0.21        | 0.21        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.02        | 0.02        |
| tblVehicleEF | MDV | 0.05        | 0.05        |
| tblVehicleEF | MDV | 0.15        | 0.15        |
| tblVehicleEF | MDV | 0.38        | 0.42        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 3.12        | 3.74        |
| tblVehicleEF | MH  | 6.72        | 7.26        |
| tblVehicleEF | MH  | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH  | 59.93       | 61.77       |
| tblVehicleEF | MH  | 1.78        | 1.87        |
| tblVehicleEF | MH  | 0.93        | 0.97        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH  | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH  | 1.15        | 1.21        |
| tblVehicleEF | MH  | 0.09        | 0.09        |
| tblVehicleEF | MH  | 0.40        | 0.41        |
| tblVehicleEF | MH  | 0.14        | 0.16        |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.39        | 0.44        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 7.1600e-004 | 7.4500e-004 |
| tblVehicleEF | MH  | 1.15        | 1.21        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 0.09        | 0.09        |
| tblVehicleEF | MH | 0.40        | 0.41        |
| tblVehicleEF | MH | 0.19        | 0.22        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.42        | 0.48        |
| tblVehicleEF | MH | 0.05        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 3.26        | 3.89        |
| tblVehicleEF | MH | 6.00        | 6.53        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.62        | 1.71        |
| tblVehicleEF | MH | 0.87        | 0.90        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.14        | 0.17        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.36        | 0.40        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 7.0400e-004 | 7.3200e-004 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |    |             |             |
|--------------|----|-------------|-------------|
| tblVehicleEF | MH | 3.03        | 3.21        |
| tblVehicleEF | MH | 0.10        | 0.11        |
| tblVehicleEF | MH | 0.96        | 1.01        |
| tblVehicleEF | MH | 0.20        | 0.23        |
| tblVehicleEF | MH | 0.02        | 0.02        |
| tblVehicleEF | MH | 0.39        | 0.44        |
| tblVehicleEF | MH | 0.04        | 0.05        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 2.97        | 3.66        |
| tblVehicleEF | MH | 7.75        | 8.36        |
| tblVehicleEF | MH | 1,237.94    | 1,242.39    |
| tblVehicleEF | MH | 59.93       | 61.77       |
| tblVehicleEF | MH | 1.85        | 1.95        |
| tblVehicleEF | MH | 1.02        | 1.05        |
| tblVehicleEF | MH | 0.01        | 0.01        |
| tblVehicleEF | MH | 0.03        | 0.04        |
| tblVehicleEF | MH | 1.2000e-003 | 1.4610e-003 |
| tblVehicleEF | MH | 3.2190e-003 | 3.2170e-003 |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 1.1040e-003 | 1.3510e-003 |
| tblVehicleEF | MH | 0.34        | 0.35        |
| tblVehicleEF | MH | 0.10        | 0.10        |
| tblVehicleEF | MH | 0.08        | 0.08        |
| tblVehicleEF | MH | 0.13        | 0.16        |
| tblVehicleEF | MH | 0.03        | 0.03        |
| tblVehicleEF | MH | 0.43        | 0.48        |
| tblVehicleEF | MH | 0.01        | 0.01        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MH  | 7.3400e-004 | 7.6400e-004 |
| tblVehicleEF | MH  | 0.34        | 0.35        |
| tblVehicleEF | MH  | 0.10        | 0.10        |
| tblVehicleEF | MH  | 0.08        | 0.08        |
| tblVehicleEF | MH  | 0.18        | 0.21        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.47        | 0.53        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.0130e-003 | 7.8820e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.31        | 0.39        |
| tblVehicleEF | MHD | 0.38        | 0.53        |
| tblVehicleEF | MHD | 4.87        | 5.61        |
| tblVehicleEF | MHD | 189.10      | 189.19      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.77        | 1.11        |
| tblVehicleEF | MHD | 1.50        | 2.01        |
| tblVehicleEF | MHD | 14.63       | 14.44       |
| tblVehicleEF | MHD | 3.7880e-003 | 6.1650e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.6240e-003 | 5.8980e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.29        | 0.33        |
| tblVehicleEF | MHD | 1.8120e-003 | 1.8130e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5900e-004 | 4.8900e-004 |
| tblVehicleEF | MHD | 9.8900e-004 | 1.1520e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 4.5800e-004 | 5.2400e-004 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.32        | 0.36        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 5.1060e-003 | 8.0070e-003 |
| tblVehicleEF | MHD | 0.06        | 0.07        |
| tblVehicleEF | MHD | 0.22        | 0.27        |
| tblVehicleEF | MHD | 0.38        | 0.54        |
| tblVehicleEF | MHD | 4.48        | 5.15        |
| tblVehicleEF | MHD | 200.42      | 200.52      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.80        | 1.15        |
| tblVehicleEF | MHD | 1.41        | 1.89        |
| tblVehicleEF | MHD | 14.59       | 14.40       |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 3.1930e-003 | 5.1970e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 3.0550e-003 | 4.9720e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.03        | 0.03        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.27        | 0.31        |
| tblVehicleEF | MHD | 1.9190e-003 | 1.9200e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.5200e-004 | 4.8100e-004 |
| tblVehicleEF | MHD | 2.6450e-003 | 3.1090e-003 |
| tblVehicleEF | MHD | 0.04        | 0.05        |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 1.1670e-003 | 1.3540e-003 |
| tblVehicleEF | MHD | 0.07        | 0.13        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.30        | 0.34        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 4.9100e-003 | 7.7420e-003 |
| tblVehicleEF | MHD | 0.07        | 0.08        |
| tblVehicleEF | MHD | 0.42        | 0.52        |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MHD | 0.37        | 0.52        |
| tblVehicleEF | MHD | 5.46        | 6.30        |
| tblVehicleEF | MHD | 173.69      | 173.79      |
| tblVehicleEF | MHD | 1,199.39    | 1,204.68    |
| tblVehicleEF | MHD | 37.36       | 39.02       |
| tblVehicleEF | MHD | 0.74        | 1.06        |
| tblVehicleEF | MHD | 1.54        | 2.05        |
| tblVehicleEF | MHD | 14.69       | 14.51       |
| tblVehicleEF | MHD | 4.6090e-003 | 7.5020e-003 |
| tblVehicleEF | MHD | 8.9800e-003 | 0.04        |
| tblVehicleEF | MHD | 6.6900e-004 | 7.5400e-004 |
| tblVehicleEF | MHD | 4.4100e-003 | 7.1770e-003 |
| tblVehicleEF | MHD | 8.5890e-003 | 0.04        |
| tblVehicleEF | MHD | 6.1500e-004 | 6.9300e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.03        | 0.04        |
| tblVehicleEF | MHD | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD | 0.06        | 0.11        |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 0.31        | 0.36        |
| tblVehicleEF | MHD | 1.6660e-003 | 1.6670e-003 |
| tblVehicleEF | MHD | 0.01        | 0.01        |
| tblVehicleEF | MHD | 4.6900e-004 | 5.0000e-004 |
| tblVehicleEF | MHD | 2.6500e-004 | 2.9800e-004 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 0.04        | 0.05        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 8.9000e-005 | 9.8000e-005 |
| tblVehicleEF | MHD  | 0.07        | 0.13        |
| tblVehicleEF | MHD  | 0.01        | 0.01        |
| tblVehicleEF | MHD  | 0.34        | 0.39        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.27        |
| tblVehicleEF | OBUS | 0.99        | 1.14        |
| tblVehicleEF | OBUS | 6.84        | 7.25        |
| tblVehicleEF | OBUS | 56.81       | 56.36       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.27        |
| tblVehicleEF | OBUS | 1.06        | 1.23        |
| tblVehicleEF | OBUS | 1.73        | 1.80        |
| tblVehicleEF | OBUS | 8.6000e-005 | 1.2600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 8.2000e-005 | 1.2100e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.07        | 0.07        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.42        | 0.44        |
| tblVehicleEF | OBUS | 5.5500e-004 | 5.5100e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.4200e-004 | 8.5300e-004 |
| tblVehicleEF | OBUS | 1.6640e-003 | 1.6910e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 7.0500e-004 | 7.1000e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.46        | 0.49        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.26        | 0.26        |
| tblVehicleEF | OBUS | 1.02        | 1.18        |
| tblVehicleEF | OBUS | 6.15        | 6.53        |
| tblVehicleEF | OBUS | 59.14       | 58.65       |
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.25        | 0.28        |
| tblVehicleEF | OBUS | 0.98        | 1.13        |
| tblVehicleEF | OBUS | 1.65        | 1.72        |
| tblVehicleEF | OBUS | 7.2000e-005 | 1.0600e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 6.9000e-005 | 1.0200e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.07        | 0.08        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.39        | 0.41        |
| tblVehicleEF | OBUS | 5.7700e-004 | 5.7200e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.3100e-004 | 8.4100e-004 |
| tblVehicleEF | OBUS | 4.3200e-003 | 4.4120e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.6460e-003 | 1.6730e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 0.43        | 0.45        |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.03        | 0.04        |
| tblVehicleEF | OBUS | 0.27        | 0.28        |
| tblVehicleEF | OBUS | 0.95        | 1.10        |
| tblVehicleEF | OBUS | 7.73        | 8.20        |
| tblVehicleEF | OBUS | 53.61       | 53.20       |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 1,299.68    | 1,306.58    |
| tblVehicleEF | OBUS | 72.24       | 72.62       |
| tblVehicleEF | OBUS | 0.23        | 0.26        |
| tblVehicleEF | OBUS | 1.10        | 1.28        |
| tblVehicleEF | OBUS | 1.82        | 1.90        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.5300e-004 |
| tblVehicleEF | OBUS | 4.6010e-003 | 5.3740e-003 |
| tblVehicleEF | OBUS | 8.6200e-004 | 8.5000e-004 |
| tblVehicleEF | OBUS | 1.0000e-004 | 1.4700e-004 |
| tblVehicleEF | OBUS | 4.3700e-003 | 5.1110e-003 |
| tblVehicleEF | OBUS | 7.9200e-004 | 7.8100e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.04        | 0.04        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.07        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.45        | 0.48        |
| tblVehicleEF | OBUS | 5.2400e-004 | 5.2000e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 8.5700e-004 | 8.7000e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.05        |
| tblVehicleEF | OBUS | 1.5300e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 0.09        | 0.10        |
| tblVehicleEF | OBUS | 0.06        | 0.06        |
| tblVehicleEF | OBUS | 0.50        | 0.53        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.09        |
| tblVehicleEF | SBUS | 8.09        | 8.04        |
| tblVehicleEF | SBUS | 1.17        | 1.27        |
| tblVehicleEF | SBUS | 9.98        | 10.40       |
| tblVehicleEF | SBUS | 1,131.62    | 1,141.47    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.84        | 10.42       |
| tblVehicleEF | SBUS | 4.13        | 4.46        |
| tblVehicleEF | SBUS | 12.34       | 12.52       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.49        | 0.51        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 9.9880e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.2600e-004 | 7.2500e-004 |
| tblVehicleEF | SBUS | 4.7590e-003 | 4.9470e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.39        |
| tblVehicleEF | SBUS | 1.8380e-003 | 1.8410e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.54        | 0.56        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.07        | 0.07        |
| tblVehicleEF | SBUS | 7.97        | 7.91        |
| tblVehicleEF | SBUS | 1.20        | 1.31        |
| tblVehicleEF | SBUS | 6.79        | 7.08        |
| tblVehicleEF | SBUS | 1,182.62    | 1,193.28    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 10.15       | 10.75       |
| tblVehicleEF | SBUS | 3.85        | 4.16        |
| tblVehicleEF | SBUS | 12.28       | 12.46       |
| tblVehicleEF | SBUS | 8.9840e-003 | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 8.5950e-003 | 9.6740e-003 |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 0.96        | 0.96        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.12        | 0.13        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.40        | 0.41        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9890e-003 | 0.01        |
| tblVehicleEF | SBUS | 6.7300e-004 | 6.7000e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.05        | 0.05        |
| tblVehicleEF | SBUS | 1.39        | 1.39        |
| tblVehicleEF | SBUS | 4.1190e-003 | 4.2030e-003 |
| tblVehicleEF | SBUS | 0.15        | 0.16        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.44        | 0.45        |
| tblVehicleEF | SBUS | 0.84        | 0.85        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 0.10        | 0.11        |
| tblVehicleEF | SBUS | 8.26        | 8.22        |
| tblVehicleEF | SBUS | 1.13        | 1.23        |
| tblVehicleEF | SBUS | 14.04       | 14.62       |
| tblVehicleEF | SBUS | 1,061.20    | 1,069.93    |
| tblVehicleEF | SBUS | 1,032.41    | 1,039.63    |



## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 55.40       | 54.63       |
| tblVehicleEF | SBUS | 9.40        | 9.96        |
| tblVehicleEF | SBUS | 4.23        | 4.57        |
| tblVehicleEF | SBUS | 12.40       | 12.59       |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 7.2800e-004 | 7.3100e-004 |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 2.5840e-003 | 2.5910e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.02        |
| tblVehicleEF | SBUS | 6.6900e-004 | 6.7300e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 0.97        | 0.97        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.12        | 0.12        |
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.60        | 0.62        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 9.9870e-003 | 0.01        |
| tblVehicleEF | SBUS | 7.9300e-004 | 7.9500e-004 |
| tblVehicleEF | SBUS | 1.6470e-003 | 1.6400e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.04        |
| tblVehicleEF | SBUS | 1.40        | 1.40        |
| tblVehicleEF | SBUS | 4.2500e-004 | 4.1400e-004 |
| tblVehicleEF | SBUS | 0.14        | 0.15        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.03        | 0.03        |
| tblVehicleEF | SBUS | 0.65        | 0.68        |
| tblVehicleEF | UBUS | 2.00        | 2.14        |
| tblVehicleEF | UBUS | 0.06        | 0.05        |
| tblVehicleEF | UBUS | 8.64        | 9.10        |
| tblVehicleEF | UBUS | 10.06       | 9.98        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.88        | 7.49        |
| tblVehicleEF | UBUS | 14.69       | 14.96       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |
| tblVehicleEF | UBUS | 0.63        | 0.67        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.75        | 0.74        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2710e-003 | 1.2310e-003 |
| tblVehicleEF | UBUS | 4.6620e-003 | 4.5750e-003 |
| tblVehicleEF | UBUS | 0.07        | 0.07        |
| tblVehicleEF | UBUS | 2.0910e-003 | 2.0170e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 2.70        | 2.89        |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.82        | 0.81        |
| tblVehicleEF | UBUS | 2.01        | 2.14        |
| tblVehicleEF | UBUS | 0.05        | 0.05        |
| tblVehicleEF | UBUS | 8.72        | 9.17        |
| tblVehicleEF | UBUS | 7.82        | 7.76        |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 6.42        | 6.99        |
| tblVehicleEF | UBUS | 14.61       | 14.88       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 0.64        | 0.69        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.65        | 0.64        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.2320e-003 | 1.1920e-003 |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.09        | 0.09        |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 5.1080e-003 | 4.9830e-003 |
| tblVehicleEF | UBUS | 2.72        | 2.91        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 0.71        | 0.70        |
| tblVehicleEF | UBUS | 2.00        | 2.13        |
| tblVehicleEF | UBUS | 0.07        | 0.06        |
| tblVehicleEF | UBUS | 8.57        | 9.02        |
| tblVehicleEF | UBUS | 13.20       | 13.11       |
| tblVehicleEF | UBUS | 1,950.68    | 1,967.86    |
| tblVehicleEF | UBUS | 108.98      | 105.13      |
| tblVehicleEF | UBUS | 7.04        | 7.66        |
| tblVehicleEF | UBUS | 14.80       | 15.07       |
| tblVehicleEF | UBUS | 0.58        | 0.59        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 1.0060e-003 | 9.4700e-004 |
| tblVehicleEF | UBUS | 0.25        | 0.25        |
| tblVehicleEF | UBUS | 0.08        | 0.09        |
| tblVehicleEF | UBUS | 9.2500e-004 | 8.7100e-004 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 0.62        | 0.66        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.89        | 0.88        |
| tblVehicleEF | UBUS | 0.01        | 0.01        |
| tblVehicleEF | UBUS | 1.3240e-003 | 1.2840e-003 |
| tblVehicleEF | UBUS | 1.4510e-003 | 1.3910e-003 |

## WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | UBUS | 0.08        | 0.08        |
| tblVehicleEF | UBUS | 5.1600e-004 | 4.8700e-004 |
| tblVehicleEF | UBUS | 2.68        | 2.87        |
| tblVehicleEF | UBUS | 0.02        | 0.02        |
| tblVehicleEF | UBUS | 0.97        | 0.96        |

## 2.0 Emissions Summary

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WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**3.0 Construction Detail**

**Construction Phase**

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|----------|---------------|----------|-------------------|
| 1            | Site Restoration      | Grading               | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |
| 2            | File Material Hauling | Building Construction | 10/1/2020  | 3/1/2021 | 6             | 130      |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Restoration      | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Crawler Tractors          | 2      | 10.00       | 212         | 0.43        |
| Site Restoration      | Excavators                | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Graders                   | 1      | 10.00       | 187         | 0.41        |
| Site Restoration      | Off-Highway Trucks        | 1      | 10.00       | 402         | 0.38        |
| Site Restoration      | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Site Restoration      | Sweepers/Scrubbers        | 1      | 10.00       | 64          | 0.46        |
| Site Restoration      | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Cranes                    | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Forklifts                 | 0      | 0.00        | 0           | 0.00        |
| File Material Hauling | Tractors/Loaders/Backhoes | 0      | 0.00        | 0           | 0.00        |



WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Restoration      | 5                       | 13.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| File Material Hauling | 0                       | 80.00              | 0.00               | 40,000.00           | 14.00              | 6.50               | 6.20                | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Restoration - 2020**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.9779        | 0.0000        | 2.9779        | 0.4199         | 0.0000        | 0.4199        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.2083        | 37.3386        | 15.7648        | 0.0476        |               | 1.4761        | 1.4761        |                | 1.3580        | 1.3580        |          | 4,610.3674        | 4,610.3674        | 1.4911        |     | 4,647.6445        |
| <b>Total</b>  | <b>3.2083</b> | <b>37.3386</b> | <b>15.7648</b> | <b>0.0476</b> | <b>2.9779</b> | <b>1.4761</b> | <b>4.4540</b> | <b>0.4199</b>  | <b>1.3580</b> | <b>1.7779</b> |          | <b>4,610.3674</b> | <b>4,610.3674</b> | <b>1.4911</b> |     | <b>4,647.6445</b> |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**3.2 Site Restoration - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0119        | 5.0700e-003        | 0.0846        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 8.0000e-005        | 1.3000e-004        |          | 2.9354        | 2.9354        | 4.2000e-004        |     | 2.9459        |
| <b>Total</b> | <b>0.0119</b> | <b>5.0700e-003</b> | <b>0.0846</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>8.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.9354</b> | <b>2.9354</b> | <b>4.2000e-004</b> |     | <b>2.9459</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.3401        | 0.0000        | 1.3401        | 0.1890         | 0.0000        | 0.1890        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.2083        | 37.3386        | 15.7648        | 0.0476        |               | 1.4761        | 1.4761        |                | 1.3580        | 1.3580        | 0.0000        | 4,610.3674        | 4,610.3674        | 1.4911        |     | 4,647.6445        |
| <b>Total</b>  | <b>3.2083</b> | <b>37.3386</b> | <b>15.7648</b> | <b>0.0476</b> | <b>1.3401</b> | <b>1.4761</b> | <b>2.8161</b> | <b>0.1890</b>  | <b>1.3580</b> | <b>1.5469</b> | <b>0.0000</b> | <b>4,610.3674</b> | <b>4,610.3674</b> | <b>1.4911</b> |     | <b>4,647.6445</b> |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**3.2 Site Restoration - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0119        | 5.0700e-003        | 0.0846        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 8.0000e-005        | 1.3000e-004        |          | 2.9354        | 2.9354        | 4.2000e-004        |     | 2.9459        |
| <b>Total</b> | <b>0.0119</b> | <b>5.0700e-003</b> | <b>0.0846</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>8.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.9354</b> | <b>2.9354</b> | <b>4.2000e-004</b> |     | <b>2.9459</b> |

**3.2 Site Restoration - 2021**

**Unmitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.9779        | 0.0000        | 2.9779        | 0.4199         | 0.0000        | 0.4199        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.9866        | 33.9765        | 15.2409        | 0.0476        |               | 1.3205        | 1.3205        |                | 1.2148        | 1.2148        |          | 4,608.8845        | 4,608.8845        | 1.4906        |     | 4,646.1497        |
| <b>Total</b>  | <b>2.9866</b> | <b>33.9765</b> | <b>15.2409</b> | <b>0.0476</b> | <b>2.9779</b> | <b>1.3205</b> | <b>4.2984</b> | <b>0.4199</b>  | <b>1.2148</b> | <b>1.6347</b> |          | <b>4,608.8845</b> | <b>4,608.8845</b> | <b>1.4906</b> |     | <b>4,646.1497</b> |

WSAFCA Southport Levee Improvement Project - Yolo/Solano AQMD Air District, Winter

**3.2 Site Restoration - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0108        | 4.4700e-003        | 0.0760        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 7.0000e-005        | 1.3000e-004        |          | 2.8443        | 2.8443        | 3.7000e-004        |     | 2.8535        |
| <b>Total</b> | <b>0.0108</b> | <b>4.4700e-003</b> | <b>0.0760</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>7.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.8443</b> | <b>2.8443</b> | <b>3.7000e-004</b> |     | <b>2.8535</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 1.3401        | 0.0000        | 1.3401        | 0.1890         | 0.0000        | 0.1890        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.9866        | 33.9765        | 15.2409        | 0.0476        |               | 1.3205        | 1.3205        |                | 1.2148        | 1.2148        | 0.0000        | 4,608.8845        | 4,608.8845        | 1.4906        |     | 4,646.1496        |
| <b>Total</b>  | <b>2.9866</b> | <b>33.9765</b> | <b>15.2409</b> | <b>0.0476</b> | <b>1.3401</b> | <b>1.3205</b> | <b>2.6605</b> | <b>0.1890</b>  | <b>1.2148</b> | <b>1.4038</b> | <b>0.0000</b> | <b>4,608.8845</b> | <b>4,608.8845</b> | <b>1.4906</b> |     | <b>4,646.1496</b> |

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**3.2 Site Restoration - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day        |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 0.0108        | 4.4700e-003        | 0.0760        | 3.0000e-005        | 1.3000e-004        | 8.0000e-005        | 2.1000e-004        | 5.0000e-005        | 7.0000e-005        | 1.3000e-004        |          | 2.8443        | 2.8443        | 3.7000e-004        |     | 2.8535        |
| <b>Total</b> | <b>0.0108</b> | <b>4.4700e-003</b> | <b>0.0760</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>8.0000e-005</b> | <b>2.1000e-004</b> | <b>5.0000e-005</b> | <b>7.0000e-005</b> | <b>1.3000e-004</b> |          | <b>2.8443</b> | <b>2.8443</b> | <b>3.7000e-004</b> |     | <b>2.8535</b> |

**3.3 File Material Hauling - 2020**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.3033        | 47.6750        | 7.9117         | 0.1034        | 2.4852        | 0.1147        | 2.5998        | 0.6581         | 0.1097        | 0.7678        |          | 10,838.2500        | 10,838.2500        | 1.0790        |     | 10,865.2253        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3910        | 0.2856         | 2.5613         | 8.0300e-003   | 0.8517        | 5.6100e-003   | 0.8573        | 0.2259         | 5.1700e-003   | 0.2311        |          | 800.2920           | 800.2920           | 0.0198        |     | 800.7871           |
| <b>Total</b> | <b>1.6943</b> | <b>47.9606</b> | <b>10.4730</b> | <b>0.1115</b> | <b>3.3368</b> | <b>0.1203</b> | <b>3.4571</b> | <b>0.8840</b>  | <b>0.1149</b> | <b>0.9989</b> |          | <b>11,638.5420</b> | <b>11,638.5420</b> | <b>1.0988</b> |     | <b>11,666.0124</b> |

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**3.3 File Material Hauling - 2020**

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.3033        | 47.6750        | 7.9117         | 0.1034        | 2.2984        | 0.1147        | 2.4131        | 0.6123         | 0.1097        | 0.7220        |          | 10,838.2500        | 10,838.2500        | 1.0790        |     | 10,865.2253        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3910        | 0.2856         | 2.5613         | 8.0300e-003   | 0.7850        | 5.6100e-003   | 0.7907        | 0.2095         | 5.1700e-003   | 0.2147        |          | 800.2920           | 800.2920           | 0.0198        |     | 800.7871           |
| <b>Total</b> | <b>1.6943</b> | <b>47.9606</b> | <b>10.4730</b> | <b>0.1115</b> | <b>3.0834</b> | <b>0.1203</b> | <b>3.2037</b> | <b>0.8218</b>  | <b>0.1149</b> | <b>0.9367</b> |          | <b>11,638.5420</b> | <b>11,638.5420</b> | <b>1.0988</b> |     | <b>11,666.0124</b> |

**3.3 File Material Hauling - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.2163        | 44.8415        | 7.3664        | 0.1022        | 3.6243        | 0.1006        | 3.7249        | 0.9377         | 0.0963        | 1.0340        |          | 10,711.0701        | 10,711.0701        | 1.0450        |     | 10,737.1946        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.3636        | 0.2555         | 2.3345        | 7.7500e-003   | 0.8517        | 5.4500e-003   | 0.8571        | 0.2259         | 5.0200e-003   | 0.2309        |          | 772.3299           | 772.3299           | 0.0177        |     | 772.7725           |
| <b>Total</b> | <b>1.5799</b> | <b>45.0970</b> | <b>9.7009</b> | <b>0.1100</b> | <b>4.4759</b> | <b>0.1061</b> | <b>4.5820</b> | <b>1.1636</b>  | <b>0.1013</b> | <b>1.2649</b> |          | <b>11,483.4000</b> | <b>11,483.4000</b> | <b>1.0627</b> |     | <b>11,509.9671</b> |



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**4.4 Fleet Mix**

| Land Use | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|          | 0.516533 | 0.039972 | 0.192974 | 0.121896 | 0.024730 | 0.005840 | 0.032766 | 0.052716 | 0.001342 | 0.002151 | 0.007335 | 0.000694 | 0.001052 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

|             | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e   |
|-------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|--------|
| Category    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |           |           |        |     |        |
| Mitigated   | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 |     | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 |     | 0.0000 |



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**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory           | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

**Mitigated**

|                       | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| SubCategory           | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Architectural Coating | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Consumer Products     | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| Landscaping           | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b>          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**