JOHNSON DRIVE ECONOMIC DEVELOPMENT ZONE

Partial Recirculated Supplemental Environmental Impact Report – Response to Comments Document

Appendices

Prepared for
City of Pleasanton

November 2019

ESA

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November 2019

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APPENDIX A

Comment Letters

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August 21, 2019

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Re: Recirculation of Revised Environmental Analyses and Supplemental EIR - Case Nos. PUD-105 and P14-0852 / Johnson Drive Economic Development Zone (JDEDZ)

Dear Mssrs. Beaudin and Luchini:

I am writing on behalf of Laborers' International Union of North America Local Union No. 304, and its many members living in an around the City of Pleasanton concerning the Supplemental Environmental Impact Report ("EIR") prepared for the Johnson Drive Economic Development Zone ("Project"). After reviewing the EIR and the supplemental environmental analyses, together with our consultants, it is clear that the documents fail to comply with CEQA, and fail to adequately analyze and mitigate the Project's impacts. LIUNA urges the City to revise the EIR to adequately describe, analyze, and mitigate the Project and its impacts. A revised EIR should be recirculated to allow public review and comment.

LIUNA submits herewith comments of wildlife ecologist Shawn Smallwood, Ph.D, whose expert comments and curriculum vitae are attached hereto as Exhibit A. LIUNA also submits herewith comments of environmental consulting firm SWAPE. SWAPE's expert comments are attached hereto as Exhibit B. Lastly, the Project has been reviewed further by Industrial Hygienist Francis Offermann, PE, CIH, an expert on indoor air pollution, in particular emissions of formaldehyde. Mr. Offermann's comments and curriculum vitae are attached as Exhibit C. These experts and our own independent review demonstrate that, despite the new analyses, the EIR remains woefully inadequate and that a revised EIR should be prepared prior to Project approval to analyze all impacts and require implementation of all feasible mitigation measures, as described more fully below.

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///

I. PROJECT DESCRIPTION

The Project would implement a pilot Economic Development Zone for a 40-acre site along Johnson Drive. The Project will include, though not limited to, the near term construction and operation of a 148,000 square foot Costco club retail warehouse store and fuel facility, two five-story hotels with respectively, 111 rooms and 120 rooms, and an 800-car parking lot and the future construction and operation of 227,940 square feet of general retail uses and 27,550 square feet of industrial uses. Applications already have been submitted to the City for the Costco and hotels proposed for the Project.

II. STANDING

Members of Local Union No. 304 ("LIUNA") live, work, and recreate in the City of Pleasanton and in the immediate vicinity of the Project site. These members will suffer the impacts of a poorly executed or inadequately mitigated Project, just as would the members of any nearby homeowners association, community group, or environmental group. Hundreds of LIUNA Local Union No. 304 members live and work in areas that will be affected by traffic, air pollution, and wildlife impacts generated by the Project.

In addition, construction workers will suffer many of the most significant impacts from the Project as currently proposed, such as from air pollution emissions from the Project's construction and other impacts. Therefore, LIUNA Local Union No. 304 and its members have a direct interest in ensuring that the Project is adequately analyzed and that its environmental and public health impacts are mitigated to the fullest extent feasible.

III. LEGAL STANDARDS

A. EIR

CEQA requires that an agency analyze the potential environmental impacts of its proposed actions in an environmental impact report ("EIR") (except in certain limited circumstances). (See, e.g., Pub. Resources Code, § 21100.) The EIR is the very heart of CEQA. (*Dunn-Edwards v. BAAQMD* (1992) 9 Cal.App.4th 644, 652.) "The 'foremost principle' in interpreting CEQA is that the Legislature intended the act to be read so as to afford the fullest possible protection to the environment within the reasonable scope of the statutory language." (*Communities for a Better Environment v. Cal. Resources Agency* (2002) 103 Cal.App.4th 98, 109 (*"CBE v. CRA"*).)

CEQA has two primary purposes. First, CEQA is designed to inform decision makers and the public about the potential, significant environmental effects of a project. (14 Cal. Code Regs. ("CEQA Guidelines") § 15002(a)(1).) "Its purpose is to inform the public and its responsible officials of the environmental consequences of their decisions before they are made. Thus, the EIR 'protects not only the environment but also informed self-government.'" (*Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal. 3d 553, 564.) The EIR has been

described as "an environmental 'alarm bell' whose purpose it is to alert the public and its responsible officials to environmental changes before they have reached ecological points of no return." (*Berkeley Keep Jets Over the Bay v. Bd. of Port Comm'rs*. (2001) 91 Cal. App. 4th 1344, 1354 ("*Berkeley Jets*"); *County of Inyo v. Yorty* (1973) 32 Cal.App.3d 795, 810.)

Second, CEQA requires public agencies to avoid or reduce environmental damage when "feasible" by requiring "environmentally superior" alternatives and all feasible mitigation measures. (CEQA Guidelines, § 15002(a)(2) and (3); See also, *Berkeley Jets, supra*, 91 Cal. App. 4th at p. 1354; *Citizens of Goleta Valley, supra*, 52 Cal.3d at p. 564.) The EIR serves to provide agencies and the public with information about the environmental impacts of a proposed project and to "identify ways that environmental damage can be avoided or significantly reduced." (CEQA Guidelines, §15002(a)(2).) If the project will have a significant effect on the environment, the agency may approve the project only if it finds that it has "eliminated or substantially lessened all significant effects on the environment where feasible" and that any unavoidable significant effects on the environment are "acceptable due to overriding concerns." (Pub. Resources Code, § 21081; CEQA Guidelines, § 15092(b)(2)(A) & (B).)

While the courts review an EIR using an "abuse of discretion" standard, "the reviewing court is not to 'uncritically rely on every study or analysis presented by a project proponent in support of its position. A 'clearly inadequate or unsupported study is entitled to no judicial deference.'" (*Berkeley Jets*, 91 Cal. App. 4th at p. 1355 (emphasis added), quoting, *Laurel Heights Improvement Assn. v. Regents of University of California*, 47 Cal. 3d 376, 391 409, fn. 12 (1988).) As the court stated in *Berkeley Jets*, 91 Cal. App. 4th at p. 1355:

> A prejudicial abuse of discretion occurs "if the failure to include relevant information precludes informed decisionmaking and informed public participation, thereby thwarting the statutory goals of the EIR process." (*San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus* (1994) 27 Cal.App.4th 713, 722; *Galante Vineyards v. Monterey Peninsula Water Management Dist*. (1997) 60 Cal. App. 4th 1109, 1117; *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal. App. 4th 931, 946.)

More recently, the California Supreme Court has emphasized that:

> When reviewing whether a discussion is sufficient to satisfy CEQA, a court must be satisfied that the EIR (1) includes sufficient detail to enable those who did not participate in its preparation to understand and to consider meaningfully the issues the proposed project raises [citation omitted]....

(*Sierra Club v. Cty. of Fresno* (2018) 6 Cal.5th 502, 510 (2018), citing *Laurel Heights Improvement Assn. v. Regents of University of California* (1988) 47 Cal.3d 376, 405.) The Court in *Sierra Club v. Cty. of Fresno* also emphasized at another primary consideration of sufficiency is whether the EIR "makes a reasonable effort to substantively connect a project's air quality impacts to likely health consequences." (6 Cal.5th at 510.) "Whether or not the alleged inadequacy is the complete omission of a required discussion or a patently inadequate one-

paragraph discussion devoid of analysis, the reviewing court must decide whether the EIR serves its purpose as an informational document." (*Id*. at 516.) Although an agency has discretion to decide the manner of discussing potentially significant effects in an EIR, "a reviewing court must determine whether the discussion of a potentially significant effect is sufficient or insufficient, i.e., whether the EIR comports with its intended function of including 'detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project.'" (6 Cal.5th at 516, citing *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.) "The determination whether a discussion is sufficient is not solely a matter of discerning whether there is substantial evidence to support the agency's factual conclusions." (6 Cal.5th at 516.) As the Court emphasized:

> [W]hether a description of an environmental impact is insufficient because it lacks analysis or omits the magnitude of the impact is not a substantial evidence question. A conclusory discussion of an environmental impact that an EIR deems significant can be determined by a court to be inadequate as an informational document without reference to substantial evidence.

(*Sierra Club v. Cty. of Fresno*, 6 Cal.5th at 514.)

IV. THE EIR FAILS TO ANALYZE AND MITIGATE ALL POTENTIALLY SIGNIFICANT IMPACTS.

An EIR must disclose all potentially significant adverse environmental impacts of a project. (Pub. Resources Code, § 21100(b)(1); CEQA Guidelines, § 15126(a); *Berkeley Jets*, 91 Cal. App. 4th 1344, 1354.) CEQA requires that an EIR must not only identify the impacts, but must also provide "information about how adverse the impacts will be." (*Santiago County Water Dist. v. County of Orange* (1981) 118 Cal.App.3d 818, 831). The lead agency may deem a particular impact to be insignificant only if it produces rigorous analysis and concrete substantial evidence justifying the finding. (*Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692 ("*Kings County*").)

Every CEQA document must start from a "baseline" assumption. The CEQA "baseline" is the set of environmental conditions against which to compare a project's anticipated impacts. Section 15125(a) of the CEQA Guidelines (14 C.C.R., § 15125(a)) states in pertinent part that a lead agency's environmental review under CEQA: 1

> "…must include a description of the physical environmental conditions in the vicinity of the project, as they exist at the time [environmental analysis] is commenced, from both a local and regional perspective. This environmental setting will normally constitute the baseline physical conditions by which a Lead
> Agency determines whether an impact is significant." (Emphasis added.)

(*See, Save Our Peninsula Committee v. County of Monterey* (2001) 87 Cal.App.4th 99, 124-125 ("*Save Our Peninsula.*") As the court of appeal has explained, "the impacts of the

project must be measured against the 'real conditions on the ground,'" and not against hypothetical permitted levels. (87 Cal.App.4th 99, 121-123.)

CEQA requires public agencies to avoid or reduce environmental damage when feasible by requiring mitigation measures. (CEQA Guidelines, § 15002(a)(2) and (3); See also, *Berkeley Jets*, 91 Cal. App. 4th at p. 1354; *Citizens of Goleta Valley*, 52 Cal.3d at p. 564.) The EIR serves to provide agencies and the public with information about the environmental impacts of a proposed project and to "identify ways that environmental damage can be avoided or significantly reduced." (CEQA Guidelines, §15002(a)(2).) If the project will have a significant effect on the environment, the agency may approve the project only if it finds that it has "eliminated or substantially lessened all significant effects on the environment where feasible" and that any unavoidable significant effects on the environment are "acceptable due to overriding concerns." (Pub. Resources Code, § 21081; CEQA Guidelines, § 15092(b)(2)(A) & (B).)

In general, mitigation measures must be designed to minimize, reduce, or avoid an identified environmental impact or to rectify or compensate for that impact. (CEQA Guidelines, § 15370.) Where several mitigation measures are available to mitigate an impact, each should be discussed and the basis for selecting a particular measure should be identified. (*Id.*, at § 15126.4(a)(1)(B).) A lead agency may not make the required CEQA findings unless the administrative record clearly shows that all uncertainties regarding the mitigation of significant environmental impacts have been resolved.

1 cont.

CEQA requires the lead agency to adopt feasible mitigation measures that will substantially lessen or avoid the Project's potentially significant environmental impacts (Pub. Resources Code, §§ 21002, 21081(a)), and describe those mitigation measures in the CEQA document. (Pub. Resources Code, § 21100(b)(3); CEQA Guidelines, § 15126.4.) A public agency may not rely on mitigation measures of uncertain efficacy or feasibility. (*Kings County*, 221 Cal.App.3d at p. 727 (finding groundwater purchase agreement inadequate mitigation measure because no record evidence existed that replacement water was available).) "Feasible" means capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social and technological factors. (CEQA Guidelines, § 15364.) To demonstrate economic infeasibility, "evidence must show that the additional costs or lost profitability are sufficiently severe as to render it impractical to proceed with the project." (*Citizens of Goleta Valley v. Board of Supervisors* (1988) 197 Cal.App.3d 1167, 1181.) The EIR must provide evidence and analysis to show project cannot be economically implemented. (*Kings County, supra*, 221 Cal.App.3d at pp. 734-737.) This requires not just cost data, but also data showing insufficient income and profitability. (*See Burger v. County of Mendocino* (1975) 45 Cal.App.3d 322, 327 (infeasibility claim unfounded absent data on income and expenditures showing project unprofitable); *San Franciscans Upholding the Downtown Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656, 694 (upholding infeasibility finding based on analysis of costs, projected revenues, and investment requirements).) Mitigation measures must be fully enforceable through permit conditions, agreements, or other legally binding instruments. (CEQA Guidelines, § 15126.4, subd. (a)(2).)

A lead agency may not conclude that an impact is significant and unavoidable without requiring the implementation of all feasible mitigation measures to reduce the impacts of a project to less than significant levels. (CEQA Guidelines, §§ 15126.4, 15091.) 1 cont.

A. THE FEIR FAILS TO ADEQUATELY ANALYZE AND MITIGATE BIOLOGICAL IMPACTS.

1. The Project's EIR Fails to Apply a Baseline Supported by Substantial Evidence to its Evaluation of Potential Wildlife Impacts of the Project on Biological Resources.

The SEIR relies on a single reconnaissance level field survey in September 2014 to determine the baseline of biological resources at the site from which to evaluate wildlife impacts. SEIR, p. 4.E-2. Although noting that various databases indicate that 12 special status plant species and 24 special-status animal species have been reported to occur in the vicinity of the Project, the SEIR only identifies the Copper's hawk and three bat species as having a "moderate potential" to occur on the Project site. SEIR, p. 4.E-8. The SEIR also generically mentions that birds may breed in trees on the site. *Id*., p. 4.E-9. The SEIR also claims that, at the time, "[n]o small mammal burrows were observed in the parcel and grassland appears to be managed throughout the year." *Id*., p. 4.E-8.

2

Dr. Smallwood visited the Project site on July 29, 2019. During his two hour reconnaissance of the site along Johnson Drive, he observed and photographed a number of special status species at the site, including White-tailed kite, Cooper's hawk, Red-tailed hawk and California gull. Smallwood Comments, p. 2 (attached as Exhibit A). Dr. Smallwood also observed and photographed a red fox and a number of fox dens on the site. *Id*., pp. 2, 5. His review of data submitted to the eBird database and his expert knowledge of various mammalian species further reveals that 33 special-status species of birds likely occur on the site as well as eight mammalian species with potential to occur on site. *Id*., pp. 6-7 (Table 2).

In addition to the lack of a robust biological site survey during appropriate nesting seasons, the EIR eliminates numeorous species from the baseline based on a "plausible likelihood of compromising habitat loss or disturbance to species that would occur during construction and operation of the proposed EDZ." SEIR, p. 4.E-1. This effort to constrain the baseline puts the cart before the horse, eliminating many species from disclosure based on some undocumented, internal decision concluding the Project would have no impact on particular species despite their possible presence at the site and without properly surveying for them. *See* Smallwood Comments, p. 8.

Because the SEIR ignores the documented presence of numoerus special status species on the site, the evaluation and disclosure of possible significant impacts to those species is absent from the SEIR. As Dr. Smallwood notes:

> Even with a brief site visit on one day I proved that some special-status species persist on the project site, including white-tailed kite, Cooper's hawk, red-tailed hawk, and California gull. I'm confident that additional species listed in Table 2 would be detected with additional survey effort, especially at the level of appropriate detection surveys. In the case of birds, eBird records provide ample evidence in support of my conclusion, as all of the bird species listed in Table 2 have been reported in the project area via eBird. Preparation of a project-specific EIR is warranted.

Smallwood Comments, pp. 8-9. The various preconstruction surveys called for in the SEIR do nothing to rectify the EIR's numerous shortcomings in disclosing impacts. Nor would those surveys to be conducted just prior to construction stand-in as a proper baseline from which to disclose and evaluate impacts. (*See id*.) 2 cont.

Establishing an accurate baseline is the sine qua non to adequately analyzing and mitigating the significant environmental impacts of the Project. (*See* CEQA Guidelines, § 15125(a); *Save Our Peninsula*, 87 Cal.App.4th at 121-123.) Unfortunately, the SEIR's failure to investigate and identify the occurrences of sensitive biological resources at the Project site results in a skewed baseline. Such a skewed baseline ultimately "mislead(s) the public" by engendering inaccurate analyses of environmental impacts, mitigation measures and cumulative impacts for biological resources. (See *San Joaquin Raptor Rescue Center,* 149 Cal.App.4th at 656; *Woodward Park Homeowners,* 150 Cal.App.4th at 708-711.) The SEIR's failure to acknowledge the special status species that likely will be adversely affected by the extensive building proposed in the Project "lacks analysis" and "omits the magnitude of the impact" to biological resources. (*Sierra Club v. Cty. of Fresno*, 6 Cal.5th at 514.) As a result, the SEIR is insufficient as a matter of law.

2. The SEIR Fails to Adequately Address Wildlife Movement Through the Site.

The SEIR fails to address the 40-acre Project's adverse impacts on wildlife movement through the site. The SEIR does mention the adjacent Alamo Canal channel, downplaying that channel's importance to amphibians but noting it likely is used by grey fox, deer, skunks, raccoons, opossum, and bullfrogs. SEIR, p. 4.E-8. However, Dr. Smallwood points out that the SEIR fails to address wildlife movement through the 40 acre project site and the Project's likely impacts on that movement. Based on his observations of numerous birds and fox moving through the site and review of species using the site, Dr. Smallwood states: 3

> A site such as the proposed project site is critically important for wildlife movement because it composes an increasingly diminishing patch of tree canopy cover within a growing expanse of anthropogenic uses, forcing more volant wildlife to use the site as stop-over and staging habitat during migration, dispersal, and home range patrol (Warnock 2010, Taylor et al. 2011, Runge et al. 2014). The project would cut wildlife off from stop-over and staging habitat, and

would therefore interfere with wildlife movement in the region.

Smallwood Comments, p. 9. The SEIR must review this potentially significant impact. 3 cont.

3. The EIR Fails to Analyze the Project's Impacts on Wildlife from Additional Traffic Generated by the Project.

According to the SEIR, the Project will generate between 12,000 and 15,600 new daily car and truck trips. SEIR, p. 4.D-25 (Table 4.D-3). Yet the SEIR provides no analysis of the impacts on wildlife that will be caused by an enormous increase in traffic on the roadways servicing the Project.

"Increased use of existing roads will increase wildlife fatalities." Smallwood Comments, p. 9 (citation omitted). As a result, the Project's traffic increases will have potentially significant impacts on species occurring even off-site of the Project, including threatened and endangered species. *Id*.

Vehicle collisions with special-status species is not a minor issue, but rather results in the death of millions of species each year. Dr. Smallwood explains:

> Across North America traffic impacts have taken devastating tolls on wildlife (Forman et al. 2003). In Canada, 3,562 birds were estimated killed per 100 km of road per year (Bishop and Brogan 2013), and the US estimate of avian mortality on roads is 2,200 to 8,405 deaths per 100 km per year, or 89 million to 340 million total per year (Loss et al. 2014). Local impacts can be more intense than nationally. 4
>
> In a recent study of traffic-caused wildlife mortality, investigators found 1,275 carcasses of 49 species of mammals, birds, amphibians and reptiles over 15 months of searches along a 2.5 mile stretch of Vasco Road in Contra Costa County, California (Mendelsohn et al. 2009). Using carcass detection trials performed on land immediately adjacent to the traffic mortality study (Brown et al. 2016) to adjust the found fatalities for the proportion of fatalities not found due to scavenger removal and searcher error, the estimated traffic-caused fatalities was 12,187. This fatality estimate translates to a rate of 3,900 wild animals per mile per year killed along 2.5 miles of road in 1.25 years. In terms comparable to the national estimates, the estimates from the Mendelsohn et al. (2009) study would translate to 243,740 animals killed per 100 km of road per year, or 29 times that of Loss et al.'s (2014) upper bound estimate and 68 times the Canadian estimate. An analysis is needed of whether increased traffic on roads in and around Pleasanton would similarly result in intense local impacts on wildlife.

Smallwood, pp. 9-10.

As part of his review, Dr. Smallwood has prepared a model based on his review of relevant wildlife traffic mortality studies. Smallwood Comments, pp. 10-11. Taking into existing

traffic levels on Johnson Drive, Dr. Smallwood estimates that the Project's increased traffic would increase collisions of vehicles with wildlife by about 35 percent in the vicinity of the Project. Id., p. 11. Based on wildlife fatality counts for other Bay area roads, that would equate to 3,413 wildlife fatalities from the Project traffic. *Id*. Dr. Smallwood notes that the estimate model "should be applied to roads that are closer to the project site," but "surveys for traffic-caused wildlife mortality would be needed before project impacts could be accurately predicted." *Id*. Because no such background information was gathered as part of the City's review and the SEIR does not address wildlife fatalities at all, the SEIR is insufficient and lacks analysis. The SEIR must be revised to include an analysis and mitigation of the result increased traffic from the Project will have on wildlife. 4 cont.

4. The EIR fails to adequately address the Project's impacts on wildlife resulting from bird strikes.

The SEIR makes no mention of the Project's impact on birds from collisions with the Project's buildings' windows and other features. *See* SEIR, pp. 4.E.-1 - 4.E-14. As a result, the EIR's discussion is manifestly insufficient to describe the Project's impacts on birds colliding with the glass facades and other structures that will be constructed as a result of the Project. By omitting this serious impact, the SEIR misrepresents the Project's potential impacts and fails to give any sense of the magnitude of this potential impact.

Full disclosure of the potential impact on wildlife of window collisions is especially important because "[w]indow collisions are often characterized as either the second or third largest source of human-caused bird mortality." Dr. Smallwood Comments, p. 12. "Glass-façades of buildings intercept and kill many birds, but these façades are differentially hazardous to birds based on spatial extent, contiguity, orientation, and other factors." *Id*. 5

As a preliminary matter, a proper EIR for the Project should include, among other things, details of window placements, window extent, types of glass, and anticipated interior and exterior landscaping and lighting. Smallwood Comments, pp. 16-19. The EIR then should discuss the likely magnitude of bird collisions with the Project as well as the particular species that would be most likely to collide with the Project and evaluate the direct and cumulative impacts of those bird fatalities.

Dr. Smallwood reviewed a number of studies and, based on some reasonable projections of windows in hotels and a big box retail outlet, calculated an estimate of the number of bird collisions per m^2 of glass windows per year. *Id*., p. 15. The absence of any details for the proposed Costco warehouse and two hotels requires Dr. Smallwood to estimate the amount of windows to be included on those Projects. Just considering those components of the Project, Dr. Smallwood conservatively estimates that about 900 birds per year will collide with those buildings' facades. *Id*. at p. 11. Looking ahead, Dr. Smallwood notes that "[The 50-year toll from this average annual fatality rate would be 46,874 bird deaths" *Id*. Dr. Smallwood's bird fatality estimate underscores the SEIR's absent discussion and lack of any, never mind "sufficient[,] detail to enable those who did not participate in its preparation to understand and to consider

meaningfully the issues the proposed project raises[.]" *Sierra Club v. Cty. of Fresno*, 6 Cal.5th at 510.

In order to mitigate the impact of the window collisions on bird species, Dr. Smallwood has suggested several possible mitigation measures. Dr. Smallwood suggests: (1) marking the windows (e.g. decals, film, fritted glass); (2) managing outdoor landscape to reduce reflection of vegetation; (3) managing indoor landscape; and (4) managing nocturnal lighting. Smallwood Comments, pp. 19-20. For mitigation measures involving the siting and design of the Project, Dr. Smallwood suggests: (1) deciding on the location of structures; (2) deciding on the façade and orientation of structures; (3) selecting types and sizes of windows; (4) minimizing transparency through two parallel façades; (5) minimizing views of interior plants; and (6) landscaping so as to increase distance between windows and vegetation. *Id.*, p. 20. Dr. Smallwood also suggests that the City also look to the guidelines developed by the American Bird Conservancy to minimize injuries and fatalities to bird species. *Id.*, p. 16. 5 cont.

Even with Dr. Smallwood's proposed mitigations, however, it is not likely that the Project can fully mitigate this potentially significant impact. Only a robust discussion in a new EIR subjected to public review and comment would indicate the extent of the impact and the necessary mitigation measures and fully disclose unmitigated impacts the Project may cause.

5. The EIR's Cumulative Biological Resources Analysis Violates CEQA and is Not Supported by Substantial Evidence.

CEQA documents, such as the SEIR, must discuss cumulative impacts, and mitigate significant cumulative impacts. 14 CCR § 15130(a). This requirement flows from CEQA section 21083, which requires a finding that a project may have a significant effect on the environment if "the possible effects of a project are individually limited but cumulatively considerable. . . . 'Cumulatively considerable' means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects." A legally adequate cumulative impacts analysis views a particular project over time and in conjunction with other related past, present, and reasonably foreseeable probable future projects whose impacts might compound or interrelate with those of the project at hand. 6

The EIR fails to analyze the Project's cumulative impact on biological resources. *See* SEIR, pp. 4.E.-1 - – 4.E-14. The SEIR "does not include all projects that would contribute to cumulative impacts along with the proposed EDZ; rather, it includes a number of concurrent projects in the area to demonstrate the scope and nature of development in this part of the City." SEIR, pp. 4-4 – 4-5 (Table 4-1). The SEIR's incomplete list is not applied to the review of impacts to biological resources. Cumulative impacts to wildlife are particularly important to considering cumulative impacts on wildlife movement, wildlife traffic fatalities, and bird collisions. As an example, Dr. Smallwood uses the list of projects to estimate the amount of window surface and estimates that those four projects alone would kill almost 6,000 birds per year from collisions with their facades. Smallwood Comment, p. 21. Over 50 years, his estimate

amounts to almost 300,000 bird kills from the listed projects alone. *Id*. The cumulative tally on birds and other wildlife must ab addressed in order for the SEIR to be sufficient. 6 cont.

B. THE SEIR AND UPDATED AIR QUALITY ANALYSIS FAIL TO ADEQUATELY ANALYZE AND MITIGATE THE PROJECT'S SIGNIFICANT AIR QUALITY IMPACTS.

The original SEIR concludes that operation of the Project will have significant air quality impacts due to NOx and PM10 emissions and would obstruct implementation of BAAQMD's 2010 Clean Air Plan. SEIR, pp. 2-3. The recirculated SEIR would change that conclusion to less than significant with mitigation for the full Project buildout. For the Project's construction phases, the SEIR states that construction-related air pollution impacts will be less than significant after implementation of mitigation measures. *Id*., pp. 2-8 – 2-9. Environmental consulting firm SWAPE has reviewed the recently updated air quality analysis prepared for the Project. SWAPE Comments, Exhibit B; July 2019 Final Technical Memo on Updated Air Quality Analysis ("Updated Air Analysis"). SWAPE's review of the CalEEMod modeling indicates that the inputs to the model are not consistent with the scope of the Project being reviewed. As a result, the modeled emissions are underestimated and the basis for the SEIR's air quality impact analysis is not supported by substantial evidence. 7

In regard to the SEIR's and recent air modeling review of the Project's construction emissions, the CalEEMod files do not include any emissions associated with the expected vendor trucks that will occur throughout construction. The Updated Air Analysis estimates that there will be 3,330 vendor truck trips associated with construction of the Project. Updated Air Analysis Memo, pp. 11-12. However, no vendor trips are included in the CalEEMod modeling. SWAPE Comments, pp. 2-4. As SWAPE states, "by failing to account for the correct number of vendor trips that would be required during the entire construction duration, the construction emissions estimates provided in the AQ Memo are incorrect and should not be used to determine Project significance." *Id*., p. 4. Because the modeling omits a substantial number of truck trips from its review, the SEIR's updated conclusions regarding air quality impacts are not supported by substantial evidence and are insufficient for failing to address those pollution sources. 8

In terms of the evaluation of emissions during operation of the Project, the modeling also omits key elements of the Project. These include failing to include the redevelopment of the industrial zoned parcel and the full scope of retail development authorized by the Project. SWAPE Comments, pp. 4-6. Thus, the 27,550 square feet of industrial development allowed by the Project is not included in the modeling. *Id*., p. 4. Similarly, the new modeling arbitrarily omits 38,903 square feet of future retail development authorized by the Project. Contrary to the modeling, the Project's "[f]ull buildout would include development as described for Phase I, and would include the development of up to 246,440 square feet of general retail uses, up to 148,000 square feet of club retail uses, up to 27,550 square feet of industrial uses, and up to 88,000 square feet of hotel uses, for a total of up to 509,990 square feet of uses." 2015 SEIR, p. 3-9. *See id*., p. 4.B-16 (citing those same square footage figures and "all parcels within the EDZ area would ultimately be redeveloped with new uses"). Because the air modeling for the Project's operations 9

excludes 60,000 square feet of industrial and retail square footage, the model underestimates emissions and fails to provide substantial evidence to support the SEIR's air quality discussion and conclusions. 9 cont.

Correcting for these inconsistencies, SWAPE has re-run the CalEEMod analysis, assuming all of the other input parameters are correct. SWAPE Comments, pp. 7-8. The model indicates that during construction the Project will emit 96.22 lbs/day of NOx, well above the BAAQMD significance threshold of 54 lbs/day. *Id*., p. 7. For operation of the Project, the corrected model run indicates that the Project will emit 17.32 tons per year of PM10, above the BAAQMD significance threshold of 15 tons/year. Based on these analyses, the SEIR's conclusion that's conclusions that the Project's construction emission of NOx and operational emissions of PM10 will be less than significant are not supported by substantial evidence. 10

C. THE SEIR FAILS TO ADEQUATELY ADDRESS AND MITIGATE THE PROJECT'S GREENHOUSE GAS EMISSIONS.

The SEIR's discussion of GHG emissions has little basis in the current baseline or focus on the Project's actual GHG emissions. The original SEIR would have one pretend the Project was implemented in 2005 with the available 2005 technologies and then compare that to implementing the Project in 2020 with the year 2020 technologies. That comparison says nothing about the actual 2020 GHG emissions and whether the Project's 20,800 MT CO2e per year emissions may have a significant impact on GHG emissions.

The updated air quality modeling and memo does not alter substantially the SEIR's analysis. It continues to rely on consistency with the City's Climate Action Plan, the 2017 Climate Change Scoping Plan Update, and Plan Bay Area 2040. However, consistency with these plans does not explain how a Project expected to emit 20,800 MT CO2e per year would not have a significant impact or how available mitigation measures would be applied to the Project to eliminate any significant GHG emissions. As SWAPE's review notes, the City's CAP is only considered a qualified plan through 2020. The Project will be built out and operating, for the most part, if not in its entirety, after that plan expires. The City does not have a climate action plan that has been qualified as consistent with SB 32's GHG target for 2030. The other two documents referenced by the SEIR and the update modeling memo do not meet the criteria for a climate action plan pursuant to CEQA Guidelines §§ 15064.4(b)(3) and 15183.5(b)(1). See SWAPE Comments, p. 9. Accordingly, the City cannot demonstrate that any of the cited plans, taken together, will achieve the SB 32 2030 goals. As a result, the SEIR's GHG analysis is conjecture unsupported by any substantial evidence that the Project's 20,800 MT CO2e per year emissions are unsubstantial. 11

Because the City's CAP is not sufficient to address the Project, the BAAQMD's significance thresholds indicate that the Project will have a significant environmental impact. The BAAQMD has established a GHG significance threshold for land use development:

The Thresholds of Significance for operational-related GHG emissions are:

> • For land use development projects, the threshold is compliance with a qualified GHG Reduction Strategy; or annual emissions less than 1,100 metric tons per year (MT/yr) of CO2e; or 4.6 MT CO2e/SP/yr (residents + employees). Land use development projects include residential, commercial, industrial, and public land uses and facilities.

BAAQMD Guidelines, p. 2-4 (http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en). See also id., p. 2-2 (Table 2-1).[1] The Project will obviously greatly exceed the BAAQMD numeric threshold. The City must revise the EIR to directly address the Project's GHG emissions and ensure mitigation measures that would reduce the GHG emissions to less than significant levels.

When a Project exceeds a duly adopted CEQA significance threshold, as here, this alone establishes substantial evidence that the project will have a significant adverse environmental impact. Indeed, in many instances, such air quality thresholds are the only criteria reviewed and treated as dispositive in evaluating the significance of a project's air quality impacts. (*See, e.g. Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 960 (County applies BAAQMD's "published CEQA quantitative criteria" and "threshold level of cumulative significance"). *See* also *Communities for a Better Environment v. California Resources Agency* (2002) 103 Cal.App.4th 98, 110-111 ("A 'threshold of significance' for a given environmental effect is simply that level at which the lead agency finds the effects of the project to be significant").) The California Supreme Court made clear the substantial importance that an air district significance threshold plays in providing substantial evidence of a significant adverse impact. (*Communities for a Better Environment v. South Coast Air Quality Management Dist.* (2010) 48 Cal.4th 310, 327 ("As the [South Coast Air Quality Management] District's established significance threshold for NOx is 55 pounds per day, these estimates [of NOx emissions of 201 to 456 pounds per day] constitute substantial evidence supporting a fair argument for a significant adverse impact").) Since expert evidence demonstrates that the Project will exceed the BAAQMD's CEQA significance threshold, there is substantial evidence that an "unstudied, ***potentially significant environmental effect[]***" exists. (*See Friends of Coll. of San Mateo Gardens v. San Mateo Cty. Cmty. Coll. Dist.* (2016) 1 Cal.5th 937, 958 (emphasis added).) As a result, the EIR for the Project must address this impact and identify enforceable mitigation measures.

11 cont.

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[1] Even if the Project were considered as a plan-level action, it would grossly exceed BAAQMD's GHG emissions threshold. The BAAQMD significance threshold for GHG emission of a plan-level project is "Compliance with Qualified GHG Reduction Strategy OR 6.6 MT CO2e/SP/yr (residents + employees)." BAAQMD Guidelines, p. 2-3. GHG emissions from the two projects already under review – the Costco retail warehouse and the two hotels – would still have to be reviewed pursuant to the project-level threshold.

D. THE EIR FAILS TO ADDRESS THE POTENTIAL ADVERSE IMPACTS OF THE PROJECT ON INDOOR AIR QUALITY.

The EIR also fails to address the significant health risks posed by the Project from indoor formaldehyde emissions, a toxic air contaminant ("TAC"). Certified Industrial Hygienist, Francis "Bud" Offermann, PE, CIH, has conducted a review of the Project, the SEIR, and relevant documents regarding the Project's indoor air emissions. Indoor Environmental Engineering Comments (August 21, 2019) (attached as Exhibit C). Mr. Offermann is one of the world's leading experts on indoor air quality, in particular emissions of formaldehyde, and has published extensively on the topic. As discussed below and set forth in Mr. Offermann's comments, the Project's emissions of formaldehyde to air will result in very significant cancer risks to future workers at the Project's two hotels. Mr. Offermann's expert opinion and calculation is substantial evidence that the Project may have significant health risk impacts as a result of these indoor air pollution emissions. These impacts must be addressed in a revised SEIR.

Formaldehyde is a known human carcinogen and listed by the State as a TAC. (*See* SEIR, p. 4.B-5. BAAQMD has established a significance threshold of health risks for carcinogenic TACs of 10 in a million and a cumulative health risk threshold of 100 in a million. See BAAQMD Guidelines, p. 2-2 – 2-3 (http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en). The SEIR fails to acknowledge the significant indoor air emissions that will result from the Project. Specifically, there is no discussion of impacts or health risks, no analysis, and no identification of mitigations for significant emissions of formaldehyde to indoor air from the Project. 12

Mr. Offermann explains that many composite wood products typically used in hotel construction contain formaldehyde-based glues which off-gas formaldehyde over a very long time period. He states, "The primary source of formaldehyde indoors is composite wood products manufactured with urea-formaldehyde resins, such as plywood, medium density fiberboard, and particle board. These materials are commonly used in building construction for flooring, cabinetry, baseboards, window shades, interior doors, and window and door trims." (Offermann Comments, p. 3.)

Mr. Offermann states that future workers at the Project's hotels will be exposed to a cancer risk from formaldehyde of approximately 18.4 per million, assuming all materials are compliant with the California Air Resources Board's formaldehyde airborne toxics control measure. (Offermann Comments, pp. 3-4.) This is almost twice the BAAQMD's CEQA significance thresholds for airborne cancer risk of 10 per million. (*Id.*) This exceedance of a duly-adopted BZAQMD significance threshold is substantial evidence of a potential significant impact required to be analyzed in an EIR. Adding in the other risks from adjacent TAC sources will only increase the cumulative health risks to be borne by the Project's future residents. (*Id.*, pp. 10-11.) Mr. Offermann concludes that these significant environmental impacts should be analyzed in the SEIR and mitigation measures should be imposed to reduce the risk of formaldehyde exposure. (Offermann Comments, pp. 2-4.) He prescribes a methodology for estimating the Project's formaldehyde emissions in order to do a more project-specific health

risk assessment. (*Id*., pp. 5-8.). Mr. Offermann also suggests several feasible mitigation measures, such as requiring the use of no-added-formaldehyde composite wood products, which are readily available. (*Id*., pp. 11-12.) Since the SEIR does not analyze this impact at all, none of these or other mitigation measures have been considered.

The failure of the SEIR to address the Project's formaldehyde emissions is contrary to the California Supreme Court's decision in *California Building Industry Ass'n v. Bay Area Air Quality Mgmt. Dist.* (2015) 62 Cal.4th 369, 386 ("*CBIA*"). In that case, the Supreme Court expressly holds that potential adverse impacts to future users and residents from pollution generated by a proposed project ***must be addressed*** under CEQA. At issue in *CBIA* was whether the Air District could enact CEQA guidelines that advised lead agencies that they must analyze the impacts of adjacent environmental conditions on a project. The Supreme Court held that CEQA does not generally require lead agencies to consider the environment's effects on a project. *CBIA*, 62 Cal.4th at 800-801. However, to the extent a project may exacerbate existing environmental conditions at or near a project site, those would still have to be considered pursuant to CEQA. *Id*. at 801. In so holding, the Court expressly held that CEQA's statutory language required lead agencies to disclose and analyze "impacts on ***a project's users or residents*** that arise ***from the project's effects*** on the environment." (*Id*. at 800 (emphasis added).)

12 cont.

The carcinogenic formaldehyde emissions identified by Mr. Offermann are not an existing environmental condition. Those emissions to the air will be from the Project. People will be working in and using the Project once it is built and begins emitting formaldehyde. Once built, the Project, particularly the hotels, will begin to emit formaldehyde at levels that pose significant direct and cumulative health risks. The Supreme Court in *CBIA* expressly finds that this type of air emission and health impact by the project on the environment and a "project's users and residents" must be addressed in the CEQA process. The existing TAC sources near the Project site would have to be considered in evaluating the cumulative effect on future workers of both the Project's TAC emissions as well as those existing off-site emissions.

The City has a duty to investigate issues relating to a project's potential environmental impacts. (*See County Sanitation Dist. No. 2 v. County of Kern*, (2005) 127 Cal.App.4th 1544, 1597–98. ["[U]nder CEQA, the lead agency bears a burden to investigate potential environmental impacts."].) The proposed hotels will have significant impacts on air quality and health risks by emitting cancer-causing levels of formaldehyde into the air that will expose future workers to cancer risks potentially in excess of BAAQMD's threshold of significance for cancer health risks of 10 in a million. Likewise, when combined with the risks posed by the nearby TAC sources, the health risks inside the project may exceed BAAQMD's cumulative health risk threshold of 100 cancers in a million. Currently, outside of Mr. Offermann's comments, the City does not have any idea what risks will be posed by formaldehyde emissions from the Project or the residences. As a result, the City must include an analysis and discussion in the SEIR which discloses and analyzes the health risks that the Project's formaldehyde emissions may have on future residents and identifies appropriate mitigation measures. Until that occurs, the SEIR is insufficient in disclosing this important impact.

V. CONCLUSION

For the foregoing reasons, LIUNA and its members urge the City to prepare and recirculate a revised SEIR addressing the above shortcomings. Thank you for your attention to these comments. Please include this letter and all attachments hereto in the record of proceedings for this project. 13

Sincerely,

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EXHIBIT A

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Eric Luchini, Associate Planner
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19 August 2019

RE: Johnson Drive Economic Development Zone

Dear Mr. Luchini,

I write to comment on the SEIR (City of Pleasanton 2015, 2016, 2019; ESA 2017) prepared for the Johnson Drive Economic Development Zone (JDEDZ), which I understand would add up to 509,688 ft^2 of commercial space, including a 4-story hotel (132,000 ft^2) and a club retail outlet (148,000 square feet) on 40 acres of land. Given the lack of project detail in the SEIR, I relied on an average extent of glass on building façades per square foot of floor space from 12 recent Bay Area hotel and office building projects, which, after assuming the club retail building would use only 10% of the window area typical of other commercial buildings, predicts that the project's façades would support at least 12,335 m^2 of glass windows. Based on an average from 3 recent hotels in the area, the hotel alone would likely add 4,325 m^2 of glass windows. I write to comment on bird-window collisions that would result from this project, as well as traffic impacts on wildlife. Neither of these impacts were addressed in prior CEQA reviews prepared for this project, and scientific understanding of both has increased in recent years.

My qualifications for preparing expert comments are the following. I hold a Ph.D. degree in Ecology from University of California at Davis, where I subsequently worked for four years as a post-graduate researcher in the Department of Agronomy and Range Sciences. My research has been on animal density and distribution, habitat selection, habitat restoration, interactions between wildlife and human infrastructure and activities, conservation of rare and endangered species, and on the ecology of invading species. I perform research on wildlife mortality caused by wind turbines, electric distribution lines, agricultural practices, and road traffic. I authored numerous papers on special-status species issues, including "Using the best scientific data for endangered species conservation" (Smallwood et al. 1999), and "Suggested standards for science applied to conservation issues" (Smallwood et al. 2001). I served as Chair of the Conservation Affairs Committee for The Wildlife Society – Western Section. I am a member of The Wildlife Society and the Raptor Research Foundation, and I've been a part-time lecturer at California State University, Sacramento. I was Associate Editor of wildlife biology's premier scientific journal, The Journal of Wildlife Management, as well as of Biological Conservation, and I was on the Editorial Board of Environmental Management. I have performed wildlife surveys in California for thirty-three years, including at many proposed project sites. My CV is attached.

SITE VISIT

I visited the east side of the proposed project site from 17:38 to 19:38 hours on 29 July 2019, walking along Johnson Drive while scanning for wildlife using binoculars. I saw 21 species of vertebrate wildlife in two hours (Table 1), including a Cooper's hawk (Photo 1), California towhees (Photo 2), American crows (Photo 3), northern mockingbirds (Photo 4), cliff swallows (Photo 5), mourning doves (Photo 6), a red-tailed hawk (Photo 7), a white-tailed kite (Photos 8 and 9), and a red fox and several den sites (Photo 10). Although nesting season was mostly over by the time of my visit, evidence of nesting was abundant, such as many of the birds being fledglings. The Cooper's hawk's quick roundtrip foraging visit from the project site to South San Ramon Creek indicated it was tending an on-site nest. The red-tailed hawk and white-tailed kite appeared to be visiting the site to forage, and returning to nests west of the highway. Many cliff swallows foraged on site, and I tracked them back to their nest sites under a bridge nearby (Photo 5). A major food supply for raptors on site included pocket gophers, which were undergoing abatement efforts by someone mistakenly using a mole trap.

Table 1. *Species of wildlife I observed during 17:38 to 19:38 hours on 29 July 2019 along Johnson Drive through the site of the proposed project.*

Species	***Scientific name***	**Status[1]**	**Note**
Mallard	*Anas platyrhynchos*		Small flock
Great egret	*Ardea alba*		Overflight
California gull	*Larus californicus*	TWL	Overflights
Turkey vulture	*Cathartes aura*	CDFW 3503.5	Foraging
White-tailed kite	*Elanus leucurus*	CFP, TWL, CDFW 3503.5	Foraging
Cooper's hawk	*Accipiter cooperii*	TWL, CDFW 3503.5	Foraging; nesting?
Red-tailed hawk	*Buteo jamaicensis*	CDFW 3503.5	Foraging
Mourning dove	*Zenaida macroura*		Many
Rock pigeon	*Columba livea*	Exotic	Small flocks
Western kingbird	*Tyrannus verticalis*		Foraging; nesting?
Black phoebe	*Sayornis nigricans*		Foraging; nesting?
Common raven	*Corvus corax*		Foraging
American crow	*Corvus brachyrhynchos*		Many fledglings
Cliff swallow	*Hirundo pyrrhonota*		Foraging
Barn swallow	*Hirundo rustica*		Foraging
Northern mockingbird	*Mimus polyglottos*		Fledglings, adults
California towhee	*Melozone crissalis*		Multiple
House finch	*Carpodacus mexicanus*		Many; nesting
American goldfinch	*Carduelis tristis*		In trees
Red fox	*Vulpes vulpes*		Adult, several dens
Botta's pocket gopher	*Thomomys bottae*		Many

[1] Listed as: CFP = California Fully Protected, CDFW 3503.5 = California Department of Fish and Wildlife Code 3503.5 (Birds of prey), and TWL = Taxa to Watch List (Shuford and Gardali 2008).

Photo 1 (right). *A Cooper's hawk prepares to attack a sparrow on the west side of the proposed project site, along Johnson Drive, 29 July 2019.*

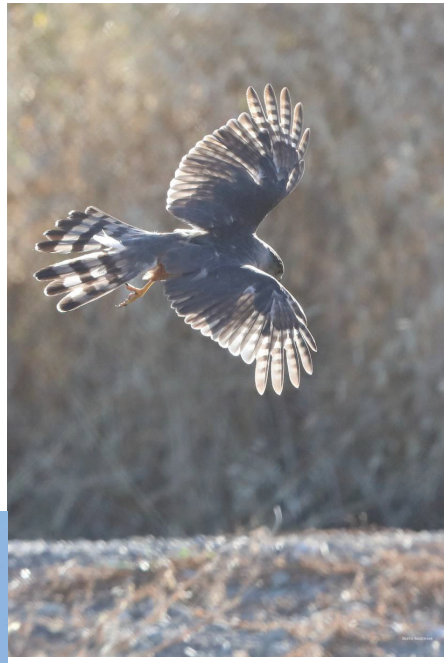


Photo 2 (above). *California towhee on the proposed project site, 29 July 2019.*

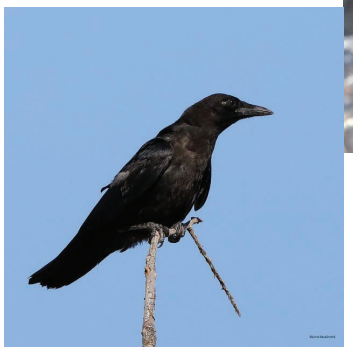
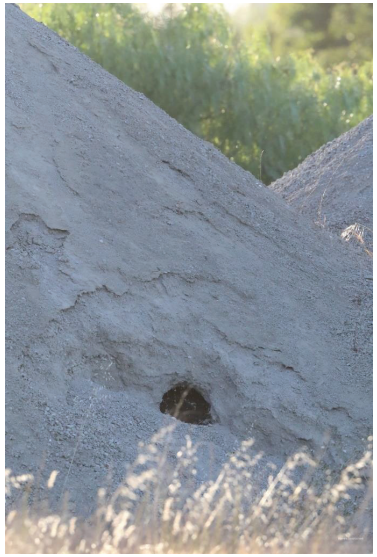


Photo 3 (above). *American crow waits for a large flock of crows to catch up to him while on the proposed project site, 29 July 2019.*

Photos 4 (left) and 5 (right). *Northern mockingbird perched on the project site (left), and cliff swallows peering out of their nests (right) under a bridge nearby the project site, 29 July 2019.*

Photos 6 (left) and 7 (right). *A mourning dove (left) on site and a red-tailed hawk (above) soaring over the site of the proposed project, 29 July 2019.*



Photos 8 and 9 (left) and 10 (above). *White-tailed kite (left) forages above the project site, near where I saw a red fox heading towards one of its several dens (above), 29 July 2019.*

BIOLOGICAL IMPACTS ASSESSMENT

My site visit and eBird review revealed a site used by multiple special-status species of wildlife (Table 2). According to the habitat characterizations of Kunz and Lumsden (2003), habitat on the project site also appears suitable for multiple special-status species of bats (Table 2). It is a site that would also increase the vulnerability of birds to window collisions if the proposed hotel is built there, and between the hotel and club retail outlet the project would pose traffic hazards to wildife extending to segments of road extending far from the project site.

Table 2. *Species reported on eBird (https://eBird.org) for the area on and around the project site.*

Species	Scientific name	Status[1]	Occurrence potential		
			2015 SEIR	2008 General Plan EIR	Smallwood
Pallid bat	*Antrozous pallidus*	SSC	Moderate	Present	Probable
Hoary bat	*Lasiurus cinereus*	WBWG	Moderate		Probable
Western red bat	*Lasiurus blossevillii*	SSC			Possible
Yuma myotis	*Myotis yumanensis*	WBWG	Moderate	Present	Probable
Fringed myotis	*Myotis thysanodes*	WBWG			Possible
Long-eared myotis	*Myotis evotis*	WBWG			Possible
Small-footed myotis	*Myotis cililabrum*	WBWG			Possible
San Francisco dusky-footed woodrat	*Neotoma fuscipes annectens*	CSC		Present	
Long-billed curlew	*Numenius americanus*	TWL, BCC			eBird nearby
California gull	*Larus californicus*	TWL			eBird nearby; I detected on site
Osprey	*Pandion haliaetus*	TWL, CDFW 3503.5			eBird nearby
Bald eagle	*Haliaeetus leucocephalus*	BGEPA, BCC, CE, CFP			eBird nearby
Golden eagle	*Aquila chrysaetos*	BGEPA, BCC, CFP	Low	Present	eBird nearby
Ferruginous hawk	*Buteo regalis*	TWL, CDFW 3503.5	Low		eBird nearby
Red-tailed hawk	*Buteo jamaicensis*	CDFW 3503.5			eBird nearby; I detected on site
Swainson's hawk	*Buteo swainsoni*	CT, BCC			eBird nearby
Red-shouldered hawk	*Buteo lineatus*	CDFW 3503.5			eBird nearby
Sharp-shinned hawk	*Accipiter striatus*	TWL, CDFW 3503.5			eBird nearby
Cooper's hawk	*Accipiter cooperi*	TWL, CDFW 3503.5	Moderate	Moderate	eBird nearby: I detected on site
Northern harrier	*Circus cyaneus*	SSC3	Low		eBird nearby
White-tailed kite	*Elanus leucurus*	CFP, TWL, CDFW 3503.5	Low	Moderate	eBird nearby; I detected on site
American kestrel	*Falco sparverius*	CDFW 3503.5			eBird nearby
Merlin	*Falco columbarius*	TWL, CDFW 3503.5			eBird nearby
Prairie falcon	*Falco mexicanus*	TWL, CDFW 3503.5			eBird nearby

Species	Scientific name	Status[1]	Occurrence potential		
			2015 SEIR	2008 General Plan EIR	Smallwood
Peregrine falcon	*Falco peregrinus*	CE, CFP, BCC			eBird nearby
Burrowing owl	*Athene cunicularia*	BCC, SSC2, CDFW 3503.5	Low	Present	eBird nearby
Great-horned owl	*Bubo virginianus*	CDFW 3503.5			eBird nearby
Short-eared owl	*Asio flammeus*	CDFW 3503.5			eBird nearby
Western screech-owl	*Megascops kennicotti*	CDFW 3503.5			eBird nearby
Barn owl	*Tyto alba*	CDFW 3503.5,			eBird nearby
Vaux's swift	*Chaetura vauxi*	SCC2			eBird on site
Allen's hummingbird	*Selasphorus sasin*	BCC			eBird nearby
Nuttall's woodpecker	*Picoides nuttallii*	BCC			eBird nearby
Willow flycatcher	*Empidonax trailii extimus*	FE, CE			eBird nearby
Yellow-billed magpie	*Pica nuttalli*	BCC			eBird nearby
Oak titmouse	*Baeolophus inornatus*	BCC			eBird nearby
Loggerhead shrike	*Lanius ludovicianus*	BCC, SSC2	Low	Moderate	eBird nearby
Yellow warbler	*Setophaga petechia*	SSC2, BCC			eBird nearby
San Francisco common yellowthroat	*Geothlypis trichas sinuosa*	SSC3, BCC			eBird nearby
Tricolored blackbird	*Agelaius tricolor*	CT, BCC	Low	Present	eBird nearby
Lawrence's goldfinch	*Spinus lawrencei*	BCC			eBird nearby

[1] Listed as BCC = U.S. Fish and Wildlife Service Bird Species of Conservation Concern, CE = California endangered, CT = California threatened, CFP = California Fully Protected (CDFG Code 4700), CDFW 3503.5 = California Department of Fish and Wildlife Code 3503.5 (Birds of prey), and SSC1, SSC2 and SSC3 = California Bird Species of Special Concern priorities 1, 2 and 3, respectively (Shuford and Gardali 2008), TWL = Taxa to Watch List (Shuford and Gardali 2008), and WBWG = priority listing by Western Bat Working Group.

My summary assessment of special-status species occurrence potentials in Table 2 is at odds with City of Pleasanton's (2015) assessment. City of Pleasanton (2015:4.E-4) listed 15 special-status species of wildlife with potential to occur on the project site. My review of eBird revealed 33 special-status species of bird likely occurs on the site at one time or another (Table 2). I also identified 8 mammalian species with potential to occur on site (Table 2). This assessment discrepancy could partly be explained by City of Pleasanton's (2015:4.E-1) presumption that the urban context of the project site prevents special-status species from occurring there. Whereas I would agree that occurrence likelihoods of special-status species decline with urbanization, my experience includes many instances of special-status species making the best of increasingly difficult situations. Many of our rarest and most sensitive species vie for survival in urban settings, including burrowing owls using artificial cavities for nest sites instead of fossorial mammal burrows, Swainon's hawks nesting in backyard trees so long as forage can be found within a mile or so, and white-tailed kites roosting in tall ornamental trees growing in yards and parks. Some special-status species have adapted well to urban settings, but are declining for other reasons, such as yellow-billed magpies, which are jeopardized by the spread of West Nile Virus (Smallwood and Nakamoto 2010).

City of Pleasanton (2015:4.E-3) also explains its short list of special-status species occurrence likelihoods as resulting from a consideration of the changes in conditions that would be brought by project construction. This reasoning was inconsistent with CEQA's standards, however, as the description of the environmental setting is supposed to represent conditions at the time the CEQA review was prepared, and not conditions anticipated following project construction. The list of special-status species with occurrence potential should not have been shortened from the 2008 General Plan EIR based on predictions over how the project would later alter habitat suitability of the site. City of Pleasanton's (2015) description of the environmental setting was partly the product of its impacts assessment.

The assessment of occurrence likelihoods in the 2015 SEIR was at odds with the assessment in the 2008 General Plan EIR. In 2008, City of Pleasanton knew of the occurrences of 6 special-status species within the Plan area, but in 2015 the City determined half of these species had low occurrence likelihood, two had moderate potential, and another was not considered at all. One of the species known to occur in 2008 but determined to have low potential in 2015 was white-tailed kite, which I photographed on site in 2019 (Photos 8 and 9). Another species known to be present in 2008, but determined to have low occurrence potential in 2015, was tricolored blackbird, which in 2017 was upgraded to threatened species status in California. Given that a large proportion of the tricolored blackbirds remaining in California are surviving on dairy farms, the disturbed nature of the project site should not be relied upon to presume this species as unlikely using the site. I would not be surprised to find tricolored blackbirs on the project site during fall or winter surveys.

Even with a brief site visit on one day I proved that some special-status species persist on the project site, including white-tailed kite, Cooper's hawk, red-tailed hawk, and California gull. I'm confident that additional species listed in Table 2 would be detected

with additional survey effort, especially at the level of appropriate detection surveys. In the case of birds, eBird records provide ample evidence in support of my conclusion, as all of the bird species listed in Table 2 have been reported in the project area via eBird. Preparation of a project-specific EIR is warranted.

Wildlife Movement

City of Pleasanton (2015, 2016, 2019) neglected to assess whether the project would interfere with wildife movement in the region. This assessment was required under CEQA, but not performed. A site such as the proposed project site is critically important for wildlife movement because it composes an increasingly diminising patch of tree canopy cover within a growing expanse of anthropogenic uses, forcing more volant wildlife to use the site as stop-over and staging habitat during migration, dispersal, and home range patrol (Warnock 2010, Taylor et al. 2011, Runge et al. 2014). The project would cut wildlife off from stop-over and staging habitat, and would therefore interfere with wildlife movement in the region. Mitigation measures are needed to minimize and offset project impacts on wildlife movement. A project-specific EIR needs to be prepared to appropriately address project impacts on wildlife movement.

TRAFFIC-CAUSED WILDIFE MORTALITY

Vehicle collisions have accounted for the deaths of many thousands of reptile, amphibian, mammal, bird, and arthropod fauna, and the impacts have often been found to be significant at the population level (Forman et al. 2003). Increased use of existing roads will increase wildlife fatalities (see Figure 7 in Kobylarz 2001). Members of some special-status species that are likely absent from the project site, but which could be reached by the project's traffic extending to the region, include California Species of Concern such as American badger (*Taxidea taxus*) and species listed by the federal government at Threatened such as Alameda whipsnake (*Masticophis lateralis euryxanthus*), California tiger salamander (*Ambystoma californiense*) and California red-legged frog (*Rana draytonii*). Nothing about these likely impacts is addressed in City of Pleasanton (2016).

Across North America traffic impacts have taken devastating tolls on wildlife (Forman et al. 2003). In Canada, 3,562 birds were estimated killed per 100 km of road per year (Bishop and Brogan 2013), and the US estimate of avian mortality on roads is 2,200 to 8,405 deaths per 100 km per year, or 89 million to 340 million total per year (Loss et al. 2014). Local impacts can be more intense than nationally.

In a recent study of traffic-caused wildlife mortality, investigators found 1,275 carcasses of 49 species of mammals, birds, amphibians and reptiles over 15 months of searches along a 2.5 mile stretch of Vasco Road in Contra Costa County, California (Mendelsohn et al. 2009). Using carcass detection trials performed on land immediately adjacent to the traffic mortality study (Brown et al. 2016) to adjust the found fatalities for the proportion of fatalities not found due to scavenger removal and searcher error, the estimated traffic-caused fatalities was 12,187. This fatality estimate translates to a rate

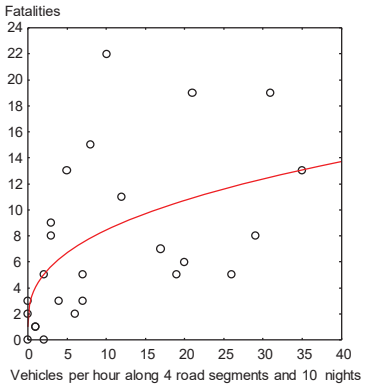
of 3,900 wild animals per mile per year killed along 2.5 miles of road in 1.25 years. In terms comparable to the national estimates, the estimates from the Mendelsohn et al. (2009) study would translate to 243,740 animals killed per 100 km of road per year, or 29 times that of Loss et al.'s (2014) upper bound estimate and 68 times the Canadian estimate. An analysis is needed of whether increased traffic on roads in and around Pleasanton would similarly result in intense local impacts on wildlife.

Wildlife roadkill is not randomly distributed, so can be predicted. Causal factors include types of roadway, human population density, and temperature (Chen and Wu 2014), as well as time of day and adjacency and extent of vegetation cover (Chen and Wu 2014, Bartonička et al. 2018), and intersections with streams and riparian vegetation (Bartonička et al. 2018). For example, species of mammalian Carnivora are killed by vehicle traffic within 0.1 miles of stream crossings >40 times other than expected (K. S. Smallwood, 1989-2018 unpublished data). The good news is that factors contributing to road mortality of wildlife can also point the way toward mitigation measures, which should be formulated in a project-specific EIR.

Predicting Traffic-Caused Wildlife Mortality

According to the revised SEIR (City of Pleasanton 2016), existing daily trips are 3,500 (5×3,580 weekdays and 3,100 Saturday), which adds up to 1,277,500 annual trips. At full build-out the project would generate 12,833 additional daily trips (5×12,270 weekdays and 15,650 Saturday), which adds up to 4,684,167 annual trips. The project is predicted to have a 3.67-fold increase in traffic. Without knowing the baseline traffic-caused wildlife fatality rate, it is impossible to predict the post-construction fatality rate. However, the relationship between amphibian fatalities and vehicles per hour measured at one study site (Koblyarz et al. 2001) could predict the magnitude of change in wildlife mortality, assuming that the relationship would be consistent between amphibians and all wildlife. Starting with a low baseline of fatalities predicted from 2 vehicles per hour in Figure 1, the 3.67-fold increase in mean daily trips would predict 1.52× the number of fatalities from 7 vehilces per hour (2 × 3.67). Starting from a higher baseline of fatalities predicted from 8 vehicles per hour in Figure 1, the 3.67-fold increase in mean daily trips would predict 1.57× the number of fatalities from 29.4 vehilces per hour (8 × 3.67). Within the data range of the model, a 3.67-fold increase in traffic volume would predict a 50% to 60% increase in wildlife mortality fom most baseline conditions.

Figure 1. *Relationship between amphibian fatalities and vehicle traffic per hour on 4 road segments over 10 nights:* $Y = 1.004 + 3.070X^{0.385}$ *(r^2 = 0.33; data from Koblyarz et al. 2001).*



Assuming that the relationship would hold for higher traffic volumes, what increase in wildlife mortality might we see on Johnson Drive and other nearby roads? A 2018 traffic count on Johnson Drive reported 10,440 average daily vehicle trips (http://www.cityofpleasantonca.gov/gov/depts/cd/traffic/maps_and_information/traffic_counts.asp), which translates to 435 vehicles per hour on average. Adding to this baseline the project's predicted trip generation, and we can predict 970 vehicles per hour on average on Johnson Drive. From this change in traffic volume from 435 to 970 vehicles per hour, and assuming the model in Figure 1 still holds, then the model would predict a 35% increase in traffic-caused wildlife fatalities. This change in road mortality could translate into very substantial numbers of annual falaties caused by the project. For example, if this change was applied to the 2.5-mile stretch of Vasco Road studied by Mendelsohn et al. (2009), as discussed earlier, then the project would cause 3,413 additional annual fatalities on that stretch alone. More realistically, the prediction should be applied to roads that are closer to the project site, but surveys for traffic-caused wildlife mortality would be needed before project impacts could be accurately predicted.

WINDOW COLLISIONS

None of the CEQA reviews leading to the proposed project assessed potential impacts of bird-window collisions, depsite an emerging scientific literature identifying this impact as one of the largest sources of avian mortality worldwide. The 2015 SEIR and subsequent supplemental analysis memos inadequately inform the public about avian use of the project site, and how that use can potentially transform avian susceptibility to window collisions into avian vulnerability in the face of the structures built as part of the project. Surveys are needed to learn how many of each bird species fly through the area, and at what times of day (and night), and at what heights above ground and under what circumstances. Biologists familiar with bird flight behaviors need to survey for birds on

the project site. Nocturnal surveys can be performed using a thermal-imaging camera, although many of the birds would not be identifiable to species during nocturnal surveys. Such surveys would inform of collision risk, and could inform mitigation strategies involving interior light management and design modifications to facades facing the prevailing approach directions of migrating birds. Below I review the bird-window collision issue, hypothesized causal factors and recommended mitigation solutions. I also predict bird-window collision rates based on studies performed across the USA at structures ranging widely in height, window to wall ratio, types of glass, orientation, and structural context. My aim is to make a robust prediction from this range of study conditions, and to present the associated large confidence interval that I believe is appropriate in the face of uncertainty over how many birds fly through the project area and what proportion of the birds are more susceptible that others to window collision.

Glass-façades of buildings intercept and kill many birds, but these façades are differentially hazardous to birds based on spatial extent, contiguity, orientation, and other factors. At Washington State University, Johnson and Hudson (1976) found 266 bird fatalities of 41 species within 73 months of monitoring of a three-story glass walkway (no fatality adjustments attempted). Prior to marking the windows to warn birds of the collision hazard, the collision rate was 84.7 per year. At that rate, and not attempting to adjust the fatality estimate for the proportion of fatalities not found, 4,235 birds were likely killed over the 50 years since the start of their study, and that's at a relatively small building façade (Figure 2). Accounting for the proportion of fatalities not found, the number of birds killed by this walkway over the last 50 years would have been about 12,705. And this is just for one 3-story, glass-sided walkway between two college campus buildings.

Figure 2. *A walkway connecting two buildings at Washington State University where one of the earliest studies of bird collision mortality found 85 bird fatalities per year prior to marking windows (254 annual deaths adjusted for the proportion not found). Given that the window markers have long since disappeared, this walkway has likely killed at least 12,705 birds since 1968, and continues to kill birds. Notice that the transparent glass on both sides of the walkway gives the impression of unimpeded airspace that can be navigated safely by birds familiar with flying between tree branches. Also note the reflected images of trees, which can mislead birds into seeing safe perch sites. Further note the distances of ornamental trees, which allow birds taking off from those trees to reach full speed upon arrival at the windows.*

Window collisions are often characterized as either the second or third largest source or human-caused bird mortality. The numbers behind these characterizations are often attributed to Klem's (1990) and Dunn's (1993) estimates of about 100 million to 1 billion bird fatalities in the USA, or more recently Loss et al.'s (2014) estimate of 365-988 million bird fatalities in the USA or Calvert et al.'s (2013) and Machtans et al.'s (2013) estimates of 22.4 million and 25 million bird fatalities in Canada, respectively. However, these estimates and their interpretation warrant examination because they were based on opportunistic sampling, volunteer study participation, and fatality monitoring by more inexperienced than experienced searchers.

Klem's (1990) estimate was based on speculation that 1 to 10 birds are killed per building per year, and this speculated range was extended to the number of buildings estimated by the US Census Bureau in 1986. Klem's speculation was supported by fatality monitoring at only two houses, one in Illinois and the other in New York. Also, the basis of his fatality rate extension has changed greatly since 1986. Whereas his estimate served the need to alert the public of the possible magnitude of the bird-window collision issue, it was highly uncertain at the time and undoubtedly outdated more than three decades hence. Indeed, by 2010 Klem (2010) characterized the upper end of his estimated range – 1 billion bird fatalities – as conservative. Furthermore, the estimate lumped species together as if all birds are the same and the loss of all birds to windows has the same level of impact.

Homes with birdfeeders are associated with higher rates of window collisions than are homes without birdfeeders (Kummer and Bayne 2015, Kummer et al. 2016a), so the developed area might pose even greater hazard to birds if it includes numerous birdfeeders. Another factor potentially biasing national or North American estimates low was revealed by Bracey et al.'s (2016) finding that trained fatality searchers found 2.6× the number of fatalities found by homeowners on the days when both trained searchers and homeowners searched around homes. The difference in carcass detection was 30.4-fold when involving carcasses volitionally placed by Bracey et al. (2016) in blind detection trials. This much larger difference in trial carcass detection rates likely resulted because their placements did not include the sounds that typically alert homeowners to actual window collisions, but this explanation also raises the question of how often homeowner participants with such studies miss detecting window-caused fatalities because they did not hear the collisions.

By the time Loss et al. (2014) performed their effort to estimate annual USA bird-window fatalities, many more fatality monitoring studies had been reported or were underway. Loss et al. (2014) were able to incorporate many more fatality rates based on scientific monitoring, and they were more careful about which fatality rates to include. However, they included estimates based on fatality monitoring by homeowners, which in one study were found to detect only 38% of the available window fatalities (Bracey et al. 2016). Loss et al. (2014) excluded all fatality records lacking a dead bird in hand, such as injured birds or feather or blood spots on windows. Loss et al.'s (2014) fatality metric was the number of fatalities per building (where in this context a building can

include a house, low-rise, or high-rise structure), but they assumed that this metric was based on window collisions. Because most of the bird-window collision studies were limited to migration seasons, Loss et al. (2014) developed an admittedly assumption-laden correction factor for making annual estimates. Also, only 2 of the studies included adjustments for carcass persistence and searcher detection error, and it was unclear how and to what degree fatality rates were adjusted for these factors. Although Loss et al. (2014) attempted to account for some biases as well as for large sources of uncertainty mostly resulting from an opportunistic rather than systematic sampling data source, their estimated annual fatality rate across the USA was highly uncertain and vulnerable to multiple biases, most of which would have resulted in fatality estimates biased low.

In my review of bird-window collision monitoring, I found that the search radius around homes and buildings was very narrow, usually 2 meters. Based on my experience with bird collisions in other contexts, I would expect that a large portion of bird-window collision victims would end up farther than 2 m from the windows, especially when the windows are higher up on tall buildings. In my experience, searcher detection rates tend to be low for small birds deposited on ground with vegetation cover or woodchips or other types of organic matter. Also, vertebrate scavengers entrain on anthropogenic sources of mortality and quickly remove many of the carcasses, thereby preventing the fatality searcher from detecting these fatalities. Adjusting fatality rates for these factors – search radius bias, searcher detection error, and carcass persistence rates – would greatly increase nationwide estimates of bird-window collision fatalities.

Buildings can intercept many nocturnal migrants as well as birds flying in daylight. As mentioned above, Johnson and Hudson (1976) found 266 bird fatalities of 41 species within 73 months of monitoring of a four-story glass walkway at Washington State University (no adjustments attempted). Somerlot (2003) found 21 bird fatalities among 13 buildings on a university campus within only 61 days. Monitoring twice per week, Hager at al. (2008) found 215 bird fatalities of 48 species, or 55 birds/building/year, and at another site they found 142 bird fatalities of 37 species for 24 birds/building/year. Gelb and Delacretaz (2009) recorded 5,400 bird fatalities under buildings in New York City, based on a decade of monitoring only during migration periods, and some of the high-rises were associated with hundreds of fatalities each. Klem et al. (2009) monitored 73 building façades in New York City during 114 days of two migratory periods, tallying 549 collision victims, nearly 5 birds per day. Borden et al. (2010) surveyed a 1.8 km route 3 times per week during 12-month period and found 271 bird fatalities of 50 species. Parkins et al. (2015) found 35 bird fatalities of 16 species within only 45 days of monitoring under 4 building façades. From 24 days of survey over a 48 day span, Porter and Huang (2015) found 47 fatalities under 8 buildings on a university campus. Sabo et al. (2016) found 27 bird fatalities over 61 days of searches under 31 windows. In San Francisco, Kahle et al. (2016) found 355 collision victims within 1,762 days under a 5-story building. Ocampo-Peñuela et al. (2016) searched the perimeters of 6 buildings on a university campus, finding 86 fatalities after 63 days of surveys. One of these buildings produced 61 of the 86 fatalities, and another building with collision-deterrent glass caused only 2 of the fatalities, thereby indicating a wide range in impacts likely influenced by various factors. There is ample evidence

available to support my prediction that the proposed project would result in many collision fatalities of birds.

Project Impact Prediction

Predicting the number of bird collisions at a new project is challenging because the study of window collisions remains in its early stages. Researchers have yet to agree on a collision rate metric. Some have reported findings as collisions per building per year and some as collisions per building per day. Some have reported findings as collisions per m^2 of window. The problem with the temporal factor in the collision rate metrics has been monitoring time spans varying from a few days to 10 years, and even in the case of the 10-year span, monitoring was largely restricted to spring and fall migration seasons. Short-term monitoring during one or two seasons of the year cannot represent a 'year,' but monitoring has rarely spanned a full year. Using 'buildings' in the metric treats buildings as all the same size, when we know they are not. Using square meters of glass in the metric treats glass as the only barrier upon which birds collide against a building's façade, when we know it is not. It also treats all glass as equal, even though we know that collision risk varies by type of glass as well as multiple factors related to contextual settings.

Without the benefit of more advanced understanding of window collision factors, my prediction of project impacts will be uncertain. Klem's (1990) often-cited national estimate of avian collision rate relied on an assumed average collision rate of 1 to 10 birds per building per year, but studies since then have all reported higher rates of collisions 12 to 352 birds per building per year. Because the more recent studies were likely performed at buildings known or suspected to cause many collisions, collision rates from them could be biased high. By the time of these comments I had reviewed and processed results of bird collision monitoring at 181 buildings and façades for which bird collisions per m^2 of glass per year could be calculated and averaged (Johnson and Hudson 1976, O'Connell 2001, Somerlot 2003, Hager et al. 2008, Borden et al. 2010, Hager et al. 2013, Porter and Huang 2015, Parkins et al. 2015, Kahle et al. 2016, Ocampo-Peñuela et al. 2016, Sabo et al. 2016, Barton et al. 2017, Schneider et al. 2018). These study results averaged 0.077 bird deaths per m^2 of glass per year (95% CI: 0.04-0.11). Looking over the proposed commercial floor space, including the hotel and club retail, I estimated the project would include 12,335 m^2 of glass windows (after assuming the club retail would include only 10% of the window area of other commercial spaces in the project). Applied to the mean fatality rate, this area of glass would predict **937 bird deaths per year (95% CI: 70-2,360)**. The 50-year toll from this average annual fatality rate would be 46,874 bird deaths (95% CI: 3,485-118,009), which would continue until the buildings of the project are either renovated to reduce bird collisions or they come down.

As mentioned earlier, the accuracy of this prediction depends on factors known or hypothesized to affect window collision rates. However, I used all the variation in collision rates that was available and which resulted from a wide range in building height, type of glass, indoor and outdoor landscaping, interior light management,

window to wall ratio, and structural context of the façade. This variation contributed to a robust bird-window collision rate represented by a wide 95% confidence interval. According to the confidence interval, which again was based on the wide range of conditions in the underlying data, the proposed project built as designed at 100 locations would be predicted to kill between 70 and 2,360 birds per year at 95 of those 100 locations, leaving the other 5 to kill birds at rates either lower or higher than this range. Even at the low end of the interval, the death toll would be excessive, amounting to 3,485 bird deaths over 50 years. This impact would be significant, especially considering that the predicted fatality rate can be prevented by implementing appropriate mitigation measures. Below I will discuss hypothesized bird-window collision factors, and I will recommend mitigation measures.

Bird-Window Collision Factors

Below is a list of collision factors I found in the scientific literature. Following this list are specific notes and findings taken from the literature and my own experience.

(1) Inherent hazard of a structure in the airspace used for nocturnal migration or other flights
(2) Window transparency, falsely revealing passage through structure or to indoor plants
(3) Window reflectance, falsely depicting vegetation, competitors, or open airspace
(4) Black hole or passage effect
(5) Window or façade extent, or proportion of façade consisting of window or other reflective surface
(6) Size of window
(7) Type of glass
(8) Lighting, which is correlated with window extent and building operations
(9) Height of structure (collision mechanisms shift with height above ground)
(10) Orientation of façade with respect to winds and solar exposure
(11) Structural layout causing confusion and entrapment
(12) Context in terms of urban-rural gradient, or surrounding extent of impervious surface vs vegetation
(13) Height, structure, and extent of vegetation grown near home or building
(14) Presence of birdfeeders or other attractants
(15) Relative abundance
(16) Season of the year
(17) Ecology, demography and behavior
(18) Predatory attacks or cues provoking fear of attack
(19) Aggressive social interactions

(1) Inherent hazard of structure in airspace.—Not all of a structure's collision risk can be attributed to windows. Overing (1938) reported 576 birds collided with the Washington Monument in 90 minutes on one night, 12 September 1937. The average annual fatality count had been 328 birds from 1932 through 1936. Gelb and Delacretaz (2009) and Klem et al. (2009) also reported finding collision victims at buildings lacking windows,

although many fewer than they found at buildings fitted with widows. The takeaway is that any building going up at the project site would likely kill birds, although the impacts of a glass-sided building would likely be much greater.

(2) Window transparency.—Widely believed as one of the two principal factors contributing to avian collisions with buildings is the transparency of glass used in windows on the buildings (Klem 1989). Gelb and Delacretaz (2009) felt that many of the collisions they detected occurred where transparent windows revealed interior vegetation.

(3) Window reflectance.—Widely believed as one of the two principal factors contributing to avian collisions with buildings is the reflectance of glass used in windows on the buildings (Klem 1989). Reflectance can deceptively depict open airspace, vegetation as habitat destination, or competitive rivals as self-images (Klem 1989). Gelb and Delacretaz (2009) felt that many of the collisions they detected occurred toward the lower parts of buildings where large glass exteriors reflected outdoor vegetation. Klem et al. (2009) and Borden et al. (2010) also found that reflected outdoor vegetation associated positively with collisions.

(4) Black hole or passage effect.—Although this factor was not often mentioned in the bird-window collision literature, it was suggested in Sheppard and Phillips (2015). The black hole or passage effect is the deceptive appearance of a cavity or darkened ledge that certain species of bird typically approach with speed when seeking roosting sites. The deception is achieved when shadows from awnings or the interior light conditions give the appearance of cavities or protected ledges. This factor appears potentially to be nuanced variations on transparency or reflectance or possibly an interaction effect of both of these factors.

(5) Window or façade extent.—Klem et al. (2009), Borden et al. (2010), Hager et al. (2013), and Ocampo-Peñuela et al. (2016) reported increased collision fatalities at buildings with larger reflective façades or higher proportions of façades composed of windows. However, Porter and Huang (2015) found a negative relationship between fatalities found and proportion of façade that was glazed.

(6) Size of window.—According to Kahle et al. (2016), collision rates were higher on large-pane windows compared to small-pane windows.

(7) Type of glass.—Klem et al. (2009) found that collision fatalities associated with the type of glass used on buildings. Otherwise, little attention has been directed towards the types of glass in buildings.

(8) Lighting.—Parkins et al. (2015) found that light emission from buildings correlated positively with percent glass on the façade, suggesting that lighting is linked to the extent of windows. Zink and Eckles (2010) reported fatality reductions, including an 80% reduction at a Chicago high-rise, upon the initiation of the Lights-out Program.

However, Zink and Eckles (2010) provided no information on their search effort, such as the number of searches or search interval or search area around each building.

(9) Height of structure.—I found little if any hypothesis-testing related to building height, including whether another suite of factors might relate to collision victims of high-rises. Are migrants more commonly the victims of high-rises or of smaller buildings?

(10) Orientation of façade.—Some studies tested façade orientation, but not convincingly. Confounding factors such as the extent and types of windows would require large sample sizes of collision victims to parse out the variation so that some portion of it could be attributed to orientation of façade. Whether certain orientations cause disproportionately stronger or more realistic-appearing reflections ought to be testable through measurement, but counting dead birds under façades of different orientations would help.

(11) Structural layout.—Bird-safe building guidelines have illustrated examples of structural layouts associated with high rates of bird-window collisions, but little attention has been directed towards hazardous structural layouts in the scientific literature. An exception was Johnson and Hudson (1976), who found high collision rates at 3 stories of glassed-in walkways atop an open breezeway, located on a break in slope with trees on one side of the structure and open sky on the other, Washington State University.

(12) Context in urban-rural gradient.—Numbers of fatalities found in monitoring have associated negatively with increasing developed area surrounding the building (Hager et al. 2013), and positively with more rural settings (Kummer et al. 2016a).

(13) Height, structure and extent of vegetation near building.—Correlations have sometimes been found between collision rates and the presence or extent of vegetation near windows (Hager et al. 2008, Borden et al. 2010, Kummer et al. 2016a, Ocampo-Peñuela et al. 2016). However, Porter and Huang (2015) found a negative relationship between fatalities found and vegetation cover near the building. In my experience, what probably matters most is the distance from the building that vegetation occurs. If the vegetation that is used by birds is very close to a glass façade, then birds coming from that glass will be less likely to attain sufficient speed upon arrival at the façade to result in a fatal injury. Too far away and there is probably no relationship. But 30 to 50 m away, birds alighting from vegetation can attain lethal speeds by the time they arrive at the windows.

(14) Presence of birdfeeders.—Dunn (1993) reported a weak correlation ($r = 0.13$, $P < 0.001$) between number of birds killed by home windows and the number of birds counted at feeders. However, Kummer and Bayne (2015) found that experimental installment of birdfeeders at homes increased bird collisions with windows 1.84-fold.

(15) Relative abundance.—Collision rates have often been assumed to increase with local density or relative abundance (Klem 1989), and positive correlations have been measured (Dunn 1993, Hager et al. 2008). However, Hager and Craig (2014) found a negative correlation between fatality rates and relative abundance near buildings.

(16) Season of the year.—Borden et al. (2010) found 90% of collision fatalities during spring and fall migration periods. The significance of this finding is magnified by 7-day carcass persistence rates of 0.45 and 0.35 in spring and fall, rates which were considerably lower than during winter and summer (Hager et al. 2012). In other words, the concentration of fatalities during migration seasons would increase after applying seasonally-explicit adjustments for carcass persistence. Fatalities caused by collisions into the glass façades of the project's building would likely be concentrated in fall and spring migration periods.

(17) Ecology, demography and behavior.—Klem (1989) noted that certain types of birds were not found as common window-caused fatalities, including soaring hawks and waterbirds. Cusa et al. (2015) found that species colliding with buildings surrounded by higher levels of urban greenery were foliage gleaners, and species colliding with buildings surrounded by higher levels of urbanization were ground foragers. Sabo et al. (2016) found no difference in age class, but did find that migrants are more susceptible to collision than resident birds.

(18) Predatory attacks.—Panic flights caused by raptors were mentioned in 16% of window strike reports in Dunn's (1993) study. I have witnessed Cooper's hawks chasing birds into windows, including house finches next door to my home and a northern mocking bird chased directly into my office window. Predatory birds likely to collide with the project's windows would include Peregrine falcon, red-shouldered hawk, Cooper's hawk, and sharp-shinned hawk.

(19) Aggressive social interactions.—I found no hypothesis-testing of the roles of aggressive social interactions in the literature other than the occasional anecdotal account of birds attacking their self-images reflected from windows. However, I have witnessed birds chasing each other and sometimes these chases resulting in one of the birds hitting a window.

Window Collision Solutions

Given the magnitude of bird-window collision impacts, there are obviously great opportunities for reducing and minimizing these impacts going forward. Existing structures can be modified or retrofitted to reduce impacts, and proposed new structures can be more carefully sited, designed, and managed to minimize impacts. However, the costs of some of these measures can be high and can vary greatly, but most importantly the efficacies of many of these measures remain uncertain. Both the costs and effectiveness of all of these measures can be better understood through experimentation and careful scientific investigation. **Post-construction fatality monitoring should be an essential feature of any new building project**.

Below is a listing of mitigation options, along with some notes and findings from the literature.
Any new project should be informed by preconstruction surveys of daytime and nocturnal flight activity. Such surveys can reveal the one or more façades facing the prevailing approach direction of birds, and these revelations can help prioritize where certain types of mitigation can be targeted. It is critical to formulate effective measures prior to construction, because post-construction options will be limited, likely more expensive, and probably less effective.

(1) Retrofitting to reduce impacts
(1A) Marking windows
(1B) Managing outdoor landscape vegetation
(1C) Managing indoor landscape vegetation
(1D) Managing nocturnal lighting

(1A) Marking windows.—Whereas Klem (1990) found no deterrent effect from decals on windows, Johnson and Hudson (1976) reported a fatality reduction of about 69% after placing decals on windows. In an experiment of opportunity, Ocampo-Peñuela et al. (2016) found only 2 of 86 fatalities at one of 6 buildings – the only building with windows treated with a bird deterrent film. At the building with fritted glass, bird collisions were 82% lower than at other buildings with untreated windows. Kahle et al. (2016) added external window shades to some windowed façades to reduce fatalities 82% and 95%. Many external and internal glass markers have been tested experimentally, some showing no effect and some showing strong deterrent effects (Klem 1989, 1990, 2009, 2011; Klem and Saenger 2013; Rössler et al. 2015).

Following up on the results of Johnson and Hudson (1976), I decided to mark windows of my home, where I have documented 5 bird collision fatalities between the time I moved in and 6 years later. I marked my windows with decals delivered to me via US Postal Service from a commercial vendor. I have documented no fatalities at my windows during the 8 years hence. On 8 December 2018, I photographed a ruby-crowned kinglet pulling up short of my window (Figure 3), right at one of my installed markers. In my assessment, markers can be effective in some situations.

Figure 3. *Ruby-crowned kinglet puts on the brakes in front of a decal I applied to mark windows of my home, 8 December 2018. This window killed birds prior to marking, but I have found no window collision victims since marking the windows. Windows with attractive built-in marking are commercially available.*

(2) Siting and Designing to minimize impacts
(2A) Deciding on location of structure
(2B) Deciding on façade and orientation
(2C) Selecting type and sizes of windows
(2D) Designing to minimize transparency through two parallel façades
(2E) Designing to minimize views of interior plants
(2F) Landscaping to increase distances between windows and trees and shrubs

(3) Monitoring for adaptive management to reduce impacts
(3A) Systematic monitoring for fatalities to identify seasonal and spatial patterns
(3B) Adjust light management, window marking and other measures as needed.

Guidelines on Building Design

If the project goes forward, it should at a minimum adhere to available guidelines on building design intended to minimize collision hazards to birds. The American Bird Conservancy (ABC) produced an excellent set of guidelines recommending actions to: (1) Minimize use of glass; (2) Placing glass behind some type of screening (grilles, shutters, exterior shades); (3) Using glass with inherent properties to reduce collisions, such as patterns, window films, decals or tape; and (4) Turning off lights during migration seasons (Sheppard and Phillips 2015). The City of San Francisco (San Francisco Planning Department 2011) also has a set of building design guidelines, based on the excellent guidelines produced by the New York City Audubon Society (Orff et al. 2007). The ABC document and both the New York and San Francisco documents provide excellent alerting of potential bird-collision hazards as well as many visual examples. The San Francisco Planning Department's (2011) building design guidelines are more comprehensive than those of New York City, but they could have gone further. For example, the San Francisco guidelines probably should have also covered scientific monitoring of impacts as well as compensatory mitigation for impacts that could not be avoided, minimized or reduced. Monitoring and the use of compensatory mitigation should be incorporated at any new building project because the measures recommended in the available guidelines remain of uncertain effectiveness, and even if these measures are effective, they will not reduce collision fatalities to zero. The only way to assess effectiveness and to quantify post-construction fatalities is to monitor the project for fatalities.

CUMULATIVE IMPACTS

The SEIR (City of Pleasanton 2015) applies the list approach for analyzing cumulative effects. This list approach merely identified a few other commercial projects that had been approved at the time, and was admittedly not exhaustive; it did not include existing projects. The approach used by City of Pleasanton informed nothing about the cumulative impacts of projects on bird-window collisions, nor did it discuss cumulative effects on biological resources at all.

The four projects listed by City of Pleasanton (2015), along with the proposed project, would total 2.3 million square feet of commercial floor space. I quantified the ratio of window to floor space at 12 office and hotel building projects in the Bay Area in units of m^2 of windows to square feet of floor space (garage parking not included). The mean was 0.033 (95% CI: 0.004 to 0.058). This ratio multiplied by the cumulative floor space in City of Pleasanton's analysis would predict 75,357 m^2 of windows on building façades (95% CI: 9,902 to 132,280 m^2). This window space applied to the mean annual bird collision fatalities per m^2 of glass (see above) would be 5,727 (95% CI: 426 to 14,419). The 50-year toll at these buildings would be predicted as 286,355 (95% CI: 21,289 to 720927). These avian fatality predictions would be significant under any type of analysis, and they demonstrate the importance and the need for performing an appropriate cumulative effects analysis on bird-window collisions caused by the proliferation of glass in building façades. A project-specific EIR needs to be prepared to provide such an analysis.

MITIGATION

Window and Vehicle Collisions

City of Pleasanton (2015, 2016, 2019) and ESA (2017) propose no mitigation measures for bird-window collisions or wildlife-vehicle that would be caused by the project.

Transparency and reflectance increase collision risk, but there are materials available to minimize the effects of transparency and reflectance, including the glass itself. Landscaping around buildings can also affect collision risk, but risks can be minimized by carefully planning the landscaping. Interior lighting also increases risk to nocturnal migrants, but the effects of interior lighting is readily mitigated by minimizing use of lights as well as the lighting of any interior landscaping. I recommend consulting available guidelines on minimizing impacts to wildlife caused by windows. For example, the American Bird Conservancy produced an excellent set of guidelines recommending: (1) Minimize use of glass; (2) Placing glass behind some type of screening (grilles, shutters, exterior shades); (3) Using glass with inherent properties to reduce collisions, such as patterns, window films, decals or tape; and (4) Turning off lights during migration seasons (Sheppard and Phillips 2015). The City of San Francisco (San Francisco Planning Department 2011) also has a set of building design guidelines, based on the excellent guidelines produced by the New York City Audubon Society (Orff et al. 2007).

In addition to measures for minimizing wind collision impacts, I recommend fatality monitoring around the buildings' perimeters. Such monitoring should be scientific, adhering to standards developed for fatality monitoring in other window collision studies and along electrical circuits and at wind projects.

Speed limits should be slowed wherever roads cross streams or canals or any natural low spots in the local terrain. Wildlife crossings can also be constructed at these locations to facilitate safe passage by wildlife.

Fund Wildlife Rehabilitation Facilities

Compensatory mitigation ought also to include funding contributions to wildlife rehabilitation facilities to cover the costs of injured animals that will be delivered to these facilities for care. Most of the wildlife injuries will likely be caused by window collisions. But the project's impacts can also be offset by funding the treatment of injuries to animals caused by other buildings, electric lines, cars, and cats.

Thank you for your attention,

Shawn Smallwood, Ph.D.

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Curriculum Vitae

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Born May 3, 1963 in
Sacramento, California.
Married, father of two.

Ecologist

Expertise

- Finding solutions to controversial problems related to wildlife interactions with human industry, infrastructure, and activities;
- Wildlife monitoring and field study using GPS, thermal imaging, behavior surveys;
- Using systems analysis and experimental design principles to identify meaningful ecological patterns that inform management decisions.

Education

Ph.D. Ecology, University of California, Davis. September 1990.
M.S. Ecology, University of California, Davis. June 1987.
B.S. Anthropology, University of California, Davis. June 1985.
Corcoran High School, Corcoran, California. June 1981.

Experience

- 477 professional publications, including:
- 81 peer reviewed publications
- 24 in non-reviewed proceedings
- 370 reports, declarations, posters and book reviews
- 8 in mass media outlets
- 87 public presentations of research results at meetings
- Reviewed many professional papers and reports
- Testified in 4 court cases.

Editing for scientific journals: Guest Editor, *Wildlife Society Bulletin*, 2012-2013, of invited papers representing international views on the impacts of wind energy on wildlife and how to mitigate the impacts. Associate Editor, *Journal of Wildlife Management*, March 2004 to 30 June 2007. Editorial Board Member, *Environmental Management*, 10/1999 to 8/2004. Associate Editor, *Biological Conservation*, 9/1994 to 9/1995.

Member, Alameda County Scientific Review Committee (SRC), August 2006 to April 2011. The

five-member committee investigated causes of bird and bat collisions in the Altamont Pass Wind Resource Area, and recommended mitigation and monitoring measures. The SRC reviewed the science underlying the Alameda County Avian Protection Program, and advised the County on how to reduce wildlife fatalities.

Consulting Ecologist, 2004-2007, California Energy Commission (CEC). Provided consulting services as needed to the CEC on renewable energy impacts, monitoring and research, and produced several reports. Also collaborated with Lawrence-Livermore National Lab on research to understand and reduce wind turbine impacts on wildlife.

Consulting Ecologist, 1999-2013, U.S. Navy. Performed endangered species surveys, hazardous waste site monitoring, and habitat restoration for the endangered San Joaquin kangaroo rat, California tiger salamander, California red-legged frog, California clapper rail, western burrowing owl, salt marsh harvest mouse, and other species at Naval Air Station Lemoore; Naval Weapons Station, Seal Beach, Detachment Concord; Naval Security Group Activity, Skaggs Island; National Radio Transmitter Facility, Dixon; and, Naval Outlying Landing Field Imperial Beach.

Fulbright Research Fellow, Indonesia, 1988. Tested use of new sampling methods for numerical monitoring of Sumatran tiger and six other species of endemic felids, and evaluated methods used by other researchers.

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EXHIBIT B

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August 16, 2019

Michael Lozeau
Lozeau | Drury LLP
410 12th Street, Suite 250
Oakland, CA 94607

Subject: Comments on the Johnson Drive Economic Development Zone Project

Dear Mr. Lozeau,

We have reviewed the September 2015 Draft Supplemental Environmental Impact Report (DSEIR), March 2016 Supplemental Environmental Impact Report Response to Comments ("Responses"), and the following updated analyses: the July 2019 Final Technical Memo on Updated Air Quality Analysis ("AQ Memo"), the January 2019 Final Health Risk Assessment Memo ("HRA Memo"), and the July 2019 Final Greenhouse Gas Technical Analysis ("GHG Analysis") for the Johnson Drive Economic Development Zone Project ("Project") located in the City of Pleasanton ("City"). The Project proposes 227,940 square feet of general retail space, 148,000 square feet of club retail space including a fuel station, 27,550 square feet of light industrial space, a 230-room hotel, and up to 800 parking spaces on the 40-acre Project site.

Our review concludes that the DSEIR, AQ Memo, and GHG Analysis fail to adequately evaluate the Project's Air Quality and Greenhouse Gas impacts. As a result, emissions associated with construction and operation of the proposed Project are underestimated and inadequately addressed. An updated SEIR should be prepared to adequately assess and mitigate the potential air quality impacts that the project may have on the surrounding environment.

Air Quality

Unsubstantiated Input Parameters Used to Estimate Project Emissions

The AQ Memo and GHG Analysis rely on emissions calculated from the California Emissions Estimator Model Version CalEEMod.2016.3.2 ("CalEEMod").[1] CalEEMod provides recommended default values based on site specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but CEQA requires that such changes be justified by substantial evidence.[2] Once all of the values are inputted into the model, the Project's construction and operational emissions are calculated, and "output files" are generated. These

[1] CalEEMod website, *available at*: http://www.caleemod.com/
[2] CalEEMod User's Guide, p. 2, 9, *available at:* http://www.caleemod.com/

output files disclose to the reader what parameters were utilized in calculating the Project's air pollutant and GHG emissions, and make known which default values were changed as well as provide a justification for the values selected.[3]

When reviewing the Project's CalEEMod output files, provided in Appendix A to the AQ Memo, we found that several of the values inputted into the models are not consistent with information disclosed in the SEIR and updated analyses. Thus, the Project's construction and operational emissions may be underestimated. An updated SEIR should be prepared to include an updated air quality analysis that adequately evaluates the impacts that construction and operation of this Project will have on local and regional air quality.

Failure to Account for Vendor Trips

The AQ Memo's construction CalEEMod model fails to include the vendor truck trips that are anticipated to occur during Project construction. As a result, the Project's construction emissions are underestimated.

The AQ Memo states that the air quality analysis "assumed a total of 1,360 truck trips for soil import, 2,040 concrete truck trips, 3,330 vendor truck trips, and 39 paving truck trips over the entire construction duration" (AQ Memo, p. 11 – 12). However, review of the Trips and VMT table in the AQ Memo's construction CalEEMod output files demonstrates that the Project Applicant failed to model any number of vendor trips (see excerpt below) (AQ Memo, pp. 59).

[3] CalEEMod User's Guide, p. 7, 13, *available at:* http://www.caleemod.com/ (A key feature of the CalEEMod program is the "remarks" feature, where the user explains why a default setting was replaced by a "user defined" value. These remarks are included in the report.)

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Drainage/Utilities/Sub-	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Building Construction	14	300.00	0.00	2,100.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Paving	12	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Building Construction	11	138.00	0.00	1,944.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Grading/Excavation	14	36.00	0.00	1,240.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Foundations/Concrete	9	24.00	0.00	1,860.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Building Construction	9	304.00	0.00	2,612.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Architectural Coatings	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Paving	6	6.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT

As the above excerpt demonstrates, the AQ Memo failed to model any vendor trips during Project construction. Furthermore, review of the "User Entered Comments & Non-Default Data" table in the AQ Memo's construction CalEEMod output files demonstrates that the Applicant artificially reduced the default number of vendor trips estimated by CalEEMod to zero during several phases of construction (see excerpt below) (AQ Memo, p. 51).

Table Name	Column Name	Default Value	New Value
tblTripsAndVMT	VendorTripNumber	301.00	0.00
tblTripsAndVMT	VendorTripNumber	301.00	0.00
tblTripsAndVMT	VendorTripNumber	301.00	0.00

As you can see in the excerpt above, the Applicant artificially reduced the default number of construction vendor trips to zero. As a result, the AQ Memo underestimates the total number of vendor trips anticipated to occur during construction by 3,330 trips.

Failing to account for the correct number of vendor trips that would occur during Project construction presents a significant issue. The number of vendor trips and associated vehicle miles traveled (VMT) are used by CalEEMod to determine both the exhaust emissions associated with on-road vehicle use and

fugitive dust emissions.[4] Therefore, by failing to account for the correct number of vendor trips that would be required during the entire construction duration, the construction emissions estimates provided in the AQ Memo are incorrect and should not be used to determine Project significance.

Failure to Include All Land Uses in Operational Air Model

Review of the AQ Memo's CalEEMod output files demonstrates that not all of the land uses proposed by the DSEIR and Responses were included in the operational CalEEMod model. As a result, the Project's operational emissions are underestimated.

According to the Responses and DSEIR, the Project would include the construction of 227,940 square feet of general retail uses, 148,000 square feet of club retail uses including a fuel station, a 230-room hotel, and up to 800 parking spaces (Responses, p. 2-3; DSEIR, p. 3-8). Additionally, an existing 38,903 square feet of general retail uses and 27,550 square feet of industrial uses will be maintained and operated as part of the proposed project (see excerpt below) (Table 3-2, Responses, p. 2-3).

TABLE 3-2
SUMMARY OF EDZ DEVELOPMENT CHARACTERISTICS

Land Use or Other Characteristic	Unit	Existing Development	Phase I Development (Parcels 6, 9, and 10)	Full Buildout[1]
Employees	Jobs	369	~~642~~610	~~1,149~~678
General Retail	Square Feet	38,903	~~62,403~~43,903	~~246,440~~227,940
Club Retail	Square Feet	-	148,000	148,000
Commercial Service	Square Feet	123,165	123,165	-
Office	Square Feet	15,070	15,070	-
Industrial	Square Feet	27,550[3]	27,550	27,550
Hotel	Square Feet	-	~~88,000~~132,000[4]	~~88,000~~132,000[4]
Institutional/Religious	Square Feet	20,000	20,000	-
Total new gross building space	Square Feet	-	~~259,500~~285,000	~~285,302~~310,802
Total gross building space	Square Feet	224,688	~~484,188~~509,688	~~509,990~~535,490

1 Inclusive of all phases of development, including Phase I.
2 ~~Includes 100% of population and 50% of employment.~~ Revised consistent with Final SEIR Response to Comments Appendix A (Johnson Drive EDZ Urban Decay Analysis, prepared by ALH Urban & Regional Economics, March 2016)
3 Does not include square footage of structures demolished independently of the proposed EDZ.
4 231 rooms (previously 140 to 150 rooms).

Ac = Acres
SF = Square Feet

SOURCE: Appendix C (Brion & Associates, 2015).

As the above excerpt demonstrates, the Project will maintain and operate the existing 27,550 square feet of industrial space on the site. As a result, the Applicant should have included this land use in the operational air model to estimate the resulting emissions. However, review of the AQ Memo's

[4] CalEEMod User's Guide, Appendix A, p. 13, *available at:* http://www.caleemod.com/

operational CalEEMod output files demonstrates that the existing 27,550 square foot industrial land use was entirely omitted from the full buildout operational model (see excerpt below) (AQ Memo, pp. 184).

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	184.04	1000sqft	4.22	184,037.00	0

As the excerpt above demonstrates, the Project Applicant failed to include the existing 27,550 square foot industrial space in the full buildout operational air model. Because the industrial land use will be maintained on site and operated as part of the Project, the Applicant should have inputted the 27,550 square foot industrial land use into the operational CalEEMod model. The land use type and size features are used throughout CalEEMod to determine default variable and emission factors that go into the model's calculations.[5] For example, the square footage of a land use is used for certain calculations such as determining the wall space to be painted (i.e., VOC emissions from architectural coatings) and volume that is heated or cooled (i.e., energy impacts). Furthermore, CalEEMod assigns each land use type with its own set of energy usage emission factors.[6] By completely omitting the existing industrial space that will be operational as part of the project, the AQ Memo fails to account for all emissions that would be generated by Project operation. As a result, the Project's operational emissions are greatly underestimated.

Use of Incorrect Land Use Size in Operational Air Model

[5] CalEEMod User's Guide, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/upgrades/2016.3/01_user-39-s-guide2016-3-1.pdf?sfvrsn=2, p. 17
[6] CalEEMod User's Guide, Appendix D, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/upgrades/2016.3/05_appendix-d2016-3-1.pdf?sfvrsn=2

Review of the Project's CalEEMod output files also demonstrates that the size of the general retail land use was underestimated in the operational model. Review of the Responses demonstrates that the total size of the existing and newly constructed general retail land use would be approximately 227,940 square feet (see excerpt below) (Table 3-2, Responses, p. 2-3).

TABLE 3-2
SUMMARY OF EDZ DEVELOPMENT CHARACTERISTICS

Land Use or Other Characteristic	Unit	Existing Development	Phase I Development (Parcels 6, 9, and 10)	Full Buildout[1]
Employees	Jobs	369	~~642~~610	~~1,149~~678
General Retail	Square Feet	38,903	~~62,403~~43,903	~~246,440~~227,940
Club Retail	Square Feet	-	148,000	148,000
Commercial Service	Square Feet	123,165	123,165	-
Office	Square Feet	15,070	15,070	-
Industrial	Square Feet	27,550[3]	27,550	27,550
Hotel	Square Feet	-	~~88,000~~132,000[4]	~~88,000~~132,000[4]
Institutional/Religious	Square Feet	20,000	20,000	-
Total new gross building space	Square Feet	-	~~259,500~~285,000	~~285,302~~310,802
Total gross building space	Square Feet	**224,688**	~~484,188~~509,688	~~509,990~~535,490

1 Inclusive of all phases of development, including Phase I
2 ~~Includes 100% of population and 50% of employment.~~ Revised consistent with Final SEIR Response to Comments Appendix A (Johnson Drive EDZ Urban Decay Analysis, prepared by ALH Urban & Regional Economics, March 2016)
3 Does not include square footage of structures demolished independently of the proposed EDZ.
4 231 rooms (previously 140 to 150 rooms).

Ac = Acres
SF = Square Feet

SOURCE: Appendix C (Brion & Associates, 2015).

As the above excerpt demonstrates, full buildout of the Project will include a total of 227,940 square feet of general retail space. However, review of the AQ Memo's operational CalEEMod output files demonstrates that the Project Applicant inputted two retail strip mall land uses with sizes of 5,000 square feet and 184,037 square feet, totaling approximately 189,037 square feet (see excerpt below) (AQ Memo, pp. 47, pp. 117, pp. 151, pp. 184).

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	184.04	1000sqft	4.22	184,037.00	0

As you can see in the excerpt above, the Project Applicant inputted 189,037 square feet of retail space into the operational air model. While this land use size includes the newly constructed retail space, it does not include the existing 38,903 square feet of retail space that will be maintained and operated as part of the Project. Thus, the AQ Memo's operational air model underestimates the total size of the retail space that will be operated on the Project site by approximately 38,903 square feet. As previously mentioned, the land use type and size features are utilized by CalEEMod to determine default variable and emission factors that go into the model's calculations.[7] Thus, by underestimating the size of the retail land use within the operational air model, the operational emissions generated by the proposed Project are underestimated and should not be relied upon to determine Project significance.

Updated Analysis Indicates Significant Impact

In an effort to accurately determine the Project's emissions, we prepared two updated CalEEMod models, one for construction emissions and one for operational emissions. In our updated construction model, we inputted a total of 3,330 vendor trips. In our updated operational model, we inputted 27,550 square feet of industrial space as well as 227,940 square feet of retail space.

When correct, site-specific input parameters are used to model construction emissions, we find that the Project's construction-related NO_x emissions increase significantly when compared to the AQ Memo's construction air model. Furthermore, we find that the Project's construction-related NO_x emissions exceed the 54 pounds per day (lbs/day) threshold set forth by the BAAQMD (see table below).[8]

Mitigated Average Daily Construction Emissions (lbs/day)	
Model	**NOx**
AQ Memo	41.93
SWAPE	96.22
Percent Increase	**129%**
BAAQMD Regional Threshold (lbs/day)	54
Exceed?	***Yes***

When correct input parameters are used to model the Project's construction emissions, NO_x emissions increase by approximately 129% and exceed the BAAQMD's significance threshold of 54 lbs/day.

In addition, when correct, site-specific input parameters are used to model operational emissions, we find that the Project's PM_{10} emissions increase significantly when compared to the AQ Memo's model. Furthermore, we find that the Project's operational PM_{10} emissions exceed the 15 tons/year threshold set forth by the BAAQMD (see table below).

[7] CalEEMod User's Guide, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/upgrades/2016.3/01_user-39-s-guide2016-3-1.pdf?sfvrsn=2, p. 17

[8] "California Environmental Quality Act Air Quality Guidelines." BAAQMD, May 2017. *Available at:* http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en, Table 2-1, p. 2-2

Maximum Annual Operational Emissions (tons/year)	
Model	**PM_{10}**
AQ Memo	14.11
SWAPE	17.32
Percent Increase	**22.8%**
BAAQMD Regional Threshold (tons/year)	15
Exceed?	***Yes***

When correct input parameters are used to model the Project's emissions, operational PM_{10} emissions increase by approximately 22.8% and exceed the BAAQMD's significance threshold of 15 tons/year.

Our updated models demonstrate that when the Project's construction and operational emissions are estimated using correct input parameters, the Project would result in a potentially significant air quality impact that was not identified or addressed in the AQ Memo. As a result, an updated SEIR should be prepared to include an updated air pollution model that adequately estimates the Project's construction and operational emissions, and mitigation measures should be identified and incorporated to reduce these emissions to a less-than-significant level.

Greenhouse Gas

Failure to Adequately Evaluate the Project's Greenhouse Gas Emissions

The GHG Analysis asserts that the proposed Project is consistent with the City of Pleasanton's Climate Action Plan (CAP), 2017 Climate Change Scoping Plan Update, and Plan Bay Area 2040, and thus concludes that the Project would result in a less than significant GHG impact. The GHG Analysis states,

> "Thus, the City as Lead Agency has determined that the Project would not have a significant effect on the environment if the Project is found to be consistent with the applicable regulatory plans and policies to reduce GHG emissions, including the emission reduction measures discussed within the 2017 Climate Change Scoping Plan Update, Plan Bay Area 2040, and the City's Climate Action Plan" (GHG Analysis, p. 36).

As the above excerpt demonstrates, the Applicant claims that the Project would result in a less than significant GHG impact as a result of consistency with the City's CAP, the 2017 Climate Change Scoping Plan Update, and the Plan Bay Area 2040. This conclusion, however, is incorrect and unsubstantiated. First, the City's CAP is outdated and cannot be used to determine Project significance. Additionally, the 2017 Scoping Plan and Plan Bay Area 2040 do not qualify as CAPs and thus cannot be used to determine significance. Finally, the GHG Analysis fails to evaluate the Project's GHG emissions using applicable significance thresholds.

First, as the GHG Analysis acknowledges, the City's CAP is not applicable to the Project's period of operation and cannot be utilized to determine significance. The GHG Analysis states,

> "[T]he Pleasanton CAP is considered qualified through the year 2020. Because full Project buildout would not occur until 2031, the first BAAQMD threshold noted above—compliance

with a qualified Climate Action Plan—should only be applied using a CAP that is qualified to be consistent with SB 32's target for 2030. Accordingly, compliance or consistency with the City of Pleasanton CAP does not represent a sufficient stand-alone threshold for analyzing the GHG impacts of the Project because it is not qualified out to 2030" (GHG Analysis, p. 34).

As the GHG Analysis acknowledges, the City's CAP is only applicable through the year 2020. Thus, the GHG Analysis attempts to demonstrate Project consistency with the 2017 Climate Change Scoping Plan Update and Plan Bay Area 2040 (GHG Analysis, p. 34). However, these regulatory plans do not meet the criteria for an officially adopted GHG reduction program, commonly referred to as a Climate Action Plan, for use as a threshold of significance for GHG emissions. As the CEQA Guidelines §§ 15064.4(b)(3) and 15183.5(b)(1) make clear, a qualified CAP "must be adopted by the relevant public agency through a public review process" and should include:[9]

(1) **Inventory**: Quantify GHG emissions, both existing and projected over a specified time period, resulting from activities (e.g., projects) within a defined geographic area (e.g., lead agency jurisdiction);
(2) **Establish GHG Reduction Goal**: Establish a level, based on substantial evidence, below which the contribution to GHG emissions from activities covered by the plan would not be cumulatively considerable;
(3) **Analyze Project Types**: Identify and analyze the GHG emissions resulting from specific actions or categories of actions anticipated within the geographic area;
(4) **Craft Performance Based Mitigation Measures**: Specify measures or a group of measures, including performance standards, that substantial evidence demonstrates, if implemented on a project-by-project basis, would collectively achieve the specified emissions level;
(5) **Monitoring**: Establish a mechanism to monitor the CAP progress toward achieving said level and to require amendment if the plan is not achieving specified levels;

Here, neither the 2017 Climate Change Scoping Plan nor the Pan Bay Area 2040 include the above-listed requirements to be considered a qualified CAP for the City. Therefore, the GHG Analysis' reliance on compliance with these regulatory plans and policies is incorrect and should not be used as a threshold with which to determine the significance of the Project's GHG impact. While these regulatory plans may have the effect of reducing a project's GHG emissions, neither of them includes: inventorying the City's contribution to the State's GHG emissions, establishing the City's fair share in GHG reduction goal, quantifying the GHG impact of various project types in the City, crafting performance-based mitigation measures that quantifiably meets said City reduction goal, or including a City monitoring program that ensures the plan's effectiveness. As such, compliance with these plans fails to translate into an applicable, approved measure of Project significance. Therefore, because the City's CAP is outdated and inapplicable, and because neither the 2017 Climate Change Scoping Plan nor the Plan Bay Area 2040 qualify as a CAP, the Project Applicant cannot rely upon consistency with these plans to determine Project significance.

[9] "2019 CEQA Statute & Guidelines." Association of Environmental Professionals (AEP), January 2019, *available at:* http://resources.ca.gov/ceqa/docs/2019_CEQA_Statutes_and_Guidelines.pdf, p. 157-158, p. 229-230.

In addition to the Project's incorrect reliance upon consistency with an outdated CAP and inapplicable plans to determine Project significance, the Applicant also fails to quantitatively evaluate Project emissions. The GHG Analysis quantifies GHG emissions, but fails to compare them to any applicable threshold, stating:

> "[T]his quantitative analysis is provided for informational purposes and is not presented as the method to analyze GHG impacts or to demonstrate compliance with a quantitative threshold. Instead, the analysis is presented to quantify the Project's potential GHG emissions in order to inform the qualitative analysis. These figures can be used to determine whether emissions reductions are possible, and, if so, from which sources, as well as to demonstrate consistency with certain GHG reduction plans and policies" (pp. 1918).

Furthermore, the GHG Analysis claims that BAAQMD efficiency thresholds are not applicable to the Project, stating:

> "[T]he BAAQMD efficiency threshold (4.6 MT of CO_2e per service population) was calculated by dividing the AB 32 GHG reduction target for land use development emissions in California by the estimated 2020 population and employment level. The BAAQMD efficiency threshold is tied directly to AB 32 and statewide emission reduction goals for 2020… similar to the City's CAP, this threshold does not address the statewide emissions target mandated by SB 32 for 2030" (GHG Analysis, p. 35).

In the above excerpts, the GHG Analysis asserts that the BAAQMD's 2020 GHG efficiency threshold is not applicable to the Project, as it will be operational after the year 2020. Therefore, in order to adequately evaluate the proposed Project's GHG emissions, the Applicant should have compared the Project's 2030 GHG efficiency to the applicable "Substantial Progress" efficiency threshold of 2.6 MT CO_2e per service population per year (MT CO_2e/SP/year). The recommended 2030 per service population "Substantial Progress" efficiency threshold was developed by the Association of Environmental Professionals (AEP) in its October 2016 *Beyond 2020 and Newhall: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California* white paper.[10] According to the AEP white paper, this updated threshold accounts for the more stringent emissions reduction targets set forth by Senate Bill 32 (SB 32) as well as the anticipated 2030 population. Because operation of the proposed Project will begin after 2020 and is subject to SB 32 emission reduction targets, as the GHG Memo acknowledges, the "Substantial Progress" threshold is applicable and should be used to determine the significance of the Project's 2030 GHG emissions.

Furthermore, other recent projects within BAAQMD jurisdiction have relied upon the 2030 "Substantial Progress" threshold to determine the significance of GHG emissions impacts. For example, both the 4300 Stevens Creek Boulevard Mixed-Use Project and the Park View Towers Project located in the City of San Jose utilized the "Substantial Progress" efficiency metric to evaluate their respective GHG

[10] "Beyond 2020 and Newhall: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California." Association of Environmental Professionals, October 2016, *available at*: http://host8.viethwebhosting.com/~caep/docs/AEP-2016_Final_White_Paper.pdf

emissions impacts.[11,12] Thus, the "Substantial Progress" efficiency threshold should be used to adequately assess the GHG impacts resulting from projects within BAAQMD's jurisdiction, including the Johnson Drive Economic Development Zone Project.

Updated Analysis Indicates Significant Greenhouse Gas Impact

In an effort to adequately assess the Project's GHG impact, we prepared a quantitative evaluation of the Project's anticipated GHG emissions. In order to conduct a detailed review, we prepared a per service population GHG efficiency analysis for 2030 using GHG emissions estimated by the GHG Analysis.

The GHG Analysis determines that full buildout of the Project will generate approximately 15,617 metric tons of CO_2 equivalents per year (MT CO_2e/year) (Table 6, GHG Analysis, p. 39). According to the California Air Pollution Control Officers Association's (CAPCOA) CEQA & Climate Change report, service population is defined as "the sum of the number of residents and the number of jobs supported by the project."[13] The DSEIR determines that the Project will generate approximately 678 employees (DSEIR, Economic Impact Analysis, p. 65). Dividing the Project's GHG emissions by a service population of approximately 678 people, we find the Project would emit approximately 23 MT CO_2e/SP/year. When we compare the Project's per service population GHG emissions to the 2030 "Substantial Progress" efficiency threshold of 2.6 MT CO_2e/SP/year, we find that the Project would result in a significant GHG impact (see table below).

Annual Greenhouse Gas Emissions		
Source	**Project Emissions**	**Unit**
Total Annual Emissions	15,617	MT CO_2e/year
Maximum Service Population	678	Employees
Per Service Population Annual Emissions	**23.0**	**MT CO_2e/SP/year**
2030 Substantial Progress Project Level Efficiency Threshold	2.6	MT CO_2e/SP/year
Exceed?	***Yes***	**-**

As you can see in the table above, the Project's total GHG per service population emissions of 23 MT CO_2e/SP/year significantly exceeds the 2030 "Substantial Progress" efficiency thresholds, thus resulting in a potentially significant impact. As previously discussed, issues with the Applicant's CalEEMod air modeling result in underestimated construction and operational emissions. Thus, the Project's GHG impacts likely exceed thresholds to a greater extent than is stated here. Based on the results of this analysis, an updated SEIR must be prepared to include air modeling with correct input parameters, as well as an updated GHG analysis that adequately evaluates and mitigates the Project's potential impacts.

[11] 2018 Draft EIR for the 4300 Stevens Creek Boulevard Mixed-Use Project, p. 84, *available at:* http://www.sanjoseca.gov/DocumentCenter/View/79518
[12] 2018 Addendum to the Final Supplemental EIR for the Park View Towers Project, p. 21, *available at:* http://www.sanjoseca.gov/DocumentCenter/View/80743
[13] "CEQA & Climate Change." January 2008, *available at:* http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA-White-Paper.pdf, p. 71-72.

SWAPE has received limited discovery regarding this project. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

Matt Hagemann, P.G., C.Hg.

Melanie Garcia

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	189.04	1000sqft	4.34	189,037.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
Land Use - Matches Project Applicant's model.
Construction Phase - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
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Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Trips and VMT - Matches Project Applicant's model.
Grading - Matches Project Applicant's model.
Architectural Coating - Matches Project Applicant's model.
Construction Off-road Equipment Mitigation - Matches Project Applicant's model.

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tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	738.00	300.00
tblTripsAndVMT	WorkerTripNumber	148.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.8689	22.8068	8.1017	0.0460	1.1941	0.3265	1.5206	0.4146	0.3055	0.7201	0.0000	4,358.1652	4,358.1652	0.4470	0.0000	4,369.3397
2021	1.0589	3.8764	1.1915	8.5200e-003	0.1673	0.0348	0.2020	0.0455	0.0328	0.0784	0.0000	816.6575	816.6575	0.0668	0.0000	818.3273
2030	1.5546	9.2455	4.6784	0.0328	1.0218	0.0433	1.0650	0.3536	0.0428	0.3965	0.0000	3,147.0585	3,147.0585	0.1638	0.0000	3,151.1537
2031	0.0110	0.0185	0.0401	7.0000e-005	4.1000e-004	8.3000e-004	1.2300e-003	1.0000e-004	8.3000e-004	9.3000e-004	0.0000	6.4385	6.4385	3.0000e-004	0.0000	6.4460
Maximum	**1.8689**	**22.8068**	**8.1017**	**0.0460**	**1.1941**	**0.3265**	**1.5206**	**0.4146**	**0.3055**	**0.7201**	**0.0000**	**4,358.1652**	**4,358.1652**	**0.4470**	**0.0000**	**4,369.3397**

2.1 Overall Construction

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.5276	20.9872	8.8289	0.0460	1.1941	0.2494	1.4436	0.4146	0.2477	0.6623	0.0000	4,358.1643	4,358.1643	0.4470	0.0000	4,369.3388
2021	1.0305	3.7889	1.2381	8.5200e-003	0.1673	0.0322	0.1995	0.0455	0.0319	0.0775	0.0000	816.6574	816.6574	0.0668	0.0000	818.3272
2030	1.4328	10.3179	5.3733	0.0328	1.0218	0.1298	1.1516	0.3536	0.1293	0.4830	0.0000	3,147.0580	3,147.0580	0.1638	0.0000	3,151.1532
2031	8.9200e-003	0.0290	0.0437	7.0000e-005	4.1000e-004	1.5300e-003	1.9300e-003	1.0000e-004	1.5300e-003	1.6300e-003	0.0000	6.4385	6.4385	3.0000e-004	0.0000	6.4460
Maximum	**1.5276**	**20.9872**	**8.8289**	**0.0460**	**1.1941**	**0.2494**	**1.4436**	**0.4146**	**0.2477**	**0.6623**	**0.0000**	**4,358.1643**	**4,358.1643**	**0.4470**	**0.0000**	**4,369.3388**

	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	N20	CO2e
Percent Reduction	**10.98**	**2.29**	**-10.51**	**0.00**	**0.00**	**-1.89**	**-0.28**	**0.00**	**-7.45**	**-2.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	9.5525	8.0409
2	**7-6-2020**	**10-5-2020**	8.0716	7.6801
3	**10-6-2020**	**1-5-2021**	7.1998	6.9608
4	**1-6-2021**	**4-5-2021**	4.6084	4.4997
40	**1-6-2030**	**4-5-2030**	0.7048	1.1471
41	**4-6-2030**	**7-5-2030**	3.1792	3.3669
42	**7-6-2030**	**10-5-2030**	4.0612	4.2473
43	**10-6-2030**	**1-5-2031**	2.8109	2.9238

44	**1-6-2031**	**4-5-2031**	0.0084	0.0108
		Highest	9.5525	8.0409

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	2.2063	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118
Energy	0.0363	0.3295	0.2768	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	1,812.5169	1,812.5169	0.0726	0.0202	1,820.3450
Mobile	4.7853	20.6799	45.0663	0.1278	9.9978	0.1455	10.1433	2.6839	0.1367	2.8207	0.0000	11,721.1523	11,721.1523	0.5290	0.0000	11,734.3768
Waste						0.0000	0.0000		0.0000	0.0000	197.3559	0.0000	197.3559	11.6634	0.0000	488.9410
Water						0.0000	0.0000		0.0000	0.0000	9.8637	65.3491	75.2127	1.0161	0.0245	107.9247
Total	**7.0278**	**21.0094**	**45.3489**	**0.1298**	**9.9978**	**0.1705**	**10.1683**	**2.6839**	**0.1618**	**2.8457**	**207.2196**	**13,599.0293**	**13,806.2489**	**13.2811**	**0.0447**	**14,151.5992**

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	2.2063	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118
Energy	0.0363	0.3295	0.2768	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	1,812.5169	1,812.5169	0.0726	0.0202	1,820.3450
Mobile	4.7853	20.6799	45.0663	0.1278	9.9978	0.1455	10.1433	2.6839	0.1367	2.8207	0.0000	11,721.1523	11,721.1523	0.5290	0.0000	11,734.3768
Waste						0.0000	0.0000		0.0000	0.0000	197.3559	0.0000	197.3559	11.6634	0.0000	488.9410
Water						0.0000	0.0000		0.0000	0.0000	9.8637	65.3491	75.2127	1.0161	0.0245	107.9247
Total	**7.0278**	**21.0094**	**45.3489**	**0.1298**	**9.9978**	**0.1705**	**10.1683**	**2.6839**	**0.1618**	**2.8457**	**207.2196**	**13,599.0293**	**13,806.2489**	**13.2811**	**0.0447**	**14,151.5992**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/9/2020	6	30	
2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	
8	Phase 1B-Foundation/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/1/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/26/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 7,984 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37
Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Welders	1	8.00	46	0.45

Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundation/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundation/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Excavators	2	8.00	158	0.38
Phase 2-Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41

Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Cranes	1	8.00	231	0.29
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Drainage/Utilities/Sub	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Building Construction	14	300.00	1,110.00	2,100.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Paving	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Building Construction	11	138.00	1,110.00	1,944.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Grading/Excavation	14	36.00	0.00	1,240.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Foundations/Concrete	9	24.00	0.00	1,860.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Building Construction	9	304.00	1,110.00	2,612.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Architectural Coatings	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Paving	6	6.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Phase 1A-Grading/Excavation - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2731	161.2731	0.0522	0.0000	162.5771
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.0903**	**0.0581**	**0.1484**	**0.0497**	**0.0534**	**0.1031**	**0.0000**	**161.2731**	**161.2731**	**0.0522**	**0.0000**	**162.5771**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

3.2 Phase 1A-Grading/Excavation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0451	0.8762	0.9879	1.8400e-003		0.0341	0.0341		0.0341	0.0341	0.0000	161.2729	161.2729	0.0522	0.0000	162.5769
Total	**0.0451**	**0.8762**	**0.9879**	**1.8400e-003**	**0.0903**	**0.0341**	**0.1244**	**0.0497**	**0.0341**	**0.0837**	**0.0000**	**161.2729**	**161.2729**	**0.0522**	**0.0000**	**162.5769**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

3.3 Phase 1B-Grading/Excavation - 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					0.1933	0.0000	0.1933	0.0887	0.0000	0.0887	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0284	96.0284	0.0311	0.0000	96.8049
Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1933**	**0.0384**	**0.2317**	**0.0887**	**0.0353**	**0.1240**	**0.0000**	**96.0284**	**96.0284**	**0.0311**	**0.0000**	**96.8049**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

3.3 Phase 1B-Grading/Excavation - 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	tons/yr										MT/yr					
Fugitive Dust					0.1933	0.0000	0.1933	0.0887	0.0000	0.0887	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.5378	0.6629	1.0900e-003		0.0253	0.0253		0.0253	0.0253	0.0000	96.0283	96.0283	0.0311	0.0000	96.8048
Total	**0.0268**	**0.5378**	**0.6629**	**1.0900e-003**	**0.1933**	**0.0253**	**0.2186**	**0.0887**	**0.0253**	**0.1140**	**0.0000**	**96.0283**	**96.0283**	**0.0311**	**0.0000**	**96.8048**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5100e-003	0.0908	0.1182	1.9000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**4.5100e-003**	**0.0908**	**0.1182**	**1.9000e-004**	**0.0000**	**4.4400e-003**	**4.4400e-003**	**0.0000**	**4.4400e-003**	**4.4400e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2124
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2124**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

3.5 Phase 1A-Foundations/Concrete Pour - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.2301	0.2258	4.5000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2123
Total	**0.0293**	**0.2301**	**0.2258**	**4.5000e-004**	**0.0000**	**0.0110**	**0.0110**	**0.0000**	**0.0110**	**0.0110**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2123**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

3.6 Phase 1A-Building Construction - 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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4380	181.4380	0.0532	0.0000	182.7670
Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4380**	**181.4380**	**0.0532**	**0.0000**	**182.7670**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
Vendor	0.1398	5.5519	1.0041	0.0117	0.2057	0.0126	0.2184	0.0566	0.0121	0.0687	0.0000	1,134.7591	1,134.7591	0.0796	0.0000	1,136.7481
Worker	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.1784**	**5.8803**	**1.2868**	**0.0132**	**0.2946**	**0.0141**	**0.3087**	**0.0804**	**0.0135**	**0.0939**	**0.0000**	**1,277.5335**	**1,277.5335**	**0.0852**	**0.0000**	**1,279.6638**

3.6 Phase 1A-Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0586	0.9952	1.4538	2.0800e-003		0.0484	0.0484		0.0484	0.0484	0.0000	181.4378	181.4378	0.0532	0.0000	182.7668
Total	**0.0586**	**0.9952**	**1.4538**	**2.0800e-003**		**0.0484**	**0.0484**		**0.0484**	**0.0484**	**0.0000**	**181.4378**	**181.4378**	**0.0532**	**0.0000**	**182.7668**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
Vendor	0.1398	5.5519	1.0041	0.0117	0.2057	0.0126	0.2184	0.0566	0.0121	0.0687	0.0000	1,134.7591	1,134.7591	0.0796	0.0000	1,136.7481
Worker	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.1784**	**5.8803**	**1.2868**	**0.0132**	**0.2946**	**0.0141**	**0.3087**	**0.0804**	**0.0135**	**0.0939**	**0.0000**	**1,277.5335**	**1,277.5335**	**0.0852**	**0.0000**	**1,279.6638**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	0.7421					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5109	8.5109	6.6000e-004	0.0000	8.5273
Total	**0.7502**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5109**	**8.5109**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

3.7 Phase 1A-Architectural Coatings - 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	tons/yr										MT/yr					
Archit. Coating	0.7421					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9800e-003	0.0452	0.0611	1.0000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003	0.0000	8.5108	8.5108	6.6000e-004	0.0000	8.5273
Total	**0.7441**	**0.0452**	**0.0611**	**1.0000e-004**		**3.1700e-003**	**3.1700e-003**		**3.1700e-003**	**3.1700e-003**	**0.0000**	**8.5108**	**8.5108**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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	tons/yr										MT/yr					
Fugitive Dust					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1200e-003	0.1049	0.1263	2.1000e-004		5.2000e-003	5.2000e-003		5.2000e-003	5.2000e-003	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**5.1200e-003**	**0.1049**	**0.1263**	**2.1000e-004**	**0.0994**	**5.2000e-003**	**0.1046**	**0.0546**	**5.2000e-003**	**0.0598**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

3.9 Phase 1B-Foundation/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6183
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6183**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

3.9 Phase 1B-Foundation/Concrete Pour - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2000e-003	0.1819	0.2387	3.6000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6182
Total	**8.2000e-003**	**0.1819**	**0.2387**	**3.6000e-004**	**0.0000**	**0.0118**	**0.0118**	**0.0000**	**0.0118**	**0.0118**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6182**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

3.10 Phase 1A-Paving - 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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0753	22.0753	7.1400e-003	0.0000	22.2538
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0753**	**22.0753**	**7.1400e-003**	**0.0000**	**22.2538**

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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**3.5000e-004**	**2.5000e-004**	**2.5800e-003**	**1.0000e-005**	**8.3000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.7269**	**0.7269**	**2.0000e-005**	**0.0000**	**0.7273**

3.10 Phase 1A-Paving - 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	tons/yr										MT/yr					
Off-Road	6.1600e-003	0.1222	0.1590	2.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	22.0752	22.0752	7.1400e-003	0.0000	22.2537
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0376**	**0.1222**	**0.1590**	**2.5000e-004**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**22.0752**	**22.0752**	**7.1400e-003**	**0.0000**	**22.2537**

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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**3.5000e-004**	**2.5000e-004**	**2.5800e-003**	**1.0000e-005**	**8.3000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.7269**	**0.7269**	**2.0000e-005**	**0.0000**	**0.7273**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2363	154.2363	0.0379	0.0000	155.1849
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2363**	**154.2363**	**0.0379**	**0.0000**	**155.1849**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
Vendor	0.2562	10.1786	1.8408	0.0215	0.3772	0.0232	0.4003	0.1038	0.0222	0.1260	0.0000	2,080.3916	2,080.3916	0.1459	0.0000	2,084.0382
Worker	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.2874**	**10.4078**	**2.0696**	**0.0226**	**0.4525**	**0.0242**	**0.4768**	**0.1239**	**0.0232**	**0.1471**	**0.0000**	**2,188.3010**	**2,188.3010**	**0.1500**	**0.0000**	**2,192.0507**

3.11 Phase 1B-Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0735	0.9642	1.2284	1.8100e-003		0.0602	0.0602		0.0602	0.0602	0.0000	154.2362	154.2362	0.0379	0.0000	155.1848
Total	**0.0735**	**0.9642**	**1.2284**	**1.8100e-003**		**0.0602**	**0.0602**		**0.0602**	**0.0602**	**0.0000**	**154.2362**	**154.2362**	**0.0379**	**0.0000**	**155.1848**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
Vendor	0.2562	10.1786	1.8408	0.0215	0.3772	0.0232	0.4003	0.1038	0.0222	0.1260	0.0000	2,080.3916	2,080.3916	0.1459	0.0000	2,084.0382
Worker	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.2874**	**10.4078**	**2.0696**	**0.0226**	**0.4525**	**0.0242**	**0.4768**	**0.1239**	**0.0232**	**0.1471**	**0.0000**	**2,188.3010**	**2,188.3010**	**0.1500**	**0.0000**	**2,192.0507**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2876	53.2876	0.0129	0.0000	53.6108
Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2876**	**53.2876**	**0.0129**	**0.0000**	**53.6108**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
Vendor	0.0833	3.3031	0.6171	7.3100e-003	0.1303	7.0800e-003	0.1374	0.0359	6.7800e-003	0.0426	0.0000	709.7942	709.7942	0.0486	0.0000	711.0102
Worker	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0934**	**3.3760**	**0.6902**	**7.6900e-003**	**0.1644**	**7.4300e-003**	**0.1718**	**0.0448**	**7.1000e-003**	**0.0519**	**0.0000**	**746.1897**	**746.1897**	**0.0500**	**0.0000**	**747.4397**

3.11 Phase 1B-Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0239	0.3307	0.4225	6.2000e-004		0.0203	0.0203		0.0203	0.0203	0.0000	53.2875	53.2875	0.0129	0.0000	53.6107
Total	**0.0239**	**0.3307**	**0.4225**	**6.2000e-004**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**53.2875**	**53.2875**	**0.0129**	**0.0000**	**53.6107**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
Vendor	0.0833	3.3031	0.6171	7.3100e-003	0.1303	7.0800e-003	0.1374	0.0359	6.7800e-003	0.0426	0.0000	709.7942	709.7942	0.0486	0.0000	711.0102
Worker	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0934**	**3.3760**	**0.6902**	**7.6900e-003**	**0.1644**	**7.4300e-003**	**0.1718**	**0.0448**	**7.1000e-003**	**0.0519**	**0.0000**	**746.1897**	**746.1897**	**0.0500**	**0.0000**	**747.4397**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	0.8769					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.8795**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

3.12 Phase 1B-Architectural Coatings - 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	tons/yr										MT/yr					
Archit. Coating	0.8769					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	0.0163	0.0220	4.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.8776**	**0.0163**	**0.0220**	**4.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.1400e-003**	**1.1400e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

3.13 Phase 1B-Paving - 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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

3.13 Phase 1B-Paving - 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	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0621	0.0951	1.3000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0345**	**0.0621**	**0.0951**	**1.3000e-004**		**3.3500e-003**	**3.3500e-003**		**3.3500e-003**	**3.3500e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.0127	0.0604	0.1305	2.9000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	25.2789	25.2789	1.0200e-003	0.0000	25.3043
Total	**0.0127**	**0.0604**	**0.1305**	**2.9000e-004**		**2.0600e-003**	**2.0600e-003**		**2.0600e-003**	**2.0600e-003**	**0.0000**	**25.2789**	**25.2789**	**1.0200e-003**	**0.0000**	**25.3043**

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	1.8000e-004	9.0000e-005	1.1800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.4870	0.4870	1.0000e-005	0.0000	0.4872
Total	**1.8000e-004**	**9.0000e-005**	**1.1800e-003**	**1.0000e-005**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**0.0000**	**0.4872**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	6.9400e-003	0.1070	0.1600	2.9000e-004		4.2800e-003	4.2800e-003		4.2800e-003	4.2800e-003	0.0000	25.2788	25.2788	1.0200e-003	0.0000	25.3043
Total	**6.9400e-003**	**0.1070**	**0.1600**	**2.9000e-004**		**4.2800e-003**	**4.2800e-003**		**4.2800e-003**	**4.2800e-003**	**0.0000**	**25.2788**	**25.2788**	**1.0200e-003**	**0.0000**	**25.3043**

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	1.8000e-004	9.0000e-005	1.1800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.4870	0.4870	1.0000e-005	0.0000	0.4872
Total	**1.8000e-004**	**9.0000e-005**	**1.1800e-003**	**1.0000e-005**	**7.9000e-004**	**0.0000**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.4870**	**0.4870**	**1.0000e-005**	**0.0000**	**0.4872**

3.15 Phase 2-Grading/Excavation - 2030

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					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0773	0.2982	0.4168	1.6100e-003		0.0109	0.0109		0.0109	0.0109	0.0000	158.8000	158.8000	6.2200e-003	0.0000	158.9554
Total	**0.0773**	**0.2982**	**0.4168**	**1.6100e-003**	**0.0867**	**0.0109**	**0.0976**	**0.0360**	**0.0109**	**0.0468**	**0.0000**	**158.8000**	**158.8000**	**6.2200e-003**	**0.0000**	**158.9554**

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	2.9300e-003	0.0892	0.0323	4.4000e-004	0.0105	1.6000e-004	0.0106	2.8800e-003	1.5000e-004	3.0400e-003	0.0000	42.5886	42.5886	2.0500e-003	0.0000	42.6398
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.5700e-003**	**0.0895**	**0.0366**	**4.6000e-004**	**0.0133**	**1.7000e-004**	**0.0135**	**3.6400e-003**	**1.6000e-004**	**3.8100e-003**	**0.0000**	**44.3419**	**44.3419**	**2.0700e-003**	**0.0000**	**44.3936**

3.15 Phase 2-Grading/Excavation - 2030

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					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.7199	0.8264	1.6100e-003		0.0287	0.0287		0.0287	0.0287	0.0000	158.7998	158.7998	6.2200e-003	0.0000	158.9553
Total	**0.0370**	**0.7199**	**0.8264**	**1.6100e-003**	**0.0867**	**0.0287**	**0.1154**	**0.0360**	**0.0287**	**0.0647**	**0.0000**	**158.7998**	**158.7998**	**6.2200e-003**	**0.0000**	**158.9553**

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	2.9300e-003	0.0892	0.0323	4.4000e-004	0.0105	1.6000e-004	0.0106	2.8800e-003	1.5000e-004	3.0400e-003	0.0000	42.5886	42.5886	2.0500e-003	0.0000	42.6398
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.5700e-003**	**0.0895**	**0.0366**	**4.6000e-004**	**0.0133**	**1.7000e-004**	**0.0135**	**3.6400e-003**	**1.6000e-004**	**3.8100e-003**	**0.0000**	**44.3419**	**44.3419**	**2.0700e-003**	**0.0000**	**44.3936**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0058	50.0058	2.4700e-003	0.0000	50.0675
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0058**	**50.0058**	**2.4700e-003**	**0.0000**	**50.0675**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.2383	0.2870	5.8000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	50.0057	50.0057	2.4700e-003	0.0000	50.0674
Total	**0.0116**	**0.2383**	**0.2870**	**5.8000e-004**	**0.2258**	**0.0118**	**0.2377**	**0.1241**	**0.0118**	**0.1360**	**0.0000**	**50.0057**	**50.0057**	**2.4700e-003**	**0.0000**	**50.0674**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0309	24.0309	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0309**	**24.0309**	**8.8000e-004**	**0.0000**	**24.0528**

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	4.3900e-003	0.1337	0.0485	6.5000e-004	0.0157	2.4000e-004	0.0160	4.3200e-003	2.3000e-004	4.5600e-003	0.0000	63.8829	63.8829	3.0700e-003	0.0000	63.9596
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	1.7000e-004	2.1300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	0.8766	0.8766	1.0000e-005	0.0000	0.8769
Total	**4.7100e-003**	**0.1339**	**0.0506**	**6.6000e-004**	**0.0171**	**2.5000e-004**	**0.0174**	**4.7000e-003**	**2.4000e-004**	**4.9400e-003**	**0.0000**	**64.7595**	**64.7595**	**3.0800e-003**	**0.0000**	**64.8366**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5900e-003	0.1240	0.1627	2.8000e-004		8.0300e-003	8.0300e-003		8.0300e-003	8.0300e-003	0.0000	24.0308	24.0308	8.8000e-004	0.0000	24.0528
Total	**5.5900e-003**	**0.1240**	**0.1627**	**2.8000e-004**	**0.0000**	**8.0300e-003**	**8.0300e-003**	**0.0000**	**8.0300e-003**	**8.0300e-003**	**0.0000**	**24.0308**	**24.0308**	**8.8000e-004**	**0.0000**	**24.0528**

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	4.3900e-003	0.1337	0.0485	6.5000e-004	0.0157	2.4000e-004	0.0160	4.3200e-003	2.3000e-004	4.5600e-003	0.0000	63.8829	63.8829	3.0700e-003	0.0000	63.9596
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	1.7000e-004	2.1300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	0.8766	0.8766	1.0000e-005	0.0000	0.8769
Total	**4.7100e-003**	**0.1339**	**0.0506**	**6.6000e-004**	**0.0171**	**2.5000e-004**	**0.0174**	**4.7000e-003**	**2.4000e-004**	**4.9400e-003**	**0.0000**	**64.7595**	**64.7595**	**3.0800e-003**	**0.0000**	**64.8366**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.0985	0.5901	1.2044	2.3300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	197.8990	197.8990	7.9300e-003	0.0000	198.0973
Total	**0.0985**	**0.5901**	**1.2044**	**2.3300e-003**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**197.8990**	**197.8990**	**7.9300e-003**	**0.0000**	**198.0973**

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	6.1600e-003	0.1878	0.0681	9.2000e-004	0.0221	3.4000e-004	0.0224	6.0700e-003	3.3000e-004	6.4000e-003	0.0000	89.7108	89.7108	4.3100e-003	0.0000	89.8186
Vendor	0.1820	7.5555	2.0082	0.0242	0.4804	7.9200e-003	0.4883	0.1322	7.5800e-003	0.1398	0.0000	2,359.9740	2,359.9740	0.1333	0.0000	2,363.3071
Worker	0.0379	0.0197	0.2515	1.1400e-003	0.1682	7.5000e-004	0.1689	0.0447	6.9000e-004	0.0454	0.0000	103.6388	103.6388	1.3500e-003	0.0000	103.6725
Total	**0.2261**	**7.7630**	**2.3278**	**0.0262**	**0.6706**	**9.0100e-003**	**0.6796**	**0.1830**	**8.6000e-003**	**0.1916**	**0.0000**	**2,553.3235**	**2,553.3235**	**0.1390**	**0.0000**	**2,556.7982**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.0545	1.0307	1.3469	2.3300e-003		0.0613	0.0613		0.0613	0.0613	0.0000	197.8988	197.8988	7.9300e-003	0.0000	198.0970
Total	**0.0545**	**1.0307**	**1.3469**	**2.3300e-003**		**0.0613**	**0.0613**		**0.0613**	**0.0613**	**0.0000**	**197.8988**	**197.8988**	**7.9300e-003**	**0.0000**	**198.0970**

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	6.1600e-003	0.1878	0.0681	9.2000e-004	0.0221	3.4000e-004	0.0224	6.0700e-003	3.3000e-004	6.4000e-003	0.0000	89.7108	89.7108	4.3100e-003	0.0000	89.8186
Vendor	0.1820	7.5555	2.0082	0.0242	0.4804	7.9200e-003	0.4883	0.1322	7.5800e-003	0.1398	0.0000	2,359.9740	2,359.9740	0.1333	0.0000	2,363.3071
Worker	0.0379	0.0197	0.2515	1.1400e-003	0.1682	7.5000e-004	0.1689	0.0447	6.9000e-004	0.0454	0.0000	103.6388	103.6388	1.3500e-003	0.0000	103.6725
Total	**0.2261**	**7.7630**	**2.3278**	**0.0262**	**0.6706**	**9.0100e-003**	**0.6796**	**0.1830**	**8.6000e-003**	**0.1916**	**0.0000**	**2,553.3235**	**2,553.3235**	**0.1390**	**0.0000**	**2,556.7982**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	1.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.0536**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1000e-003	5.7000e-004	7.3300e-003	3.0000e-005	4.9000e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.0196	3.0196	4.0000e-005	0.0000	3.0205
Total	**1.1000e-003**	**5.7000e-004**	**7.3300e-003**	**3.0000e-005**	**4.9000e-003**	**2.0000e-005**	**4.9200e-003**	**1.3000e-003**	**2.0000e-005**	**1.3200e-003**	**0.0000**	**3.0196**	**3.0196**	**4.0000e-005**	**0.0000**	**3.0205**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	1.0519					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9000e-004	0.0181	0.0244	4.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.0527**	**0.0181**	**0.0244**	**4.0000e-005**		**1.2700e-003**	**1.2700e-003**		**1.2700e-003**	**1.2700e-003**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1000e-003	5.7000e-004	7.3300e-003	3.0000e-005	4.9000e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.0196	3.0196	4.0000e-005	0.0000	3.0205
Total	**1.1000e-003**	**5.7000e-004**	**7.3300e-003**	**3.0000e-005**	**4.9000e-003**	**2.0000e-005**	**4.9200e-003**	**1.3000e-003**	**2.0000e-005**	**1.3200e-003**	**0.0000**	**3.0196**	**3.0196**	**4.0000e-005**	**0.0000**	**3.0205**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022
Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	9.0000e-005	4.0000e-005	5.7000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2338	0.2338	0.0000	0.0000	0.2339
Total	**1.7000e-004**	**2.3400e-003**	**1.4000e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.3328**	**1.3328**	**5.0000e-005**	**0.0000**	**1.3342**

3.20 Phase 2-Paving - 2030

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					
Off-Road	4.4900e-003	0.0904	0.1384	2.2000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022
Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0284**	**0.0904**	**0.1384**	**2.2000e-004**		**4.8700e-003**	**4.8700e-003**		**4.8700e-003**	**4.8700e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	9.0000e-005	4.0000e-005	5.7000e-004	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2338	0.2338	0.0000	0.0000	0.2339
Total	**1.7000e-004**	**2.3400e-003**	**1.4000e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.3328**	**1.3328**	**5.0000e-005**	**0.0000**	**1.3342**

3.20 Phase 2-Paving - 2031

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0714	0.0714	0.0000	0.0000	0.0714
Total	**4.0000e-005**	**7.2000e-004**	**4.3000e-004**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.4136**	**0.4136**	**2.0000e-005**	**0.0000**	**0.4141**

3.20 Phase 2-Paving - 2031

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					
Off-Road	1.4000e-003	0.0282	0.0432	7.0000e-005		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.8700e-003**	**0.0282**	**0.0432**	**7.0000e-005**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0714	0.0714	0.0000	0.0000	0.0714
Total	**4.0000e-005**	**7.2000e-004**	**4.3000e-004**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.4136**	**0.4136**	**2.0000e-005**	**0.0000**	**0.4141**

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	tons/yr										MT/yr					
Mitigated	4.7853	20.6799	45.0663	0.1278	9.9978	0.1455	10.1433	2.6839	0.1367	2.8207	0.0000	11,721.1523	11,721.1523	0.5290	0.0000	11,734.3768
Unmitigated	4.7853	20.6799	45.0663	0.1278	9.9978	0.1455	10.1433	2.6839	0.1367	2.8207	0.0000	11,721.1523	11,721.1523	0.5290	0.0000	11,734.3768

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	8,378.25	7,947.24	3862.09	11,814,384	11,814,384
Total	19,823.12	21,165.33	13,590.90	26,858,912	26,858,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Gasoline/Service Station	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Hotel	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Other Non-Asphalt Surfaces	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Parking Lot	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Strip Mall	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,453.7957	1,453.7957	0.0657	0.0136	1,459.4921
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,453.7957	1,453.7957	0.0657	0.0136	1,459.4921
NaturalGas Mitigated	0.0363	0.3295	0.2768	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.7212	358.7212	6.8800e-003	6.5800e-003	360.8529
NaturalGas Unmitigated	0.0363	0.3295	0.2768	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.7212	358.7212	6.8800e-003	6.5800e-003	360.8529

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					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	448018	2.4200e-003	0.0220	0.0185	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	23.9079	23.9079	4.6000e-004	4.4000e-004	24.0500
Total		**0.0363**	**0.3295**	**0.2768**	**1.9700e-003**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**358.7212**	**358.7212**	**6.8800e-003**	**6.5700e-003**	**360.8529**

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	448018	2.4200e-003	0.0220	0.0185	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	23.9079	23.9079	4.6000e-004	4.4000e-004	24.0500
Total		**0.0363**	**0.3295**	**0.2768**	**1.9700e-003**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**358.7212**	**358.7212**	**6.8800e-003**	**6.5700e-003**	**360.8529**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.02081e+006	587.8755	0.0266	5.5000e-003	590.1790
Total		**1,453.7957**	**0.0657**	**0.0136**	**1,459.4921**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.02081e+006	587.8755	0.0266	5.5000e-003	590.1790
Total		**1,453.7957**	**0.0657**	**0.0136**	**1,459.4921**

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	2.2063	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118
Unmitigated	2.2063	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118

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	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9312					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118
Total	**2.2063**	**5.0000e-005**	**5.7300e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0111**	**0.0111**	**3.0000e-005**	**0.0000**	**0.0118**

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	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9312					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0111	0.0111	3.0000e-005	0.0000	0.0118
Total	**2.2063**	**5.0000e-005**	**5.7300e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0111**	**0.0111**	**3.0000e-005**	**0.0000**	**0.0118**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.2127	1.0161	0.0245	107.9247
Unmitigated	75.2127	1.0161	0.0245	107.9247

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	14.0027 / 8.58228	35.2227	0.4577	0.0111	49.9608
Total		**75.2127**	**1.0161**	**0.0245**	**107.9247**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	14.0027 / 8.58228	35.2227	0.4577	0.0111	49.9608
Total		**75.2127**	**1.0161**	**0.0245**	**107.9247**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	197.3559	11.6634	0.0000	488.9410
Unmitigated	197.3559	11.6634	0.0000	488.9410

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	198.49	40.2917	2.3812	0.0000	99.8209
Total		**197.3559**	**11.6634**	**0.0000**	**488.9410**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	198.49	40.2917	2.3812	0.0000	99.8209
Total		**197.3559**	**11.6634**	**0.0000**	**488.9410**

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

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	189.04	1000sqft	4.34	189,037.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
Land Use - Matches Project Applicant's model.
Construction Phase - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
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Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Trips and VMT - Matches Project Applicant's model.
Grading - Matches Project Applicant's model.
Architectural Coating - Matches Project Applicant's model.
Construction Off-road Equipment Mitigation - Matches Project Applicant's model.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	235,930.00	75,412.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	235,930.00	68,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	235,930.00	92,019.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	226,235.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	205,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	276,056.00
tblArchitecturalCoating	ConstArea_Parking	82,015.00	26,022.74
tblArchitecturalCoating	ConstArea_Parking	82,015.00	7,983.68
tblArchitecturalCoating	ConstArea_Parking	82,015.00	26,528.04
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	26.00

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tblConstructionPhase	NumDays	55.00	18.00
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tblConstructionPhase	NumDays	740.00	60.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	75.00	51.00

tblConstructionPhase	NumDays	55.00	11.00
tblConstructionPhase	NumDays	55.00	21.00
tblConstructionPhase	NumDays	55.00	7.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	30.00	7.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	195.00	0.00
tblGrading	AcresOfGrading	140.00	50.00
tblGrading	AcresOfGrading	25.50	75.00
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LandUseSquareFeet	189,040.00	189,037.00
tblLandUse	LotAcreage	7.70	0.77
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Phase 1A-Grading/Excavation
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	800.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,944.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,240.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,860.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,612.00
tblTripsAndVMT	HaulingTripNumber	0.00	42.00
tblTripsAndVMT	HaulingTripNumber	0.00	680.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,100.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,020.00
tblTripsAndVMT	VendorTripNumber	301.00	1,110.00
tblTripsAndVMT	VendorTripNumber	301.00	1,110.00
tblTripsAndVMT	VendorTripNumber	301.00	1,110.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	738.00	138.00
tblTripsAndVMT	WorkerTripNumber	148.00	28.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	738.00	304.00
tblTripsAndVMT	WorkerTripNumber	148.00	62.00
tblTripsAndVMT	WorkerTripNumber	15.00	6.00
tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	738.00	300.00
tblTripsAndVMT	WorkerTripNumber	148.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2020	56.1627	317.1723	144.9426	0.6731	28.8756	8.4249	33.7242	12.8669	7.8575	17.3784	0.0000	69,827.4993	69,827.4993	8.1658	0.0000	70,031.6436
2021	97.8166	197.8899	54.9380	0.4452	8.9591	1.5668	10.5259	2.4321	1.4806	3.9127	0.0000	47,129.3445	47,129.3445	3.5519	0.0000	47,218.1423
2030	105.4743	119.0218	49.3596	0.4145	20.5788	1.1021	21.2310	10.6163	1.1013	11.2670	0.0000	44,040.8868	44,040.8868	2.2582	0.0000	44,097.3418
2031	4.3933	7.4050	16.0264	0.0298	0.1689	0.3313	0.5002	0.0434	0.3313	0.3747	0.0000	2,842.3249	2,842.3249	0.1321	0.0000	2,845.6279
Maximum	**105.4743**	**317.1723**	**144.9426**	**0.6731**	**28.8756**	**8.4249**	**33.7242**	**12.8669**	**7.8575**	**17.3784**	**0.0000**	**69,827.4993**	**69,827.4993**	**8.1658**	**0.0000**	**70,031.6436**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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
Year	lb/day										lb/day					
2020	49.8516	294.3295	168.9065	0.6731	28.8756	6.1187	32.0280	12.8669	6.1128	15.9984	0.0000	69,827.4993	69,827.4993	8.1658	0.0000	70,031.6436
2021	97.6040	193.8594	56.6191	0.4452	8.9591	1.4522	10.4113	2.4321	1.4354	3.8675	0.0000	47,129.3445	47,129.3445	3.5519	0.0000	47,218.1423
2030	105.3792	125.3149	86.2804	0.4145	20.5788	2.8850	22.6290	10.6163	2.8842	12.6650	0.0000	44,040.8868	44,040.8868	2.2582	0.0000	44,097.3418
2031	3.5698	11.5800	17.4726	0.0298	0.1689	0.6100	0.7789	0.0434	0.6100	0.6534	0.0000	2,842.3249	2,842.3249	0.1321	0.0000	2,845.6279
Maximum	**105.3792**	**294.3295**	**168.9065**	**0.6731**	**28.8756**	**6.1187**	**32.0280**	**12.8669**	**6.1128**	**15.9984**	**0.0000**	**69,827.4993**	**69,827.4993**	**8.1658**	**0.0000**	**70,031.6436**

	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	N20	CO2e
Percent Reduction	**2.82**	**2.56**	**-24.13**	**0.00**	**0.00**	**3.14**	**0.20**	**0.00**	**-2.52**	**-0.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Energy	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
Mobile	34.5315	125.6303	281.6729	0.8485	65.2203	0.9087	66.1290	17.4523	0.8540	18.3063		85,736.0436	85,736.0436	3.6076		85,826.2326
Total	**46.8225**	**127.4365**	**283.2532**	**0.8594**	**65.2203**	**1.0462**	**66.2665**	**17.4523**	**0.9915**	**18.4438**		**87,902.8775**	**87,902.8775**	**3.6495**	**0.0397**	**88,005.9512**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Energy	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
Mobile	34.5315	125.6303	281.6729	0.8485	65.2203	0.9087	66.1290	17.4523	0.8540	18.3063		85,736.0436	85,736.0436	3.6076		85,826.2326
Total	**46.8225**	**127.4365**	**283.2532**	**0.8594**	**65.2203**	**1.0462**	**66.2665**	**17.4523**	**0.9915**	**18.4438**		**87,902.8775**	**87,902.8775**	**3.6495**	**0.0397**	**88,005.9512**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/9/2020	6	30	
2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	
8	Phase 1B-Foundation/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/1/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/26/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 7,984 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37
Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Welders	1	8.00	46	0.45

Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundation/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundation/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Excavators	2	8.00	158	0.38
Phase 2-Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41

Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Cranes	1	8.00	231	0.29
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Drainage/Utilities/Sub	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Building Construction	14	300.00	1,110.00	2,100.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Paving	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Building Construction	11	138.00	1,110.00	1,944.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Grading/Excavation	14	36.00	0.00	1,240.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Foundations/Concrete	9	24.00	0.00	1,860.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Building Construction	9	304.00	1,110.00	2,612.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Architectural Coatings	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Paving	6	6.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Phase 1A-Grading/Excavation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	8.3854	96.5982	56.7875	0.1224		3.8709	3.8709		3.5612	3.5612		11,851.5424	11,851.5424	3.8330		11,947.3681
Total	**8.3854**	**96.5982**	**56.7875**	**0.1224**	**6.0221**	**3.8709**	**9.8930**	**3.3102**	**3.5612**	**6.8714**		**11,851.5424**	**11,851.5424**	**3.8330**		**11,947.3681**

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	0.2200	7.6385	1.5181	0.0212	0.4659	0.0250	0.4908	0.1277	0.0239	0.1516		2,268.7561	2,268.7561	0.1135		2,271.5935
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	0.0904	0.0547	0.6976	2.1400e-003	0.2136	1.3800e-003	0.2150	0.0567	1.2700e-003	0.0579		213.4019	213.4019	5.1400e-003		213.5305
Total	**0.3104**	**7.6932**	**2.2157**	**0.0234**	**0.6794**	**0.0264**	**0.7058**	**0.1843**	**0.0252**	**0.2095**		**2,482.1580**	**2,482.1580**	**0.1186**		**2,485.1240**

3.2 Phase 1A-Grading/Excavation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	3.0076	58.4133	65.8616	0.1224		2.2714	2.2714		2.2714	2.2714	0.0000	11,851.5424	11,851.5424	3.8330		11,947.3681
Total	**3.0076**	**58.4133**	**65.8616**	**0.1224**	**6.0221**	**2.2714**	**8.2935**	**3.3102**	**2.2714**	**5.5817**	**0.0000**	**11,851.5424**	**11,851.5424**	**3.8330**		**11,947.3681**

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	0.2200	7.6385	1.5181	0.0212	0.4659	0.0250	0.4908	0.1277	0.0239	0.1516		2,268.7561	2,268.7561	0.1135		2,271.5935
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	0.0904	0.0547	0.6976	2.1400e-003	0.2136	1.3800e-003	0.2150	0.0567	1.2700e-003	0.0579		213.4019	213.4019	5.1400e-003		213.5305
Total	**0.3104**	**7.6932**	**2.2157**	**0.0234**	**0.6794**	**0.0264**	**0.7058**	**0.1843**	**0.0252**	**0.2095**		**2,482.1580**	**2,482.1580**	**0.1186**		**2,485.1240**

3.3 Phase 1B-Grading/Excavation - 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					7.5817	0.0000	7.5817	3.4786	0.0000	3.4786			0.0000			0.0000
Off-Road	3.0919	32.7086	19.8631	0.0429		1.5038	1.5038		1.3835	1.3835		4,151.1071	4,151.1071	1.3426		4,184.6709
Total	**3.0919**	**32.7086**	**19.8631**	**0.0429**	**7.5817**	**1.5038**	**9.0854**	**3.4786**	**1.3835**	**4.8621**		**4,151.1071**	**4,151.1071**	**1.3426**		**4,184.6709**

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	0.1100	3.8193	0.7591	0.0106	0.2329	0.0125	0.2454	0.0638	0.0119	0.0758		1,134.3781	1,134.3781	0.0568		1,135.7968
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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.1726**	**3.8571**	**1.2420**	**0.0121**	**0.3808**	**0.0134**	**0.3942**	**0.1031**	**0.0128**	**0.1159**		**1,282.1178**	**1,282.1178**	**0.0603**		**1,283.6255**

3.3 Phase 1B-Grading/Excavation - 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					7.5817	0.0000	7.5817	3.4786	0.0000	3.4786			0.0000			0.0000
Off-Road	1.0496	21.0903	25.9956	0.0429		0.9926	0.9926		0.9926	0.9926	0.0000	4,151.1071	4,151.1071	1.3426		4,184.6709
Total	**1.0496**	**21.0903**	**25.9956**	**0.0429**	**7.5817**	**0.9926**	**8.5743**	**3.4786**	**0.9926**	**4.4713**	**0.0000**	**4,151.1071**	**4,151.1071**	**1.3426**		**4,184.6709**

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	0.1100	3.8193	0.7591	0.0106	0.2329	0.0125	0.2454	0.0638	0.0119	0.0758		1,134.3781	1,134.3781	0.0568		1,135.7968
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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.1726**	**3.8571**	**1.2420**	**0.0121**	**0.3808**	**0.0134**	**0.3942**	**0.1031**	**0.0128**	**0.1159**		**1,282.1178**	**1,282.1178**	**0.0603**		**1,283.6255**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9662	29.8224	25.6127	0.0533		1.3732	1.3732		1.2648	1.2648		5,145.9477	5,145.9477	1.6511		5,187.2261
Total	**2.9662**	**29.8224**	**25.6127**	**0.0533**	**0.0000**	**1.3732**	**1.3732**	**0.0000**	**1.2648**	**1.2648**		**5,145.9477**	**5,145.9477**	**1.6511**		**5,187.2261**

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	0.0973	0.0589	0.7513	2.3100e-003	0.2300	1.4900e-003	0.2315	0.0610	1.3700e-003	0.0624		229.8174	229.8174	5.5400e-003		229.9559
Total	**0.0973**	**0.0589**	**0.7513**	**2.3100e-003**	**0.2300**	**1.4900e-003**	**0.2315**	**0.0610**	**1.3700e-003**	**0.0624**		**229.8174**	**229.8174**	**5.5400e-003**		**229.9559**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2879	25.9304	33.7815	0.0533		1.2692	1.2692		1.2692	1.2692	0.0000	5,145.9477	5,145.9477	1.6511		5,187.2261
Total	**1.2879**	**25.9304**	**33.7815**	**0.0533**	**0.0000**	**1.2692**	**1.2692**	**0.0000**	**1.2692**	**1.2692**	**0.0000**	**5,145.9477**	**5,145.9477**	**1.6511**		**5,187.2261**

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	0.0973	0.0589	0.7513	2.3100e-003	0.2300	1.4900e-003	0.2315	0.0610	1.3700e-003	0.0624		229.8174	229.8174	5.5400e-003		229.9559
Total	**0.0973**	**0.0589**	**0.7513**	**2.3100e-003**	**0.2300**	**1.4900e-003**	**0.2315**	**0.0610**	**1.3700e-003**	**0.0624**		**229.8174**	**229.8174**	**5.5400e-003**		**229.9559**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.7797	32.9912	29.5159	0.0604		1.5521	1.5521		1.5289	1.5289		4,721.1406	4,721.1406	0.5307		4,734.4070
Total	**4.7797**	**32.9912**	**29.5159**	**0.0604**	**0.0000**	**1.5521**	**1.5521**	**0.0000**	**1.5289**	**1.5289**		**4,721.1406**	**4,721.1406**	**0.5307**		**4,734.4070**

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	0.6601	22.9156	4.5543	0.0637	1.3976	0.0749	1.4725	0.3830	0.0717	0.4547		6,806.2684	6,806.2684	0.3405		6,814.7805
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	0.5700	0.3451	4.4002	0.0135	1.3472	8.7200e-003	1.3559	0.3574	8.0400e-003	0.3654		1,346.0736	1,346.0736	0.0324		1,346.8845
Total	**1.2302**	**23.2607**	**8.9545**	**0.0772**	**2.7448**	**0.0836**	**2.8284**	**0.7403**	**0.0797**	**0.8200**		**8,152.3419**	**8,152.3419**	**0.3729**		**8,161.6650**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.9015	30.6794	30.1044	0.0604		1.4605	1.4605		1.4605	1.4605	0.0000	4,721.1406	4,721.1406	0.5307		4,734.4070
Total	**3.9015**	**30.6794**	**30.1044**	**0.0604**	**0.0000**	**1.4605**	**1.4605**	**0.0000**	**1.4605**	**1.4605**	**0.0000**	**4,721.1406**	**4,721.1406**	**0.5307**		**4,734.4070**

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	0.6601	22.9156	4.5543	0.0637	1.3976	0.0749	1.4725	0.3830	0.0717	0.4547		6,806.2684	6,806.2684	0.3405		6,814.7805
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	0.5700	0.3451	4.4002	0.0135	1.3472	8.7200e-003	1.3559	0.3574	8.0400e-003	0.3654		1,346.0736	1,346.0736	0.0324		1,346.8845
Total	**1.2302**	**23.2607**	**8.9545**	**0.0772**	**2.7448**	**0.0836**	**2.8284**	**0.7403**	**0.0797**	**0.8200**		**8,152.3419**	**8,152.3419**	**0.3729**		**8,161.6650**

3.6 Phase 1A-Building Construction - 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					
Off-Road	4.3005	45.5138	40.0396	0.0694		2.0369	2.0369		1.8966	1.8966		6,666.7050	6,666.7050	1.9533		6,715.5373
Total	**4.3005**	**45.5138**	**40.0396**	**0.0694**		**2.0369**	**2.0369**		**1.8966**	**1.8966**		**6,666.7050**	**6,666.7050**	**1.9533**		**6,715.5373**

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	0.2888	10.0256	1.9925	0.0279	0.6114	0.0328	0.6442	0.1676	0.0314	0.1989		2,977.7424	2,977.7424	0.1490		2,981.4665
Vendor	4.5491	183.7284	31.1383	0.3963	7.0928	0.4134	7.5062	1.9450	0.3955	2.3405		42,361.4573	42,361.4573	2.8181		42,431.9107
Worker	1.0427	0.6313	8.0491	0.0247	2.4644	0.0160	2.4804	0.6537	0.0147	0.6684		2,462.3297	2,462.3297	0.0593		2,463.8130
Total	**5.8806**	**194.3852**	**41.1800**	**0.4488**	**10.1686**	**0.4622**	**10.6308**	**2.7662**	**0.4416**	**3.2078**		**47,801.5294**	**47,801.5294**	**3.0264**		**47,877.1902**

3.6 Phase 1A-Building Construction - 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					
Off-Road	1.9529	33.1743	48.4591	0.0694		1.6131	1.6131		1.6131	1.6131	0.0000	6,666.7050	6,666.7050	1.9533		6,715.5373
Total	**1.9529**	**33.1743**	**48.4591**	**0.0694**		**1.6131**	**1.6131**		**1.6131**	**1.6131**	**0.0000**	**6,666.7050**	**6,666.7050**	**1.9533**		**6,715.5373**

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	0.2888	10.0256	1.9925	0.0279	0.6114	0.0328	0.6442	0.1676	0.0314	0.1989		2,977.7424	2,977.7424	0.1490		2,981.4665
Vendor	4.5491	183.7284	31.1383	0.3963	7.0928	0.4134	7.5062	1.9450	0.3955	2.3405		42,361.4573	42,361.4573	2.8181		42,431.9107
Worker	1.0427	0.6313	8.0491	0.0247	2.4644	0.0160	2.4804	0.6537	0.0147	0.6684		2,462.3297	2,462.3297	0.0593		2,463.8130
Total	**5.8806**	**194.3852**	**41.1800**	**0.4488**	**10.1686**	**0.4622**	**10.6308**	**2.7662**	**0.4416**	**3.2078**		**47,801.5294**	**47,801.5294**	**3.0264**		**47,877.1902**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	29.6849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479		375.2641	375.2641	0.0291		375.9904
Total	**30.0078**	**2.2451**	**2.4419**	**3.9600e-003**		**0.1479**	**0.1479**		**0.1479**	**0.1479**		**375.2641**	**375.2641**	**0.0291**		**375.9904**

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	0.2086	0.1263	1.6098	4.9400e-003	0.4929	3.1900e-003	0.4961	0.1307	2.9400e-003	0.1337		492.4659	492.4659	0.0119		492.7626
Total	**0.2086**	**0.1263**	**1.6098**	**4.9400e-003**	**0.4929**	**3.1900e-003**	**0.4961**	**0.1307**	**2.9400e-003**	**0.1337**		**492.4659**	**492.4659**	**0.0119**		**492.7626**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	29.6849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0291		375.9904
Total	**29.7642**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0291**		**375.9904**

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	0.2086	0.1263	1.6098	4.9400e-003	0.4929	3.1900e-003	0.4961	0.1307	2.9400e-003	0.1337		492.4659	492.4659	0.0119		492.7626
Total	**0.2086**	**0.1263**	**1.6098**	**4.9400e-003**	**0.4929**	**3.1900e-003**	**0.4961**	**0.1307**	**2.9400e-003**	**0.1337**		**492.4659**	**492.4659**	**0.0119**		**492.7626**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.0626**	**0.0379**	**0.4830**	**1.4800e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**147.7398**	**147.7398**	**3.5600e-003**		**147.8288**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.0626**	**0.0379**	**0.4830**	**1.4800e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**147.7398**	**147.7398**	**3.5600e-003**		**147.8288**

3.9 Phase 1B-Foundation/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.3362	22.6071	19.9633	0.0328		1.3151	1.3151		1.2421	1.2421		3,151.2568	3,151.2568	0.6885		3,168.4701
Total	**2.3362**	**22.6071**	**19.9633**	**0.0328**	**0.0000**	**1.3151**	**1.3151**	**0.0000**	**1.2421**	**1.2421**		**3,151.2568**	**3,151.2568**	**0.6885**		**3,168.4701**

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	0.3826	13.2806	2.6394	0.0369	0.8100	0.0434	0.8534	0.2220	0.0415	0.2635		3,944.5419	3,944.5419	0.1973		3,949.4751
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	0.0834	0.0505	0.6439	1.9800e-003	0.1972	1.2800e-003	0.1984	0.0523	1.1800e-003	0.0535		196.9864	196.9864	4.7500e-003		197.1050
Total	**0.4660**	**13.3311**	**3.2834**	**0.0389**	**1.0071**	**0.0447**	**1.0518**	**0.2743**	**0.0427**	**0.3170**		**4,141.5283**	**4,141.5283**	**0.2021**		**4,146.5801**

3.9 Phase 1B-Foundation/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7458	16.5327	21.6956	0.0328		1.0704	1.0704		1.0704	1.0704	0.0000	3,151.2568	3,151.2568	0.6885		3,168.4701
Total	**0.7458**	**16.5327**	**21.6956**	**0.0328**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**3,151.2568**	**3,151.2568**	**0.6885**		**3,168.4701**

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	0.3826	13.2806	2.6394	0.0369	0.8100	0.0434	0.8534	0.2220	0.0415	0.2635		3,944.5419	3,944.5419	0.1973		3,949.4751
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	0.0834	0.0505	0.6439	1.9800e-003	0.1972	1.2800e-003	0.1984	0.0523	1.1800e-003	0.0535		196.9864	196.9864	4.7500e-003		197.1050
Total	**0.4660**	**13.3311**	**3.2834**	**0.0389**	**1.0071**	**0.0447**	**1.0518**	**0.2743**	**0.0427**	**0.3170**		**4,141.5283**	**4,141.5283**	**0.2021**		**4,146.5801**

3.10 Phase 1A-Paving - 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					
Off-Road	3.8909	38.9005	32.8507	0.0718		1.7541	1.7541		1.6138	1.6138		6,952.5170	6,952.5170	2.2486		7,008.7316
Paving	8.9679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**12.8588**	**38.9005**	**32.8507**	**0.0718**		**1.7541**	**1.7541**		**1.6138**	**1.6138**		**6,952.5170**	**6,952.5170**	**2.2486**		**7,008.7316**

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	0.1043	0.0631	0.8049	2.4700e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668		246.2330	246.2330	5.9300e-003		246.3813
Total	**0.1043**	**0.0631**	**0.8049**	**2.4700e-003**	**0.2464**	**1.6000e-003**	**0.2480**	**0.0654**	**1.4700e-003**	**0.0668**		**246.2330**	**246.2330**	**5.9300e-003**		**246.3813**

3.10 Phase 1A-Paving - 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					
Off-Road	1.7614	34.9076	45.4191	0.0718		1.6126	1.6126		1.6126	1.6126	0.0000	6,952.5170	6,952.5170	2.2486		7,008.7316
Paving	8.9679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**10.7293**	**34.9076**	**45.4191**	**0.0718**		**1.6126**	**1.6126**		**1.6126**	**1.6126**	**0.0000**	**6,952.5170**	**6,952.5170**	**2.2486**		**7,008.7316**

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	0.1043	0.0631	0.8049	2.4700e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668		246.2330	246.2330	5.9300e-003		246.3813
Total	**0.1043**	**0.0631**	**0.8049**	**2.4700e-003**	**0.2464**	**1.6000e-003**	**0.2480**	**0.0654**	**1.4700e-003**	**0.0668**		**246.2330**	**246.2330**	**5.9300e-003**		**246.3813**

3.11 Phase 1B-Building Construction - 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					
Off-Road	2.7412	23.5182	20.9151	0.0329		1.3783	1.3783		1.2976	1.2976		3,091.2085	3,091.2085	0.7605		3,110.2202
Total	**2.7412**	**23.5182**	**20.9151**	**0.0329**		**1.3783**	**1.3783**		**1.2976**	**1.2976**		**3,091.2085**	**3,091.2085**	**0.7605**		**3,110.2202**

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	0.1084	3.7625	0.7478	0.0105	0.2895	0.0123	0.3018	0.0776	0.0118	0.0894		1,117.5157	1,117.5157	0.0559		1,118.9133
Vendor	4.5491	183.7284	31.1383	0.3963	7.0928	0.4134	7.5062	1.9450	0.3955	2.3405		42,361.4573	42,361.4573	2.8181		42,431.9107
Worker	0.4797	0.2904	3.7026	0.0114	1.1336	7.3400e-003	1.1410	0.3007	6.7600e-003	0.3075		1,132.6717	1,132.6717	0.0273		1,133.3540
Total	**5.1372**	**187.7812**	**35.5887**	**0.4181**	**8.5159**	**0.4331**	**8.9489**	**2.3233**	**0.4141**	**2.7374**		**44,611.6447**	**44,611.6447**	**2.9013**		**44,684.1780**

3.11 Phase 1B-Building Construction - 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					
Off-Road	1.3361	17.5316	22.3348	0.0329		1.0940	1.0940		1.0940	1.0940	0.0000	3,091.2085	3,091.2085	0.7605		3,110.2202
Total	**1.3361**	**17.5316**	**22.3348**	**0.0329**		**1.0940**	**1.0940**		**1.0940**	**1.0940**	**0.0000**	**3,091.2085**	**3,091.2085**	**0.7605**		**3,110.2202**

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	0.1084	3.7625	0.7478	0.0105	0.2895	0.0123	0.3018	0.0776	0.0118	0.0894		1,117.5157	1,117.5157	0.0559		1,118.9133
Vendor	4.5491	183.7284	31.1383	0.3963	7.0928	0.4134	7.5062	1.9450	0.3955	2.3405		42,361.4573	42,361.4573	2.8181		42,431.9107
Worker	0.4797	0.2904	3.7026	0.0114	1.1336	7.3400e-003	1.1410	0.3007	6.7600e-003	0.3075		1,132.6717	1,132.6717	0.0273		1,133.3540
Total	**5.1372**	**187.7812**	**35.5887**	**0.4181**	**8.5159**	**0.4331**	**8.9489**	**2.3233**	**0.4141**	**2.7374**		**44,611.6447**	**44,611.6447**	**2.9013**		**44,684.1780**

3.11 Phase 1B-Building Construction - 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					
Off-Road	2.4548	21.4372	20.5573	0.0329		1.1830	1.1830		1.1136	1.1136		3,091.5523	3,091.5523	0.7500		3,110.3021
Total	**2.4548**	**21.4372**	**20.5573**	**0.0329**		**1.1830**	**1.1830**		**1.1136**	**1.1136**		**3,091.5523**	**3,091.5523**	**0.7500**		**3,110.3021**

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	0.1023	3.4756	0.7327	0.0103	0.7322	0.0109	0.7431	0.1863	0.0104	0.1967		1,103.2328	1,103.2328	0.0547		1,104.6014
Vendor	4.2829	172.7178	30.2584	0.3911	7.0933	0.3658	7.4591	1.9452	0.3500	2.2951		41,841.6553	41,841.6553	2.7228		41,909.7239
Worker	0.4437	0.2593	3.3897	0.0110	1.1336	7.1300e-003	1.1408	0.3007	6.5700e-003	0.3073		1,092.9041	1,092.9041	0.0244		1,093.5149
Total	**4.8289**	**176.4527**	**34.3807**	**0.4123**	**8.9591**	**0.3838**	**9.3429**	**2.4321**	**0.3670**	**2.7991**		**44,037.7922**	**44,037.7922**	**2.8019**		**44,107.8402**

3.11 Phase 1B-Building Construction - 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					
Off-Road	1.2572	17.4067	22.2384	0.0329		1.0684	1.0684		1.0684	1.0684	0.0000	3,091.5523	3,091.5523	0.7500		3,110.3021
Total	**1.2572**	**17.4067**	**22.2384**	**0.0329**		**1.0684**	**1.0684**		**1.0684**	**1.0684**	**0.0000**	**3,091.5523**	**3,091.5523**	**0.7500**		**3,110.3021**

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	0.1023	3.4756	0.7327	0.0103	0.7322	0.0109	0.7431	0.1863	0.0104	0.1967		1,103.2328	1,103.2328	0.0547		1,104.6014
Vendor	4.2829	172.7178	30.2584	0.3911	7.0933	0.3658	7.4591	1.9452	0.3500	2.2951		41,841.6553	41,841.6553	2.7228		41,909.7239
Worker	0.4437	0.2593	3.3897	0.0110	1.1336	7.1300e-003	1.1408	0.3007	6.5700e-003	0.3073		1,092.9041	1,092.9041	0.0244		1,093.5149
Total	**4.8289**	**176.4527**	**34.3807**	**0.4123**	**8.9591**	**0.3838**	**9.3429**	**2.4321**	**0.3670**	**2.7991**		**44,037.7922**	**44,037.7922**	**2.8019**		**44,107.8402**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	97.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**97.7266**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

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	0.0900	0.0526	0.6878	2.2200e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3300e-003	0.0623		221.7487	221.7487	4.9600e-003		221.8726
Total	**0.0900**	**0.0526**	**0.6878**	**2.2200e-003**	**0.2300**	**1.4500e-003**	**0.2315**	**0.0610**	**1.3300e-003**	**0.0623**		**221.7487**	**221.7487**	**4.9600e-003**		**221.8726**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	97.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**97.5139**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

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	0.0900	0.0526	0.6878	2.2200e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3300e-003	0.0623		221.7487	221.7487	4.9600e-003		221.8726
Total	**0.0900**	**0.0526**	**0.6878**	**2.2200e-003**	**0.2300**	**1.4500e-003**	**0.2315**	**0.0610**	**1.3300e-003**	**0.0623**		**221.7487**	**221.7487**	**4.9600e-003**		**221.8726**

3.13 Phase 1B-Paving - 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					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	5.7068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.9624**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

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	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
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	0.0515	0.0301	0.3930	1.2700e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		126.7135	126.7135	2.8300e-003		126.7843
Total	**0.0670**	**0.5593**	**0.5046**	**2.8400e-003**	**0.1664**	**2.4900e-003**	**0.1689**	**0.0444**	**2.3500e-003**	**0.0468**		**294.6955**	**294.6955**	**0.0112**		**294.9747**

3.13 Phase 1B-Paving - 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					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	5.7068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.2678**	**11.2952**	**17.2957**	**0.0228**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

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	0.0156	0.5292	0.1116	1.5700e-003	0.0349	1.6600e-003	0.0366	9.5800e-003	1.5900e-003	0.0112		167.9819	167.9819	8.3400e-003		168.1903
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	0.0515	0.0301	0.3930	1.2700e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		126.7135	126.7135	2.8300e-003		126.7843
Total	**0.0670**	**0.5593**	**0.5046**	**2.8400e-003**	**0.1664**	**2.4900e-003**	**0.1689**	**0.0444**	**2.3500e-003**	**0.0468**		**294.6955**	**294.6955**	**0.0112**		**294.9747**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	1.2653	6.0357	13.0530	0.0294		0.2065	0.2065		0.2065	0.2065		2,786.5161	2,786.5161	0.1123		2,789.3243
Total	**1.2653**	**6.0357**	**13.0530**	**0.0294**		**0.2065**	**0.2065**		**0.2065**	**0.2065**		**2,786.5161**	**2,786.5161**	**0.1123**		**2,789.3243**

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	0.0184	8.2200e-003	0.1316	5.8000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.3000e-004	0.0221		57.7430	57.7430	7.6000e-004		57.7620
Total	**0.0184**	**8.2200e-003**	**0.1316**	**5.8000e-004**	**0.0822**	**3.5000e-004**	**0.0825**	**0.0218**	**3.3000e-004**	**0.0221**		**57.7430**	**57.7430**	**7.6000e-004**		**57.7620**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.6937	10.6946	15.9958	0.0294		0.4281	0.4281		0.4281	0.4281	0.0000	2,786.5161	2,786.5161	0.1123		2,789.3243
Total	**0.6937**	**10.6946**	**15.9958**	**0.0294**		**0.4281**	**0.4281**		**0.4281**	**0.4281**	**0.0000**	**2,786.5161**	**2,786.5161**	**0.1123**		**2,789.3243**

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	0.0184	8.2200e-003	0.1316	5.8000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.3000e-004	0.0221		57.7430	57.7430	7.6000e-004		57.7620
Total	**0.0184**	**8.2200e-003**	**0.1316**	**5.8000e-004**	**0.0822**	**3.5000e-004**	**0.0825**	**0.0218**	**3.3000e-004**	**0.0221**		**57.7430**	**57.7430**	**7.6000e-004**		**57.7620**

3.15 Phase 2-Grading/Excavation - 2030

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	7.7299	29.8192	41.6794	0.1608		1.0847	1.0847		1.0847	1.0847		17,504.7055	17,504.7055	0.6853		17,521.8380
Total	**7.7299**	**29.8192**	**41.6794**	**0.1608**	**8.6733**	**1.0847**	**9.7581**	**3.5965**	**1.0847**	**4.6812**		**17,504.7055**	**17,504.7055**	**0.6853**		**17,521.8380**

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	0.2895	8.7910	3.1641	0.0439	1.0838	0.0161	1.0999	0.2970	0.0154	0.3125		4,727.1712	4,727.1712	0.2227		4,732.7379
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	0.0662	0.0296	0.4739	2.0800e-003	0.2957	1.2800e-003	0.2970	0.0784	1.1700e-003	0.0796		207.8749	207.8749	2.7200e-003		207.9431
Total	**0.3557**	**8.8206**	**3.6380**	**0.0460**	**1.3795**	**0.0174**	**1.3969**	**0.3755**	**0.0166**	**0.3921**		**4,935.0461**	**4,935.0461**	**0.2254**		**4,940.6810**

3.15 Phase 2-Grading/Excavation - 2030

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6962	71.9922	82.6424	0.1608		2.8677	2.8677		2.8677	2.8677	0.0000	17,504.7055	17,504.7055	0.6853		17,521.8380
Total	**3.6962**	**71.9922**	**82.6424**	**0.1608**	**8.6733**	**2.8677**	**11.5410**	**3.5965**	**2.8677**	**6.4642**	**0.0000**	**17,504.7055**	**17,504.7055**	**0.6853**		**17,521.8380**

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	0.2895	8.7910	3.1641	0.0439	1.0838	0.0161	1.0999	0.2970	0.0154	0.3125		4,727.1712	4,727.1712	0.2227		4,732.7379
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	0.0662	0.0296	0.4739	2.0800e-003	0.2957	1.2800e-003	0.2970	0.0784	1.1700e-003	0.0796		207.8749	207.8749	2.7200e-003		207.9431
Total	**0.3557**	**8.8206**	**3.6380**	**0.0460**	**1.3795**	**0.0174**	**1.3969**	**0.3755**	**0.0166**	**0.3921**		**4,935.0461**	**4,935.0461**	**0.2254**		**4,940.6810**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

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	0.0331	0.0148	0.2370	1.0400e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		103.9375	103.9375	1.3600e-003		103.9715
Total	**0.0331**	**0.0148**	**0.2370**	**1.0400e-003**	**0.1479**	**6.4000e-004**	**0.1485**	**0.0392**	**5.9000e-004**	**0.0398**		**103.9375**	**103.9375**	**1.3600e-003**		**103.9715**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0466		0.9462	0.9462		0.9462	0.9462	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**0.9312**	**19.0656**	**22.9600**	**0.0466**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

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	0.0331	0.0148	0.2370	1.0400e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		103.9375	103.9375	1.3600e-003		103.9715
Total	**0.0331**	**0.0148**	**0.2370**	**1.0400e-003**	**0.1479**	**6.4000e-004**	**0.1485**	**0.0392**	**5.9000e-004**	**0.0398**		**103.9375**	**103.9375**	**1.3600e-003**		**103.9715**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4544	9.0577	19.2955	0.0373		0.1819	0.1819		0.1819	0.1819		3,531.9325	3,531.9325	0.1289		3,535.1557
Total	**1.4544**	**9.0577**	**19.2955**	**0.0373**	**0.0000**	**0.1819**	**0.1819**	**0.0000**	**0.1819**	**0.1819**		**3,531.9325**	**3,531.9325**	**0.1289**		**3,535.1557**

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	0.5789	17.5820	6.3281	0.0877	2.1675	0.0322	2.1997	0.5941	0.0308	0.6249		9,454.3423	9,454.3423	0.4453		9,465.4758
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	0.0442	0.0197	0.3160	1.3900e-003	0.1972	8.5000e-004	0.1980	0.0523	7.8000e-004	0.0531		138.5833	138.5833	1.8200e-003		138.6287
Total	**0.6231**	**17.6017**	**6.6441**	**0.0891**	**2.3647**	**0.0331**	**2.3977**	**0.6464**	**0.0316**	**0.6780**		**9,592.9256**	**9,592.9256**	**0.4472**		**9,604.1046**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7458	16.5327	21.6956	0.0373		1.0704	1.0704		1.0704	1.0704	0.0000	3,531.9325	3,531.9325	0.1289		3,535.1557
Total	**0.7458**	**16.5327**	**21.6956**	**0.0373**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**3,531.9325**	**3,531.9325**	**0.1289**		**3,535.1557**

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	0.5789	17.5820	6.3281	0.0877	2.1675	0.0322	2.1997	0.5941	0.0308	0.6249		9,454.3423	9,454.3423	0.4453		9,465.4758
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	0.0442	0.0197	0.3160	1.3900e-003	0.1972	8.5000e-004	0.1980	0.0523	7.8000e-004	0.0531		138.5833	138.5833	1.8200e-003		138.6287
Total	**0.6231**	**17.6017**	**6.6441**	**0.0891**	**2.3647**	**0.0331**	**2.3977**	**0.6464**	**0.0316**	**0.6780**		**9,592.9256**	**9,592.9256**	**0.4472**		**9,604.1046**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	1.4068	8.4306	17.2058	0.0333		0.1588	0.1588		0.1588	0.1588		3,116.3756	3,116.3756	0.1249		3,119.4980
Total	**1.4068**	**8.4306**	**17.2058**	**0.0333**		**0.1588**	**0.1588**		**0.1588**	**0.1588**		**3,116.3756**	**3,116.3756**	**0.1249**		**3,119.4980**

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	0.0871	2.6454	0.9521	0.0132	0.3261	4.8500e-003	0.3310	0.0894	4.6400e-003	0.0940		1,422.5082	1,422.5082	0.0670		1,424.1834
Vendor	2.5406	107.6959	27.1996	0.3504	7.0969	0.1116	7.2085	1.9465	0.1068	2.0533		37,746.6146	37,746.6146	2.0433		37,797.6968
Worker	0.5594	0.2499	4.0020	0.0176	2.4973	0.0108	2.5081	0.6624	9.9100e-003	0.6723		1,755.3884	1,755.3884	0.0230		1,755.9636
Total	**3.1871**	**110.5912**	**32.1537**	**0.3812**	**9.9203**	**0.1273**	**10.0476**	**2.6983**	**0.1213**	**2.8196**		**40,924.5112**	**40,924.5112**	**2.1333**		**40,977.8438**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.7782	14.7237	19.2408	0.0333		0.8763	0.8763		0.8763	0.8763	0.0000	3,116.3756	3,116.3756	0.1249		3,119.4980
Total	**0.7782**	**14.7237**	**19.2408**	**0.0333**		**0.8763**	**0.8763**		**0.8763**	**0.8763**	**0.0000**	**3,116.3756**	**3,116.3756**	**0.1249**		**3,119.4980**

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	0.0871	2.6454	0.9521	0.0132	0.3261	4.8500e-003	0.3310	0.0894	4.6400e-003	0.0940		1,422.5082	1,422.5082	0.0670		1,424.1834
Vendor	2.5406	107.6959	27.1996	0.3504	7.0969	0.1116	7.2085	1.9465	0.1068	2.0533		37,746.6146	37,746.6146	2.0433		37,797.6968
Worker	0.5594	0.2499	4.0020	0.0176	2.4973	0.0108	2.5081	0.6624	9.9100e-003	0.6723		1,755.3884	1,755.3884	0.0230		1,755.9636
Total	**3.1871**	**110.5912**	**32.1537**	**0.3812**	**9.9203**	**0.1273**	**10.0476**	**2.6983**	**0.1213**	**2.8196**		**40,924.5112**	**40,924.5112**	**2.1333**		**40,977.8438**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	105.1859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1743	1.1417	2.3970	3.9600e-003		0.0271	0.0271		0.0271	0.0271		375.2641	375.2641	0.0152		375.6438
Total	**105.3602**	**1.1417**	**2.3970**	**3.9600e-003**		**0.0271**	**0.0271**		**0.0271**	**0.0271**		**375.2641**	**375.2641**	**0.0152**		**375.6438**

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	0.1141	0.0510	0.8162	3.5900e-003	0.5093	2.2000e-003	0.5115	0.1351	2.0200e-003	0.1371		358.0068	358.0068	4.6900e-003		358.1242
Total	**0.1141**	**0.0510**	**0.8162**	**3.5900e-003**	**0.5093**	**2.2000e-003**	**0.5115**	**0.1351**	**2.0200e-003**	**0.1371**		**358.0068**	**358.0068**	**4.6900e-003**		**358.1242**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	105.1859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0152		375.6438
Total	**105.2651**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0152**		**375.6438**

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	0.1141	0.0510	0.8162	3.5900e-003	0.5093	2.2000e-003	0.5115	0.1351	2.0200e-003	0.1371		358.0068	358.0068	4.6900e-003		358.1242
Total	**0.1141**	**0.0510**	**0.8162**	**3.5900e-003**	**0.5093**	**2.2000e-003**	**0.5115**	**0.1351**	**2.0200e-003**	**0.1371**		**358.0068**	**358.0068**	**4.6900e-003**		**358.1242**

3.20 Phase 2-Paving - 2030

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					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3738**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.3400e-003	0.2836	0.1021	1.4200e-003	0.0432	5.2000e-004	0.0437	0.0116	5.0000e-004	0.0121		152.4894	152.4894	7.1800e-003		152.6690
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	0.0110	4.9300e-003	0.0790	3.5000e-004	0.0493	2.1000e-004	0.0495	0.0131	2.0000e-004	0.0133		34.6458	34.6458	4.5000e-004		34.6572
Total	**0.0204**	**0.2885**	**0.1811**	**1.7700e-003**	**0.0925**	**7.3000e-004**	**0.0932**	**0.0247**	**7.0000e-004**	**0.0254**		**187.1352**	**187.1352**	**7.6300e-003**		**187.3262**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.5609	11.2952	17.2957	0.0281		0.6093	0.6093		0.6093	0.6093	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.5502**	**11.2952**	**17.2957**	**0.0281**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.3400e-003	0.2836	0.1021	1.4200e-003	0.0432	5.2000e-004	0.0437	0.0116	5.0000e-004	0.0121		152.4894	152.4894	7.1800e-003		152.6690
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	0.0110	4.9300e-003	0.0790	3.5000e-004	0.0493	2.1000e-004	0.0495	0.0131	2.0000e-004	0.0133		34.6458	34.6458	4.5000e-004		34.6572
Total	**0.0204**	**0.2885**	**0.1811**	**1.7700e-003**	**0.0925**	**7.3000e-004**	**0.0932**	**0.0247**	**7.0000e-004**	**0.0254**		**187.1352**	**187.1352**	**7.6300e-003**		**187.3262**

3.20 Phase 2-Paving - 2031

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					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3738**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.2900e-003	0.2802	0.1024	1.4100e-003	0.1196	5.1000e-004	0.1201	0.0304	4.9000e-004	0.0308		151.9463	151.9463	7.1700e-003		152.1255
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	0.0102	4.5500e-003	0.0745	3.4000e-004	0.0493	2.0000e-004	0.0495	0.0131	1.8000e-004	0.0133		33.8618	33.8618	4.2000e-004		33.8722
Total	**0.0195**	**0.2847**	**0.1769**	**1.7500e-003**	**0.1689**	**7.1000e-004**	**0.1696**	**0.0434**	**6.7000e-004**	**0.0441**		**185.8081**	**185.8081**	**7.5900e-003**		**185.9977**

3.20 Phase 2-Paving - 2031

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					
Off-Road	0.5609	11.2952	17.2957	0.0281		0.6093	0.6093		0.6093	0.6093	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.5502**	**11.2952**	**17.2957**	**0.0281**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.2900e-003	0.2802	0.1024	1.4100e-003	0.1196	5.1000e-004	0.1201	0.0304	4.9000e-004	0.0308		151.9463	151.9463	7.1700e-003		152.1255
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	0.0102	4.5500e-003	0.0745	3.4000e-004	0.0493	2.0000e-004	0.0495	0.0131	1.8000e-004	0.0133		33.8618	33.8618	4.2000e-004		33.8722
Total	**0.0195**	**0.2847**	**0.1769**	**1.7500e-003**	**0.1689**	**7.1000e-004**	**0.1696**	**0.0434**	**6.7000e-004**	**0.0441**		**185.8081**	**185.8081**	**7.5900e-003**		**185.9977**

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	34.5315	125.6303	281.6729	0.8485	65.2203	0.9087	66.1290	17.4523	0.8540	18.3063		85,736.0436	85,736.0436	3.6076		85,826.2326
Unmitigated	34.5315	125.6303	281.6729	0.8485	65.2203	0.9087	66.1290	17.4523	0.8540	18.3063		85,736.0436	85,736.0436	3.6076		85,826.2326

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	8,378.25	7,947.24	3862.09	11,814,384	11,814,384
Total	19,823.12	21,165.33	13,590.90	26,858,912	26,858,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Gasoline/Service Station	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Hotel	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Other Non-Asphalt Surfaces	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Parking Lot	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Strip Mall	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812

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	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
NaturalGas Unmitigated	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740

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					
Discount Club	960.986	0.0104	0.0942	0.0791	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0572	113.0572	2.1700e-003	2.0700e-003	113.7291
Gasoline/Service Station	204.066	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		24.0077	24.0077	4.6000e-004	4.4000e-004	24.1504
Hotel	16024.4	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1227.45	0.0132	0.1203	0.1011	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		144.4054	144.4054	2.7700e-003	2.6500e-003	145.2635
Total		**0.1986**	**1.8056**	**1.5167**	**0.0108**		**0.1372**	**0.1372**		**0.1372**	**0.1372**		**2,166.6983**	**2,166.6983**	**0.0415**	**0.0397**	**2,179.5740**

5.2 Energy by Land Use - NaturalGas

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					
Discount Club	0.960986	0.0104	0.0942	0.0791	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0572	113.0572	2.1700e-003	2.0700e-003	113.7291
Gasoline/Service Station	0.204066	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		24.0077	24.0077	4.6000e-004	4.4000e-004	24.1504
Hotel	16.0244	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1.22745	0.0132	0.1203	0.1011	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		144.4054	144.4054	2.7700e-003	2.6500e-003	145.2635
Total		**0.1986**	**1.8056**	**1.5167**	**0.0108**		**0.1372**	**0.1372**		**0.1372**	**0.1372**		**2,166.6983**	**2,166.6983**	**0.0415**	**0.0397**	**2,179.5740**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Unmitigated	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447

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	1.5044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Total	**12.0924**	**5.9000e-004**	**0.0637**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1356**	**0.1356**	**3.6000e-004**		**0.1447**

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	1.5044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Total	**12.0924**	**5.9000e-004**	**0.0637**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1356**	**0.1356**	**3.6000e-004**		**0.1447**

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

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

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	189.04	1000sqft	4.34	189,037.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
Land Use - Matches Project Applicant's model.
Construction Phase - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
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Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment - Matches Project Applicant's model.
Off-road Equipment -
Trips and VMT - Matches Project Applicant's model.
Grading - Matches Project Applicant's model.
Architectural Coating - Matches Project Applicant's model.
Construction Off-road Equipment Mitigation - Matches Project Applicant's model.

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	235,930.00	92,019.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	226,235.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	205,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	707,791.00	276,056.00
tblArchitecturalCoating	ConstArea_Parking	82,015.00	26,022.74
tblArchitecturalCoating	ConstArea_Parking	82,015.00	7,983.68
tblArchitecturalCoating	ConstArea_Parking	82,015.00	26,528.04
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
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tblTripsAndVMT	WorkerTripNumber	148.00	28.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00

tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblTripsAndVMT	WorkerTripNumber	738.00	304.00
tblTripsAndVMT	WorkerTripNumber	148.00	62.00
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tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	738.00	300.00
tblTripsAndVMT	WorkerTripNumber	148.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2020	56.5213	318.2224	147.2012	0.6545	28.8756	8.4269	33.7429	12.8669	7.8593	17.3963	0.0000	67,857.1400	67,857.1400	8.4188	0.0000	68,067.6106
2021	97.8219	198.1004	59.8431	0.4295	8.9591	1.5834	10.5425	2.4321	1.4965	3.9286	0.0000	45,448.4469	45,448.4469	3.7808	0.0000	45,542.9670
2030	105.4848	118.5776	52.3619	0.4000	20.5788	1.1023	21.2314	10.6163	1.1015	11.2674	0.0000	42,490.0461	42,490.0461	2.3872	0.0000	42,549.7266
2031	4.3945	7.4102	16.0247	0.0298	0.1689	0.3314	0.5002	0.0434	0.3313	0.3747	0.0000	2,837.1621	2,837.1621	0.1323	0.0000	2,840.4697
Maximum	**105.4848**	**318.2224**	**147.2012**	**0.6545**	**28.8756**	**8.4269**	**33.7429**	**12.8669**	**7.8593**	**17.3963**	**0.0000**	**67,857.1400**	**67,857.1400**	**8.4188**	**0.0000**	**68,067.6106**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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
Year	lb/day										lb/day					
2020	50.2101	295.3796	169.9225	0.6545	28.8756	6.1206	32.0467	12.8669	6.1147	16.0162	0.0000	67,857.1400	67,857.1400	8.4188	0.0000	68,067.6106
2021	97.6093	194.0699	61.5242	0.4295	8.9591	1.4689	10.4280	2.4321	1.4513	3.8834	0.0000	45,448.4469	45,448.4469	3.7808	0.0000	45,542.9670
2030	105.3897	124.8707	86.3948	0.4000	20.5788	2.8852	22.6294	10.6163	2.8844	12.6654	0.0000	42,490.0461	42,490.0461	2.3872	0.0000	42,549.7266
2031	3.5710	11.5852	17.4708	0.0298	0.1689	0.6101	0.7789	0.0434	0.6100	0.6534	0.0000	2,837.1620	2,837.1620	0.1323	0.0000	2,840.4697
Maximum	**105.3897**	**295.3796**	**169.9225**	**0.6545**	**28.8756**	**6.1206**	**32.0467**	**12.8669**	**6.1147**	**16.0162**	**0.0000**	**67,857.1400**	**67,857.1400**	**8.4188**	**0.0000**	**68,067.6106**

	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	N20	CO2e
Percent Reduction	**2.82**	**2.55**	**-21.74**	**0.00**	**0.00**	**3.14**	**0.20**	**0.00**	**-2.52**	**-0.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Energy	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
Mobile	29.5915	130.8808	300.7782	0.7935	65.2203	0.9186	66.1389	17.4523	0.8634	18.3157		80,135.6620	80,135.6620	3.7807		80,230.1791
Total	**41.8825**	**132.6870**	**302.3585**	**0.8043**	**65.2203**	**1.0560**	**66.2763**	**17.4523**	**1.0009**	**18.4532**		**82,302.4959**	**82,302.4959**	**3.8226**	**0.0397**	**82,409.8977**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Energy	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
Mobile	29.5915	130.8808	300.7782	0.7935	65.2203	0.9186	66.1389	17.4523	0.8634	18.3157		80,135.6620	80,135.6620	3.7807		80,230.1791
Total	**41.8825**	**132.6870**	**302.3585**	**0.8043**	**65.2203**	**1.0560**	**66.2763**	**17.4523**	**1.0009**	**18.4532**		**82,302.4959**	**82,302.4959**	**3.8226**	**0.0397**	**82,409.8977**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/9/2020	6	30	
2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	
8	Phase 1B-Foundation/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/1/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/26/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,500; Non-Residential Outdoor: 68,500; Striped Parking Area: 7,984 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37
Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Welders	1	8.00	46	0.45

Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundation/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundation/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundation/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Foundation/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Excavators	2	8.00	158	0.38
Phase 2-Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41

Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Cranes	1	8.00	231	0.29
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Drainage/Utilities/Sub	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Building Construction	14	300.00	1,110.00	2,100.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1A-Paving	12	30.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Building Construction	11	138.00	1,110.00	1,944.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Grading/Excavation	14	36.00	0.00	1,240.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Drainage/Utilities/Sub	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Foundations/Concrete	9	24.00	0.00	1,860.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Building Construction	9	304.00	1,110.00	2,612.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Architectural Coatings	1	62.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT
Phase 2-Paving	6	6.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Phase 1A-Grading/Excavation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	8.3854	96.5982	56.7875	0.1224		3.8709	3.8709		3.5612	3.5612		11,851.5424	11,851.5424	3.8330		11,947.3681
Total	**8.3854**	**96.5982**	**56.7875**	**0.1224**	**6.0221**	**3.8709**	**9.8930**	**3.3102**	**3.5612**	**6.8714**		**11,851.5424**	**11,851.5424**	**3.8330**		**11,947.3681**

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	0.2261	7.8260	1.6343	0.0209	0.4659	0.0254	0.4913	0.1277	0.0243	0.1520		2,230.6495	2,230.6495	0.1192		2,233.6295
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	0.0956	0.0676	0.6552	1.9700e-003	0.2136	1.3800e-003	0.2150	0.0567	1.2700e-003	0.0579		196.5770	196.5770	4.8100e-003		196.6972
Total	**0.3217**	**7.8936**	**2.2895**	**0.0228**	**0.6794**	**0.0268**	**0.7062**	**0.1843**	**0.0256**	**0.2099**		**2,427.2265**	**2,427.2265**	**0.1240**		**2,430.3267**

3.2 Phase 1A-Grading/Excavation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	3.0076	58.4133	65.8616	0.1224		2.2714	2.2714		2.2714	2.2714	0.0000	11,851.5424	11,851.5424	3.8330		11,947.3681
Total	**3.0076**	**58.4133**	**65.8616**	**0.1224**	**6.0221**	**2.2714**	**8.2935**	**3.3102**	**2.2714**	**5.5817**	**0.0000**	**11,851.5424**	**11,851.5424**	**3.8330**		**11,947.3681**

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	0.2261	7.8260	1.6343	0.0209	0.4659	0.0254	0.4913	0.1277	0.0243	0.1520		2,230.6495	2,230.6495	0.1192		2,233.6295
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	0.0956	0.0676	0.6552	1.9700e-003	0.2136	1.3800e-003	0.2150	0.0567	1.2700e-003	0.0579		196.5770	196.5770	4.8100e-003		196.6972
Total	**0.3217**	**7.8936**	**2.2895**	**0.0228**	**0.6794**	**0.0268**	**0.7062**	**0.1843**	**0.0256**	**0.2099**		**2,427.2265**	**2,427.2265**	**0.1240**		**2,430.3267**

3.3 Phase 1B-Grading/Excavation - 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					7.5817	0.0000	7.5817	3.4786	0.0000	3.4786			0.0000			0.0000
Off-Road	3.0919	32.7086	19.8631	0.0429		1.5038	1.5038		1.3835	1.3835		4,151.1071	4,151.1071	1.3426		4,184.6709
Total	**3.0919**	**32.7086**	**19.8631**	**0.0429**	**7.5817**	**1.5038**	**9.0854**	**3.4786**	**1.3835**	**4.8621**		**4,151.1071**	**4,151.1071**	**1.3426**		**4,184.6709**

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	0.1130	3.9130	0.8172	0.0104	0.2329	0.0127	0.2456	0.0638	0.0122	0.0760		1,115.3248	1,115.3248	0.0596		1,116.8148
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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.1792**	**3.9598**	**1.2707**	**0.0118**	**0.3808**	**0.0137**	**0.3945**	**0.1031**	**0.0130**	**0.1161**		**1,251.4165**	**1,251.4165**	**0.0629**		**1,252.9898**

3.3 Phase 1B-Grading/Excavation - 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					7.5817	0.0000	7.5817	3.4786	0.0000	3.4786			0.0000			0.0000
Off-Road	1.0496	21.0903	25.9956	0.0429		0.9926	0.9926		0.9926	0.9926	0.0000	4,151.1071	4,151.1071	1.3426		4,184.6709
Total	**1.0496**	**21.0903**	**25.9956**	**0.0429**	**7.5817**	**0.9926**	**8.5743**	**3.4786**	**0.9926**	**4.4713**	**0.0000**	**4,151.1071**	**4,151.1071**	**1.3426**		**4,184.6709**

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	0.1130	3.9130	0.8172	0.0104	0.2329	0.0127	0.2456	0.0638	0.0122	0.0760		1,115.3248	1,115.3248	0.0596		1,116.8148
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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.1792**	**3.9598**	**1.2707**	**0.0118**	**0.3808**	**0.0137**	**0.3945**	**0.1031**	**0.0130**	**0.1161**		**1,251.4165**	**1,251.4165**	**0.0629**		**1,252.9898**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9662	29.8224	25.6127	0.0533		1.3732	1.3732		1.2648	1.2648		5,145.9477	5,145.9477	1.6511		5,187.2261
Total	**2.9662**	**29.8224**	**25.6127**	**0.0533**	**0.0000**	**1.3732**	**1.3732**	**0.0000**	**1.2648**	**1.2648**		**5,145.9477**	**5,145.9477**	**1.6511**		**5,187.2261**

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	0.1029	0.0728	0.7056	2.1200e-003	0.2300	1.4900e-003	0.2315	0.0610	1.3700e-003	0.0624		211.6983	211.6983	5.1800e-003		211.8278
Total	**0.1029**	**0.0728**	**0.7056**	**2.1200e-003**	**0.2300**	**1.4900e-003**	**0.2315**	**0.0610**	**1.3700e-003**	**0.0624**		**211.6983**	**211.6983**	**5.1800e-003**		**211.8278**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2879	25.9304	33.7815	0.0533		1.2692	1.2692		1.2692	1.2692	0.0000	5,145.9477	5,145.9477	1.6511		5,187.2261
Total	**1.2879**	**25.9304**	**33.7815**	**0.0533**	**0.0000**	**1.2692**	**1.2692**	**0.0000**	**1.2692**	**1.2692**	**0.0000**	**5,145.9477**	**5,145.9477**	**1.6511**		**5,187.2261**

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	0.1029	0.0728	0.7056	2.1200e-003	0.2300	1.4900e-003	0.2315	0.0610	1.3700e-003	0.0624		211.6983	211.6983	5.1800e-003		211.8278
Total	**0.1029**	**0.0728**	**0.7056**	**2.1200e-003**	**0.2300**	**1.4900e-003**	**0.2315**	**0.0610**	**1.3700e-003**	**0.0624**		**211.6983**	**211.6983**	**5.1800e-003**		**211.8278**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.7797	32.9912	29.5159	0.0604		1.5521	1.5521		1.5289	1.5289		4,721.1406	4,721.1406	0.5307		4,734.4070
Total	**4.7797**	**32.9912**	**29.5159**	**0.0604**	**0.0000**	**1.5521**	**1.5521**	**0.0000**	**1.5289**	**1.5289**		**4,721.1406**	**4,721.1406**	**0.5307**		**4,734.4070**

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	0.6782	23.4779	4.9030	0.0626	1.3976	0.0762	1.4738	0.3830	0.0729	0.4559		6,691.9486	6,691.9486	0.3576		6,700.8886
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	0.6029	0.4264	4.1326	0.0124	1.3472	8.7200e-003	1.3559	0.3574	8.0400e-003	0.3654		1,239.9473	1,239.9473	0.0303		1,240.7055
Total	**1.2811**	**23.9043**	**9.0356**	**0.0750**	**2.7448**	**0.0849**	**2.8297**	**0.7403**	**0.0810**	**0.8213**		**7,931.8959**	**7,931.8959**	**0.3879**		**7,941.5941**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.9015	30.6794	30.1044	0.0604		1.4605	1.4605		1.4605	1.4605	0.0000	4,721.1406	4,721.1406	0.5307		4,734.4070
Total	**3.9015**	**30.6794**	**30.1044**	**0.0604**	**0.0000**	**1.4605**	**1.4605**	**0.0000**	**1.4605**	**1.4605**	**0.0000**	**4,721.1406**	**4,721.1406**	**0.5307**		**4,734.4070**

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	0.6782	23.4779	4.9030	0.0626	1.3976	0.0762	1.4738	0.3830	0.0729	0.4559		6,691.9486	6,691.9486	0.3576		6,700.8886
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	0.6029	0.4264	4.1326	0.0124	1.3472	8.7200e-003	1.3559	0.3574	8.0400e-003	0.3654		1,239.9473	1,239.9473	0.0303		1,240.7055
Total	**1.2811**	**23.9043**	**9.0356**	**0.0750**	**2.7448**	**0.0849**	**2.8297**	**0.7403**	**0.0810**	**0.8213**		**7,931.8959**	**7,931.8959**	**0.3879**		**7,941.5941**

3.6 Phase 1A-Building Construction - 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					
Off-Road	4.3005	45.5138	40.0396	0.0694		2.0369	2.0369		1.8966	1.8966		6,666.7050	6,666.7050	1.9533		6,715.5373
Total	**4.3005**	**45.5138**	**40.0396**	**0.0694**		**2.0369**	**2.0369**		**1.8966**	**1.8966**		**6,666.7050**	**6,666.7050**	**1.9533**		**6,715.5373**

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	0.2967	10.2716	2.1450	0.0274	0.6114	0.0333	0.6448	0.1676	0.0319	0.1995		2,927.7275	2,927.7275	0.1565		2,931.6388
Vendor	4.8062	184.0013	36.4868	0.3815	7.0928	0.4316	7.5243	1.9450	0.4129	2.3579		40,775.2706	40,775.2706	3.0591		40,851.7481
Worker	1.1029	0.7800	7.5597	0.0228	2.4644	0.0160	2.4804	0.6537	0.0147	0.6684		2,268.1962	2,268.1962	0.0555		2,269.5832
Total	**6.2058**	**195.0529**	**46.1915**	**0.4316**	**10.1686**	**0.4809**	**10.6495**	**2.7662**	**0.4595**	**3.2257**		**45,971.1943**	**45,971.1943**	**3.2710**		**46,052.9701**

3.6 Phase 1A-Building Construction - 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					
Off-Road	1.9529	33.1743	48.4591	0.0694		1.6131	1.6131		1.6131	1.6131	0.0000	6,666.7050	6,666.7050	1.9533		6,715.5373
Total	**1.9529**	**33.1743**	**48.4591**	**0.0694**		**1.6131**	**1.6131**		**1.6131**	**1.6131**	**0.0000**	**6,666.7050**	**6,666.7050**	**1.9533**		**6,715.5373**

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	0.2967	10.2716	2.1450	0.0274	0.6114	0.0333	0.6448	0.1676	0.0319	0.1995		2,927.7275	2,927.7275	0.1565		2,931.6388
Vendor	4.8062	184.0013	36.4868	0.3815	7.0928	0.4316	7.5243	1.9450	0.4129	2.3579		40,775.2706	40,775.2706	3.0591		40,851.7481
Worker	1.1029	0.7800	7.5597	0.0228	2.4644	0.0160	2.4804	0.6537	0.0147	0.6684		2,268.1962	2,268.1962	0.0555		2,269.5832
Total	**6.2058**	**195.0529**	**46.1915**	**0.4316**	**10.1686**	**0.4809**	**10.6495**	**2.7662**	**0.4595**	**3.2257**		**45,971.1943**	**45,971.1943**	**3.2710**		**46,052.9701**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	29.6849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3229	2.2451	2.4419	3.9600e-003		0.1479	0.1479		0.1479	0.1479		375.2641	375.2641	0.0291		375.9904
Total	**30.0078**	**2.2451**	**2.4419**	**3.9600e-003**		**0.1479**	**0.1479**		**0.1479**	**0.1479**		**375.2641**	**375.2641**	**0.0291**		**375.9904**

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	0.2206	0.1560	1.5119	4.5500e-003	0.4929	3.1900e-003	0.4961	0.1307	2.9400e-003	0.1337		453.6393	453.6393	0.0111		453.9166
Total	**0.2206**	**0.1560**	**1.5119**	**4.5500e-003**	**0.4929**	**3.1900e-003**	**0.4961**	**0.1307**	**2.9400e-003**	**0.1337**		**453.6393**	**453.6393**	**0.0111**		**453.9166**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	29.6849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0291		375.9904
Total	**29.7642**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0291**		**375.9904**

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	0.2206	0.1560	1.5119	4.5500e-003	0.4929	3.1900e-003	0.4961	0.1307	2.9400e-003	0.1337		453.6393	453.6393	0.0111		453.9166
Total	**0.2206**	**0.1560**	**1.5119**	**4.5500e-003**	**0.4929**	**3.1900e-003**	**0.4961**	**0.1307**	**2.9400e-003**	**0.1337**		**453.6393**	**453.6393**	**0.0111**		**453.9166**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.0662**	**0.0468**	**0.4536**	**1.3700e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**136.0918**	**136.0918**	**3.3300e-003**		**136.1750**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.0662**	**0.0468**	**0.4536**	**1.3700e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**136.0918**	**136.0918**	**3.3300e-003**		**136.1750**

3.9 Phase 1B-Foundation/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.3362	22.6071	19.9633	0.0328		1.3151	1.3151		1.2421	1.2421		3,151.2568	3,151.2568	0.6885		3,168.4701
Total	**2.3362**	**22.6071**	**19.9633**	**0.0328**	**0.0000**	**1.3151**	**1.3151**	**0.0000**	**1.2421**	**1.2421**		**3,151.2568**	**3,151.2568**	**0.6885**		**3,168.4701**

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	0.3930	13.6065	2.8415	0.0363	0.8100	0.0442	0.8541	0.2220	0.0423	0.2642		3,878.2884	3,878.2884	0.2073		3,883.4695
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	0.0882	0.0624	0.6048	1.8200e-003	0.1972	1.2800e-003	0.1984	0.0523	1.1800e-003	0.0535		181.4557	181.4557	4.4400e-003		181.5667
Total	**0.4813**	**13.6689**	**3.4463**	**0.0381**	**1.0071**	**0.0455**	**1.0526**	**0.2743**	**0.0434**	**0.3177**		**4,059.7441**	**4,059.7441**	**0.2117**		**4,065.0362**

3.9 Phase 1B-Foundation/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7458	16.5327	21.6956	0.0328		1.0704	1.0704		1.0704	1.0704	0.0000	3,151.2568	3,151.2568	0.6885		3,168.4701
Total	**0.7458**	**16.5327**	**21.6956**	**0.0328**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**3,151.2568**	**3,151.2568**	**0.6885**		**3,168.4701**

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	0.3930	13.6065	2.8415	0.0363	0.8100	0.0442	0.8541	0.2220	0.0423	0.2642		3,878.2884	3,878.2884	0.2073		3,883.4695
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	0.0882	0.0624	0.6048	1.8200e-003	0.1972	1.2800e-003	0.1984	0.0523	1.1800e-003	0.0535		181.4557	181.4557	4.4400e-003		181.5667
Total	**0.4813**	**13.6689**	**3.4463**	**0.0381**	**1.0071**	**0.0455**	**1.0526**	**0.2743**	**0.0434**	**0.3177**		**4,059.7441**	**4,059.7441**	**0.2117**		**4,065.0362**

3.10 Phase 1A-Paving - 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					
Off-Road	3.8909	38.9005	32.8507	0.0718		1.7541	1.7541		1.6138	1.6138		6,952.5170	6,952.5170	2.2486		7,008.7316
Paving	8.9679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**12.8588**	**38.9005**	**32.8507**	**0.0718**		**1.7541**	**1.7541**		**1.6138**	**1.6138**		**6,952.5170**	**6,952.5170**	**2.2486**		**7,008.7316**

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	0.1103	0.0780	0.7560	2.2800e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668		226.8196	226.8196	5.5500e-003		226.9583
Total	**0.1103**	**0.0780**	**0.7560**	**2.2800e-003**	**0.2464**	**1.6000e-003**	**0.2480**	**0.0654**	**1.4700e-003**	**0.0668**		**226.8196**	**226.8196**	**5.5500e-003**		**226.9583**

3.10 Phase 1A-Paving - 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					
Off-Road	1.7614	34.9076	45.4191	0.0718		1.6126	1.6126		1.6126	1.6126	0.0000	6,952.5170	6,952.5170	2.2486		7,008.7316
Paving	8.9679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**10.7293**	**34.9076**	**45.4191**	**0.0718**		**1.6126**	**1.6126**		**1.6126**	**1.6126**	**0.0000**	**6,952.5170**	**6,952.5170**	**2.2486**		**7,008.7316**

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	0.1103	0.0780	0.7560	2.2800e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668		226.8196	226.8196	5.5500e-003		226.9583
Total	**0.1103**	**0.0780**	**0.7560**	**2.2800e-003**	**0.2464**	**1.6000e-003**	**0.2480**	**0.0654**	**1.4700e-003**	**0.0668**		**226.8196**	**226.8196**	**5.5500e-003**		**226.9583**

3.11 Phase 1B-Building Construction - 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					
Off-Road	2.7412	23.5182	20.9151	0.0329		1.3783	1.3783		1.2976	1.2976		3,091.2085	3,091.2085	0.7605		3,110.2202
Total	**2.7412**	**23.5182**	**20.9151**	**0.0329**		**1.3783**	**1.3783**		**1.2976**	**1.2976**		**3,091.2085**	**3,091.2085**	**0.7605**		**3,110.2202**

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	0.1114	3.8548	0.8050	0.0103	0.2895	0.0125	0.3020	0.0776	0.0120	0.0896		1,098.7456	1,098.7456	0.0587		1,100.2135
Vendor	4.8062	184.0013	36.4868	0.3815	7.0928	0.4316	7.5243	1.9450	0.4129	2.3579		40,775.2706	40,775.2706	3.0591		40,851.7481
Worker	0.5074	0.3588	3.4774	0.0105	1.1336	7.3400e-003	1.1410	0.3007	6.7600e-003	0.3075		1,043.3703	1,043.3703	0.0255		1,044.0083
Total	**5.4249**	**188.2149**	**40.7692**	**0.4022**	**8.5159**	**0.4514**	**8.9673**	**2.3233**	**0.4316**	**2.7549**		**42,917.3865**	**42,917.3865**	**3.1433**		**42,995.9699**

3.11 Phase 1B-Building Construction - 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					
Off-Road	1.3361	17.5316	22.3348	0.0329		1.0940	1.0940		1.0940	1.0940	0.0000	3,091.2085	3,091.2085	0.7605		3,110.2202
Total	**1.3361**	**17.5316**	**22.3348**	**0.0329**		**1.0940**	**1.0940**		**1.0940**	**1.0940**	**0.0000**	**3,091.2085**	**3,091.2085**	**0.7605**		**3,110.2202**

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	0.1114	3.8548	0.8050	0.0103	0.2895	0.0125	0.3020	0.0776	0.0120	0.0896		1,098.7456	1,098.7456	0.0587		1,100.2135
Vendor	4.8062	184.0013	36.4868	0.3815	7.0928	0.4316	7.5243	1.9450	0.4129	2.3579		40,775.2706	40,775.2706	3.0591		40,851.7481
Worker	0.5074	0.3588	3.4774	0.0105	1.1336	7.3400e-003	1.1410	0.3007	6.7600e-003	0.3075		1,043.3703	1,043.3703	0.0255		1,044.0083
Total	**5.4249**	**188.2149**	**40.7692**	**0.4022**	**8.5159**	**0.4514**	**8.9673**	**2.3233**	**0.4316**	**2.7549**		**42,917.3865**	**42,917.3865**	**3.1433**		**42,995.9699**

3.11 Phase 1B-Building Construction - 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					
Off-Road	2.4548	21.4372	20.5573	0.0329		1.1830	1.1830		1.1136	1.1136		3,091.5523	3,091.5523	0.7500		3,110.3021
Total	**2.4548**	**21.4372**	**20.5573**	**0.0329**		**1.1830**	**1.1830**		**1.1136**	**1.1136**		**3,091.5523**	**3,091.5523**	**0.7500**		**3,110.3021**

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	0.1051	3.5568	0.7865	0.0101	0.7322	0.0111	0.7433	0.1863	0.0106	0.1969		1,084.5820	1,084.5820	0.0574		1,086.0171
Vendor	4.5235	172.7860	35.3279	0.3763	7.0933	0.3823	7.4755	1.9452	0.3657	2.3109		40,265.5520	40,265.5520	2.9506		40,339.3177
Worker	0.4701	0.3203	3.1714	0.0101	1.1336	7.1300e-003	1.1408	0.3007	6.5700e-003	0.3073		1,006.7606	1,006.7606	0.0228		1,007.3301
Total	**5.0987**	**176.6632**	**39.2858**	**0.3966**	**8.9591**	**0.4005**	**9.3596**	**2.4321**	**0.3829**	**2.8150**		**42,356.8946**	**42,356.8946**	**3.0308**		**42,432.6649**

3.11 Phase 1B-Building Construction - 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					
Off-Road	1.2572	17.4067	22.2384	0.0329		1.0684	1.0684		1.0684	1.0684	0.0000	3,091.5523	3,091.5523	0.7500		3,110.3021
Total	**1.2572**	**17.4067**	**22.2384**	**0.0329**		**1.0684**	**1.0684**		**1.0684**	**1.0684**	**0.0000**	**3,091.5523**	**3,091.5523**	**0.7500**		**3,110.3021**

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	0.1051	3.5568	0.7865	0.0101	0.7322	0.0111	0.7433	0.1863	0.0106	0.1969		1,084.5820	1,084.5820	0.0574		1,086.0171
Vendor	4.5235	172.7860	35.3279	0.3763	7.0933	0.3823	7.4755	1.9452	0.3657	2.3109		40,265.5520	40,265.5520	2.9506		40,339.3177
Worker	0.4701	0.3203	3.1714	0.0101	1.1336	7.1300e-003	1.1408	0.3007	6.5700e-003	0.3073		1,006.7606	1,006.7606	0.0228		1,007.3301
Total	**5.0987**	**176.6632**	**39.2858**	**0.3966**	**8.9591**	**0.4005**	**9.3596**	**2.4321**	**0.3829**	**2.8150**		**42,356.8946**	**42,356.8946**	**3.0308**		**42,432.6649**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	97.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**97.7266**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

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	0.0954	0.0650	0.6435	2.0500e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3300e-003	0.0623		204.2703	204.2703	4.6200e-003		204.3858
Total	**0.0954**	**0.0650**	**0.6435**	**2.0500e-003**	**0.2300**	**1.4500e-003**	**0.2315**	**0.0610**	**1.3300e-003**	**0.0623**		**204.2703**	**204.2703**	**4.6200e-003**		**204.3858**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	97.4347					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**97.5139**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

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	0.0954	0.0650	0.6435	2.0500e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3300e-003	0.0623		204.2703	204.2703	4.6200e-003		204.3858
Total	**0.0954**	**0.0650**	**0.6435**	**2.0500e-003**	**0.2300**	**1.4500e-003**	**0.2315**	**0.0610**	**1.3300e-003**	**0.0623**		**204.2703**	**204.2703**	**4.6200e-003**		**204.3858**

3.13 Phase 1B-Paving - 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					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	5.7068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.9624**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

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	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
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	0.0545	0.0371	0.3677	1.1700e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		116.7259	116.7259	2.6400e-003		116.7919
Total	**0.0705**	**0.5787**	**0.4875**	**2.7100e-003**	**0.1664**	**2.5200e-003**	**0.1689**	**0.0444**	**2.3800e-003**	**0.0468**		**281.8680**	**281.8680**	**0.0114**		**282.1525**

3.13 Phase 1B-Paving - 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					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	5.7068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**6.2678**	**11.2952**	**17.2957**	**0.0228**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

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	0.0160	0.5416	0.1198	1.5400e-003	0.0349	1.6900e-003	0.0366	9.5800e-003	1.6200e-003	0.0112		165.1421	165.1421	8.7400e-003		165.3606
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	0.0545	0.0371	0.3677	1.1700e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		116.7259	116.7259	2.6400e-003		116.7919
Total	**0.0705**	**0.5787**	**0.4875**	**2.7100e-003**	**0.1664**	**2.5200e-003**	**0.1689**	**0.0444**	**2.3800e-003**	**0.0468**		**281.8680**	**281.8680**	**0.0114**		**282.1525**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	1.2653	6.0357	13.0530	0.0294		0.2065	0.2065		0.2065	0.2065		2,786.5161	2,786.5161	0.1123		2,789.3243
Total	**1.2653**	**6.0357**	**13.0530**	**0.0294**		**0.2065**	**0.2065**		**0.2065**	**0.2065**		**2,786.5161**	**2,786.5161**	**0.1123**		**2,789.3243**

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	0.0201	0.0101	0.1200	5.3000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.3000e-004	0.0221		53.1878	53.1878	6.9000e-004		53.2051
Total	**0.0201**	**0.0101**	**0.1200**	**5.3000e-004**	**0.0822**	**3.5000e-004**	**0.0825**	**0.0218**	**3.3000e-004**	**0.0221**		**53.1878**	**53.1878**	**6.9000e-004**		**53.2051**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.6937	10.6946	15.9958	0.0294		0.4281	0.4281		0.4281	0.4281	0.0000	2,786.5161	2,786.5161	0.1123		2,789.3243
Total	**0.6937**	**10.6946**	**15.9958**	**0.0294**		**0.4281**	**0.4281**		**0.4281**	**0.4281**	**0.0000**	**2,786.5161**	**2,786.5161**	**0.1123**		**2,789.3243**

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	0.0201	0.0101	0.1200	5.3000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.3000e-004	0.0221		53.1878	53.1878	6.9000e-004		53.2051
Total	**0.0201**	**0.0101**	**0.1200**	**5.3000e-004**	**0.0822**	**3.5000e-004**	**0.0825**	**0.0218**	**3.3000e-004**	**0.0221**		**53.1878**	**53.1878**	**6.9000e-004**		**53.2051**

3.15 Phase 2-Grading/Excavation - 2030

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	7.7299	29.8192	41.6794	0.1608		1.0847	1.0847		1.0847	1.0847		17,504.7055	17,504.7055	0.6853		17,521.8380
Total	**7.7299**	**29.8192**	**41.6794**	**0.1608**	**8.6733**	**1.0847**	**9.7581**	**3.5965**	**1.0847**	**4.6812**		**17,504.7055**	**17,504.7055**	**0.6853**		**17,521.8380**

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	0.2970	8.9222	3.3203	0.0432	1.0838	0.0163	1.1001	0.2970	0.0156	0.3127		4,649.5866	4,649.5866	0.2297		4,655.3302
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	0.0723	0.0364	0.4322	1.9200e-003	0.2957	1.2800e-003	0.2970	0.0784	1.1700e-003	0.0796		191.4760	191.4760	2.4900e-003		191.5382
Total	**0.3693**	**8.9586**	**3.7524**	**0.0451**	**1.3795**	**0.0176**	**1.3971**	**0.3755**	**0.0168**	**0.3923**		**4,841.0626**	**4,841.0626**	**0.2322**		**4,846.8684**

3.15 Phase 2-Grading/Excavation - 2030

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6962	71.9922	82.6424	0.1608		2.8677	2.8677		2.8677	2.8677	0.0000	17,504.7055	17,504.7055	0.6853		17,521.8380
Total	**3.6962**	**71.9922**	**82.6424**	**0.1608**	**8.6733**	**2.8677**	**11.5410**	**3.5965**	**2.8677**	**6.4642**	**0.0000**	**17,504.7055**	**17,504.7055**	**0.6853**		**17,521.8380**

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	0.2970	8.9222	3.3203	0.0432	1.0838	0.0163	1.1001	0.2970	0.0156	0.3127		4,649.5866	4,649.5866	0.2297		4,655.3302
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	0.0723	0.0364	0.4322	1.9200e-003	0.2957	1.2800e-003	0.2970	0.0784	1.1700e-003	0.0796		191.4760	191.4760	2.4900e-003		191.5382
Total	**0.3693**	**8.9586**	**3.7524**	**0.0451**	**1.3795**	**0.0176**	**1.3971**	**0.3755**	**0.0168**	**0.3923**		**4,841.0626**	**4,841.0626**	**0.2322**		**4,846.8684**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

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	0.0362	0.0182	0.2161	9.6000e-004	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		95.7380	95.7380	1.2400e-003		95.7691
Total	**0.0362**	**0.0182**	**0.2161**	**9.6000e-004**	**0.1479**	**6.4000e-004**	**0.1485**	**0.0392**	**5.9000e-004**	**0.0398**		**95.7380**	**95.7380**	**1.2400e-003**		**95.7691**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0466		0.9462	0.9462		0.9462	0.9462	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**0.9312**	**19.0656**	**22.9600**	**0.0466**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

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	0.0362	0.0182	0.2161	9.6000e-004	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		95.7380	95.7380	1.2400e-003		95.7691
Total	**0.0362**	**0.0182**	**0.2161**	**9.6000e-004**	**0.1479**	**6.4000e-004**	**0.1485**	**0.0392**	**5.9000e-004**	**0.0398**		**95.7380**	**95.7380**	**1.2400e-003**		**95.7691**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4544	9.0577	19.2955	0.0373		0.1819	0.1819		0.1819	0.1819		3,531.9325	3,531.9325	0.1289		3,535.1557
Total	**1.4544**	**9.0577**	**19.2955**	**0.0373**	**0.0000**	**0.1819**	**0.1819**	**0.0000**	**0.1819**	**0.1819**		**3,531.9325**	**3,531.9325**	**0.1289**		**3,535.1557**

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	0.5940	17.8443	6.6405	0.0863	2.1675	0.0326	2.2001	0.5941	0.0312	0.6253		9,299.1732	9,299.1732	0.4595		9,310.6603
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	0.0482	0.0243	0.2881	1.2800e-003	0.1972	8.5000e-004	0.1980	0.0523	7.8000e-004	0.0531		127.6507	127.6507	1.6600e-003		127.6921
Total	**0.6422**	**17.8686**	**6.9286**	**0.0876**	**2.3647**	**0.0335**	**2.3981**	**0.6464**	**0.0320**	**0.6784**		**9,426.8239**	**9,426.8239**	**0.4612**		**9,438.3525**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7458	16.5327	21.6956	0.0373		1.0704	1.0704		1.0704	1.0704	0.0000	3,531.9325	3,531.9325	0.1289		3,535.1557
Total	**0.7458**	**16.5327**	**21.6956**	**0.0373**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**1.0704**	**1.0704**	**0.0000**	**3,531.9325**	**3,531.9325**	**0.1289**		**3,535.1557**

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	0.5940	17.8443	6.6405	0.0863	2.1675	0.0326	2.2001	0.5941	0.0312	0.6253		9,299.1732	9,299.1732	0.4595		9,310.6603
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	0.0482	0.0243	0.2881	1.2800e-003	0.1972	8.5000e-004	0.1980	0.0523	7.8000e-004	0.0531		127.6507	127.6507	1.6600e-003		127.6921
Total	**0.6422**	**17.8686**	**6.9286**	**0.0876**	**2.3647**	**0.0335**	**2.3981**	**0.6464**	**0.0320**	**0.6784**		**9,426.8239**	**9,426.8239**	**0.4612**		**9,438.3525**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	1.4068	8.4306	17.2058	0.0333		0.1588	0.1588		0.1588	0.1588		3,116.3756	3,116.3756	0.1249		3,119.4980
Total	**1.4068**	**8.4306**	**17.2058**	**0.0333**		**0.1588**	**0.1588**		**0.1588**	**0.1588**		**3,116.3756**	**3,116.3756**	**0.1249**		**3,119.4980**

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	0.0894	2.6849	0.9991	0.0130	0.3261	4.9100e-003	0.3310	0.0894	4.7000e-003	0.0941		1,399.1613	1,399.1613	0.0691		1,400.8897
Vendor	2.6791	107.1544	30.5077	0.3375	7.0969	0.1154	7.2123	1.9465	0.1104	2.0569		36,357.6004	36,357.6004	2.1722		36,411.9051
Worker	0.6108	0.3077	3.6493	0.0162	2.4973	0.0108	2.5081	0.6624	9.9100e-003	0.6723		1,616.9088	1,616.9088	0.0210		1,617.4338
Total	**3.3793**	**110.1470**	**35.1561**	**0.3667**	**9.9203**	**0.1311**	**10.0514**	**2.6983**	**0.1250**	**2.8232**		**39,373.6705**	**39,373.6705**	**2.2623**		**39,430.2286**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.7782	14.7237	19.2408	0.0333		0.8763	0.8763		0.8763	0.8763	0.0000	3,116.3756	3,116.3756	0.1249		3,119.4980
Total	**0.7782**	**14.7237**	**19.2408**	**0.0333**		**0.8763**	**0.8763**		**0.8763**	**0.8763**	**0.0000**	**3,116.3756**	**3,116.3756**	**0.1249**		**3,119.4980**

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	0.0894	2.6849	0.9991	0.0130	0.3261	4.9100e-003	0.3310	0.0894	4.7000e-003	0.0941		1,399.1613	1,399.1613	0.0691		1,400.8897
Vendor	2.6791	107.1544	30.5077	0.3375	7.0969	0.1154	7.2123	1.9465	0.1104	2.0569		36,357.6004	36,357.6004	2.1722		36,411.9051
Worker	0.6108	0.3077	3.6493	0.0162	2.4973	0.0108	2.5081	0.6624	9.9100e-003	0.6723		1,616.9088	1,616.9088	0.0210		1,617.4338
Total	**3.3793**	**110.1470**	**35.1561**	**0.3667**	**9.9203**	**0.1311**	**10.0514**	**2.6983**	**0.1250**	**2.8232**		**39,373.6705**	**39,373.6705**	**2.2623**		**39,430.2286**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	105.1859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1743	1.1417	2.3970	3.9600e-003		0.0271	0.0271		0.0271	0.0271		375.2641	375.2641	0.0152		375.6438
Total	**105.3602**	**1.1417**	**2.3970**	**3.9600e-003**		**0.0271**	**0.0271**		**0.0271**	**0.0271**		**375.2641**	**375.2641**	**0.0152**		**375.6438**

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	0.1246	0.0628	0.7443	3.3000e-003	0.5093	2.2000e-003	0.5115	0.1351	2.0200e-003	0.1371		329.7643	329.7643	4.2800e-003		329.8714
Total	**0.1246**	**0.0628**	**0.7443**	**3.3000e-003**	**0.5093**	**2.2000e-003**	**0.5115**	**0.1351**	**2.0200e-003**	**0.1371**		**329.7643**	**329.7643**	**4.2800e-003**		**329.8714**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	105.1859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0152		375.6438
Total	**105.2651**	**1.8093**	**2.4432**	**3.9600e-003**		**0.1268**	**0.1268**		**0.1268**	**0.1268**	**0.0000**	**375.2641**	**375.2641**	**0.0152**		**375.6438**

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	0.1246	0.0628	0.7443	3.3000e-003	0.5093	2.2000e-003	0.5115	0.1351	2.0200e-003	0.1371		329.7643	329.7643	4.2800e-003		329.8714
Total	**0.1246**	**0.0628**	**0.7443**	**3.3000e-003**	**0.5093**	**2.2000e-003**	**0.5115**	**0.1351**	**2.0200e-003**	**0.1371**		**329.7643**	**329.7643**	**4.2800e-003**		**329.8714**

3.20 Phase 2-Paving - 2030

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					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3738**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.5800e-003	0.2878	0.1071	1.3900e-003	0.0432	5.3000e-004	0.0438	0.0116	5.0000e-004	0.0121		149.9867	149.9867	7.4100e-003		150.1719
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	0.0121	6.0700e-003	0.0720	3.2000e-004	0.0493	2.1000e-004	0.0495	0.0131	2.0000e-004	0.0133		31.9127	31.9127	4.1000e-004		31.9230
Total	**0.0216**	**0.2939**	**0.1791**	**1.7100e-003**	**0.0925**	**7.4000e-004**	**0.0933**	**0.0247**	**7.0000e-004**	**0.0254**		**181.8993**	**181.8993**	**7.8200e-003**		**182.0950**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.5609	11.2952	17.2957	0.0281		0.6093	0.6093		0.6093	0.6093	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.5502**	**11.2952**	**17.2957**	**0.0281**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.5800e-003	0.2878	0.1071	1.3900e-003	0.0432	5.3000e-004	0.0438	0.0116	5.0000e-004	0.0121		149.9867	149.9867	7.4100e-003		150.1719
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	0.0121	6.0700e-003	0.0720	3.2000e-004	0.0493	2.1000e-004	0.0495	0.0131	2.0000e-004	0.0133		31.9127	31.9127	4.1000e-004		31.9230
Total	**0.0216**	**0.2939**	**0.1791**	**1.7100e-003**	**0.0925**	**7.4000e-004**	**0.0933**	**0.0247**	**7.0000e-004**	**0.0254**		**181.8993**	**181.8993**	**7.8200e-003**		**182.0950**

3.20 Phase 2-Paving - 2031

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					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**4.3738**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.5300e-003	0.2843	0.1074	1.3900e-003	0.1196	5.2000e-004	0.1201	0.0304	5.0000e-004	0.0309		149.4582	149.4582	7.3900e-003		149.6429
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	0.0112	5.6000e-003	0.0678	3.1000e-004	0.0493	2.0000e-004	0.0495	0.0131	1.8000e-004	0.0133		31.1871	31.1871	3.8000e-004		31.1966
Total	**0.0207**	**0.2899**	**0.1751**	**1.7000e-003**	**0.1689**	**7.2000e-004**	**0.1696**	**0.0434**	**6.8000e-004**	**0.0441**		**180.6453**	**180.6453**	**7.7700e-003**		**180.8395**

3.20 Phase 2-Paving - 2031

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					
Off-Road	0.5609	11.2952	17.2957	0.0281		0.6093	0.6093		0.6093	0.6093	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	2.9893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.5502**	**11.2952**	**17.2957**	**0.0281**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

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	9.5300e-003	0.2843	0.1074	1.3900e-003	0.1196	5.2000e-004	0.1201	0.0304	5.0000e-004	0.0309		149.4582	149.4582	7.3900e-003		149.6429
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	0.0112	5.6000e-003	0.0678	3.1000e-004	0.0493	2.0000e-004	0.0495	0.0131	1.8000e-004	0.0133		31.1871	31.1871	3.8000e-004		31.1966
Total	**0.0207**	**0.2899**	**0.1751**	**1.7000e-003**	**0.1689**	**7.2000e-004**	**0.1696**	**0.0434**	**6.8000e-004**	**0.0441**		**180.6453**	**180.6453**	**7.7700e-003**		**180.8395**

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	29.5915	130.8808	300.7782	0.7935	65.2203	0.9186	66.1389	17.4523	0.8634	18.3157		80,135.6620	80,135.6620	3.7807		80,230.1791
Unmitigated	29.5915	130.8808	300.7782	0.7935	65.2203	0.9186	66.1389	17.4523	0.8634	18.3157		80,135.6620	80,135.6620	3.7807		80,230.1791

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	8,378.25	7,947.24	3862.09	11,814,384	11,814,384
Total	19,823.12	21,165.33	13,590.90	26,858,912	26,858,912

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Gasoline/Service Station	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Hotel	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Other Non-Asphalt Surfaces	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Parking Lot	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812
Strip Mall	0.573139	0.040894	0.193976	0.114604	0.017740	0.005371	0.017133	0.024527	0.002545	0.002442	0.005942	0.000877	0.000812

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	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740
NaturalGas Unmitigated	0.1986	1.8056	1.5167	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.6984	2,166.6984	0.0415	0.0397	2,179.5740

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					
Discount Club	960.986	0.0104	0.0942	0.0791	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0572	113.0572	2.1700e-003	2.0700e-003	113.7291
Gasoline/Service Station	204.066	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		24.0077	24.0077	4.6000e-004	4.4000e-004	24.1504
Hotel	16024.4	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1227.45	0.0132	0.1203	0.1011	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		144.4054	144.4054	2.7700e-003	2.6500e-003	145.2635
Total		**0.1986**	**1.8056**	**1.5167**	**0.0108**		**0.1372**	**0.1372**		**0.1372**	**0.1372**		**2,166.6983**	**2,166.6983**	**0.0415**	**0.0397**	**2,179.5740**

5.2 Energy by Land Use - NaturalGas

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					
Discount Club	0.960986	0.0104	0.0942	0.0791	5.7000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		113.0572	113.0572	2.1700e-003	2.0700e-003	113.7291
Gasoline/Service Station	0.204066	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003		24.0077	24.0077	4.6000e-004	4.4000e-004	24.1504
Hotel	16.0244	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1.22745	0.0132	0.1203	0.1011	7.2000e-004		9.1500e-003	9.1500e-003		9.1500e-003	9.1500e-003		144.4054	144.4054	2.7700e-003	2.6500e-003	145.2635
Total		**0.1986**	**1.8056**	**1.5167**	**0.0108**		**0.1372**	**0.1372**		**0.1372**	**0.1372**		**2,166.6983**	**2,166.6983**	**0.0415**	**0.0397**	**2,179.5740**

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	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Unmitigated	12.0924	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447

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	1.5044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Total	**12.0924**	**5.9000e-004**	**0.0637**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1356**	**0.1356**	**3.6000e-004**		**0.1447**

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	1.5044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1356	0.1356	3.6000e-004		0.1447
Total	**12.0924**	**5.9000e-004**	**0.0637**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1356**	**0.1356**	**3.6000e-004**		**0.1447**

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

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

Johnson Drive EDZ - Operation (Full Buildout)

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	227.94	1000sqft	5.23	227,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2031
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Matches Project Applicant's model.

Land Use - Matches Project Applicant's model, except input correct Retail (Strip Mall) size and added Industrial land use.

Vehicle Trips - Matches Project Applicant's model.

Consumer Products - Matches Project Applicant's model.

Area Coating - Matches Project Applicant's model.

Energy Use - Matches Project Applicant's Model.

Water And Wastewater - Matches Project Applicant's model.

Fleet Mix - Matches Project Applicant's model as much as possible to sum to 1 (added .00255202 to LDA)

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	82015	60534
tblConsumerProducts	ROG_EF	2.14E-05	6E-06
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	5.25	11.98
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.67
tblEnergyUse	T24E	2.76	6.30
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00

tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20

tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004

tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80

tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	7.99
tblVehicleTrips	ST_TR	42.04	34.94
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	5.95	7.99
tblVehicleTrips	SU_TR	20.43	34.94
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	7.99
tblVehicleTrips	WD_TR	44.32	29.85
tblWater	IndoorWaterUseRate	10,962,733.18	4,000,000.00
tblWater	OutdoorWaterUseRate	6,719,094.53	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4302	4.4704	2.9738	7.3200e-003	0.7659	0.1821	0.9479	0.3299	0.1685	0.4984	0.0000	658.7784	658.7784	0.1284	0.0000	661.9871
2021	0.6862	6.7808	5.4827	0.0220	1.0615	0.1396	1.2011	0.2887	0.1313	0.4200	0.0000	2,037.8711	2,037.8711	0.1404	0.0000	2,041.3799
2022	0.6287	6.2703	5.1889	0.0215	1.0575	0.1183	1.1757	0.2876	0.1113	0.3989	0.0000	1,995.3137	1,995.3137	0.1355	0.0000	1,998.7005
2023	1.9072	3.8754	3.8626	0.0153	0.7506	0.0839	0.8345	0.2040	0.0787	0.2827	0.0000	1,416.7360	1,416.7360	0.1057	0.0000	1,419.3779
2024	1.7477	0.0218	0.0677	2.0000e-004	0.0183	1.0300e-003	0.0193	4.8600e-003	1.0200e-003	5.8700e-003	0.0000	17.5597	17.5597	4.7000e-004	0.0000	17.5713
Maximum	**1.9072**	**6.7808**	**5.4827**	**0.0220**	**1.0615**	**0.1821**	**1.2011**	**0.3299**	**0.1685**	**0.4984**	**0.0000**	**2,037.8711**	**2,037.8711**	**0.1404**	**0.0000**	**2,041.3799**

2.1 Overall Construction

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4302	4.4704	2.9738	7.3200e-003	0.7659	0.1821	0.9479	0.3299	0.1685	0.4984	0.0000	658.7780	658.7780	0.1284	0.0000	661.9867
2021	0.6862	6.7808	5.4827	0.0220	1.0615	0.1396	1.2011	0.2887	0.1313	0.4200	0.0000	2,037.8708	2,037.8708	0.1404	0.0000	2,041.3795
2022	0.6287	6.2703	5.1889	0.0215	1.0575	0.1183	1.1757	0.2876	0.1113	0.3989	0.0000	1,995.3133	1,995.3133	0.1355	0.0000	1,998.7002
2023	1.9072	3.8754	3.8626	0.0153	0.7506	0.0839	0.8345	0.2040	0.0787	0.2827	0.0000	1,416.7357	1,416.7357	0.1057	0.0000	1,419.3776
2024	1.7477	0.0218	0.0677	2.0000e-004	0.0183	1.0300e-003	0.0193	4.8600e-003	1.0200e-003	5.8700e-003	0.0000	17.5597	17.5597	4.7000e-004	0.0000	17.5713
Maximum	**1.9072**	**6.7808**	**5.4827**	**0.0220**	**1.0615**	**0.1821**	**1.2011**	**0.3299**	**0.1685**	**0.4984**	**0.0000**	**2,037.8708**	**2,037.8708**	**0.1404**	**0.0000**	**2,041.3795**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.2715	1.2715
2	**7-6-2020**	**10-5-2020**	1.7439	1.7439
3	**10-6-2020**	**1-5-2021**	1.9797	1.9797
4	**1-6-2021**	**4-5-2021**	1.8499	1.8499
5	**4-6-2021**	**7-5-2021**	1.8452	1.8452
6	**7-6-2021**	**10-5-2021**	1.8669	1.8669

7	**10-6-2021**	**1-5-2022**	1.8851	1.8851
8	**1-6-2022**	**4-5-2022**	1.7155	1.7155
9	**4-6-2022**	**7-5-2022**	1.7120	1.7120
10	**7-6-2022**	**10-5-2022**	1.7321	1.7321
11	**10-6-2022**	**1-5-2023**	1.7388	1.7388
12	**1-6-2023**	**4-5-2023**	1.4250	1.4250
13	**4-6-2023**	**7-5-2023**	1.4232	1.4232
14	**7-6-2023**	**10-5-2023**	1.1365	1.1365
15	**10-6-2023**	**1-5-2024**	1.9947	1.9947
16	**1-6-2024**	**4-5-2024**	1.4755	1.4755
		Highest	1.9947	1.9947

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	0.9014	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0391	0.3558	0.2988	2.1300e-003		0.0270	0.0270		0.0270	0.0270	0.0000	1,179.9065	1,179.9065	0.0907	0.0243	1,189.4237
Mobile	2.6074	6.2958	31.4866	0.1325	17.2009	0.0904	17.2913	4.6090	0.0839	4.6929	0.0000	12,077.0468	12,077.0468	0.2970	0.0000	12,084.4726
Waste						0.0000	0.0000		0.0000	0.0000	216.5244	0.0000	216.5244	12.7962	0.0000	536.4300
Water						0.0000	0.0000		0.0000	0.0000	11.0248	28.8037	39.8285	1.1354	0.0274	76.3672
Total	**3.5479**	**6.6516**	**31.7917**	**0.1346**	**17.2009**	**0.1174**	**17.3183**	**4.6090**	**0.1109**	**4.7200**	**227.5492**	**13,285.7693**	**13,513.3184**	**14.3194**	**0.0517**	**13,886.7066**

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	0.9014	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0391	0.3558	0.2988	2.1300e-003		0.0270	0.0270		0.0270	0.0270	0.0000	1,179.9065	1,179.9065	0.0907	0.0243	1,189.4237
Mobile	2.6074	6.2958	31.4866	0.1325	17.2009	0.0904	17.2913	4.6090	0.0839	4.6929	0.0000	12,077.0468	12,077.0468	0.2970	0.0000	12,084.4726
Waste						0.0000	0.0000		0.0000	0.0000	216.5244	0.0000	216.5244	12.7962	0.0000	536.4300
Water						0.0000	0.0000		0.0000	0.0000	11.0248	28.8037	39.8285	1.1354	0.0274	76.3672
Total	**3.5479**	**6.6516**	**31.7917**	**0.1346**	**17.2009**	**0.1174**	**17.3183**	**4.6090**	**0.1109**	**4.7200**	**227.5492**	**13,285.7693**	**13,513.3184**	**14.3194**	**0.0517**	**13,886.7066**

	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	N20	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	Demolition	Demolition	4/6/2020	6/12/2020	5	50	
2	Site Preparation	Site Preparation	6/13/2020	7/24/2020	5	30	
3	Grading	Grading	7/25/2020	11/6/2020	5	75	
4	Building Construction	Building Construction	11/7/2020	9/8/2023	5	740	
5	Paving	Paving	9/9/2023	11/24/2023	5	55	
6	Architectural Coating	Architectural Coating	11/25/2023	2/9/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,220; Non-Residential Outdoor: 278,407; Striped Parking Area: 82,015 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	768.00	315.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	154.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9965	84.9965	0.0240	0.0000	85.5964
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9965**	**84.9965**	**0.0240**	**0.0000**	**85.5964**

3.2 Demolition - 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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976
Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9964	84.9964	0.0240	0.0000	85.5963
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9964**	**84.9964**	**0.0240**	**0.0000**	**85.5963**

3.2 Demolition - 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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976
Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

3.3 Site Preparation - 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5515
Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5515**

3.3 Site Preparation - 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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5514
Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5514**

3.3 Site Preparation - 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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

3.4 Grading - 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3161	204.3161	0.0661	0.0000	205.9681
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3161**	**204.3161**	**0.0661**	**0.0000**	**205.9681**

3.4 Grading - 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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3159	204.3159	0.0661	0.0000	205.9679
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3159**	**204.3159**	**0.0661**	**0.0000**	**205.9679**

3.4 Grading - 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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

3.5 Building Construction - 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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1640	45.1640	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1640**	**45.1640**	**0.0110**	**0.0000**	**45.4394**

3.5 Building Construction - 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	0.0238	0.7087	0.1782	1.6700e-003	0.0403	3.4600e-003	0.0437	0.0117	3.3100e-003	0.0150	0.0000	160.8226	160.8226	8.2900e-003	0.0000	161.0300
Worker	0.0496	0.0355	0.3678	1.1500e-003	0.1183	8.0000e-004	0.1191	0.0315	7.3000e-004	0.0322	0.0000	103.6760	103.6760	2.5100e-003	0.0000	103.7387
Total	**0.0734**	**0.7442**	**0.5460**	**2.8200e-003**	**0.1586**	**4.2600e-003**	**0.1629**	**0.0431**	**4.0400e-003**	**0.0472**	**0.0000**	**264.4985**	**264.4985**	**0.0108**	**0.0000**	**264.7686**

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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1639	45.1639	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1639**	**45.1639**	**0.0110**	**0.0000**	**45.4394**

3.5 Building Construction - 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	0.0238	0.7087	0.1782	1.6700e-003	0.0403	3.4600e-003	0.0437	0.0117	3.3100e-003	0.0150	0.0000	160.8226	160.8226	8.2900e-003	0.0000	161.0300
Worker	0.0496	0.0355	0.3678	1.1500e-003	0.1183	8.0000e-004	0.1191	0.0315	7.3000e-004	0.0322	0.0000	103.6760	103.6760	2.5100e-003	0.0000	103.7387
Total	**0.0734**	**0.7442**	**0.5460**	**2.8200e-003**	**0.1586**	**4.2600e-003**	**0.1629**	**0.0431**	**4.0400e-003**	**0.0472**	**0.0000**	**264.4985**	**264.4985**	**0.0108**	**0.0000**	**264.7686**

3.5 Building Construction - 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					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

3.5 Building Construction - 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	0.1305	4.2937	1.0717	0.0111	0.2696	9.3400e-003	0.2789	0.0780	8.9300e-003	0.0869	0.0000	1,066.0981	1,066.0981	0.0524	0.0000	1,067.4084
Worker	0.3076	0.2122	2.2479	7.4000e-003	0.7920	5.1800e-003	0.7971	0.2107	4.7700e-003	0.2155	0.0000	669.4863	669.4863	0.0150	0.0000	669.8616
Total	**0.4381**	**4.5059**	**3.3196**	**0.0185**	**1.0615**	**0.0145**	**1.0760**	**0.2887**	**0.0137**	**0.3024**	**0.0000**	**1,735.5845**	**1,735.5845**	**0.0674**	**0.0000**	**1,737.2700**

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					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

3.5 Building Construction - 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	0.1305	4.2937	1.0717	0.0111	0.2696	9.3400e-003	0.2789	0.0780	8.9300e-003	0.0869	0.0000	1,066.0981	1,066.0981	0.0524	0.0000	1,067.4084
Worker	0.3076	0.2122	2.2479	7.4000e-003	0.7920	5.1800e-003	0.7971	0.2107	4.7700e-003	0.2155	0.0000	669.4863	669.4863	0.0150	0.0000	669.8616
Total	**0.4381**	**4.5059**	**3.3196**	**0.0185**	**1.0615**	**0.0145**	**1.0760**	**0.2887**	**0.0137**	**0.3024**	**0.0000**	**1,735.5845**	**1,735.5845**	**0.0674**	**0.0000**	**1,737.2700**

3.5 Building Construction - 2022

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

3.5 Building Construction - 2022

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	0.1213	4.0508	1.0038	0.0109	0.2685	8.0700e-003	0.2766	0.0777	7.7200e-003	0.0854	0.0000	1,051.5999	1,051.5999	0.0499	0.0000	1,052.8473
Worker	0.2856	0.1895	2.0579	7.1000e-003	0.7889	5.0400e-003	0.7940	0.2099	4.6400e-003	0.2145	0.0000	642.4709	642.4709	0.0134	0.0000	642.8062
Total	**0.4069**	**4.2403**	**3.0617**	**0.0180**	**1.0575**	**0.0131**	**1.0706**	**0.2876**	**0.0124**	**0.2999**	**0.0000**	**1,694.0709**	**1,694.0709**	**0.0633**	**0.0000**	**1,695.6535**

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

3.5 Building Construction - 2022

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	0.1213	4.0508	1.0038	0.0109	0.2685	8.0700e-003	0.2766	0.0777	7.7200e-003	0.0854	0.0000	1,051.5999	1,051.5999	0.0499	0.0000	1,052.8473
Worker	0.2856	0.1895	2.0579	7.1000e-003	0.7889	5.0400e-003	0.7940	0.2099	4.6400e-003	0.2145	0.0000	642.4709	642.4709	0.0134	0.0000	642.8062
Total	**0.4069**	**4.2403**	**3.0617**	**0.0180**	**1.0575**	**0.0131**	**1.0706**	**0.2876**	**0.0124**	**0.2999**	**0.0000**	**1,694.0709**	**1,694.0709**	**0.0633**	**0.0000**	**1,695.6535**

3.5 Building Construction - 2023

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6243	208.6243	0.0496	0.0000	209.8650
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6243**	**208.6243**	**0.0496**	**0.0000**	**209.8650**

3.5 Building Construction - 2023

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	0.0630	2.1622	0.6221	7.3500e-003	0.1859	2.4900e-003	0.1884	0.0538	2.3800e-003	0.0562	0.0000	707.6272	707.6272	0.0294	0.0000	708.3632
Worker	0.1849	0.1180	1.3105	4.7300e-003	0.5462	3.4200e-003	0.5496	0.1453	3.1500e-003	0.1485	0.0000	427.7533	427.7533	8.3200e-003	0.0000	427.9614
Total	**0.2479**	**2.2802**	**1.9326**	**0.0121**	**0.7321**	**5.9100e-003**	**0.7380**	**0.1991**	**5.5300e-003**	**0.2046**	**0.0000**	**1,135.3805**	**1,135.3805**	**0.0378**	**0.0000**	**1,136.3246**

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6240	208.6240	0.0496	0.0000	209.8647
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6240**	**208.6240**	**0.0496**	**0.0000**	**209.8647**

3.5 Building Construction - 2023

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	0.0630	2.1622	0.6221	7.3500e-003	0.1859	2.4900e-003	0.1884	0.0538	2.3800e-003	0.0562	0.0000	707.6272	707.6272	0.0294	0.0000	708.3632
Worker	0.1849	0.1180	1.3105	4.7300e-003	0.5462	3.4200e-003	0.5496	0.1453	3.1500e-003	0.1485	0.0000	427.7533	427.7533	8.3200e-003	0.0000	427.9614
Total	**0.2479**	**2.2802**	**1.9326**	**0.0121**	**0.7321**	**5.9100e-003**	**0.7380**	**0.1991**	**5.5300e-003**	**0.2046**	**0.0000**	**1,135.3805**	**1,135.3805**	**0.0378**	**0.0000**	**1,136.3246**

3.6 Paving - 2023

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					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0739**	**55.0739**	**0.0178**	**0.0000**	**55.5192**

3.6 Paving - 2023

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

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					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0738**	**55.0738**	**0.0178**	**0.0000**	**55.5191**

3.6 Paving - 2023

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

3.7 Architectural Coating - 2023

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					
Archit. Coating	1.4493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4517**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

3.7 Architectural Coating - 2023

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	5.1500e-003	3.2900e-003	0.0365	1.3000e-004	0.0152	1.0000e-004	0.0153	4.0500e-003	9.0000e-005	4.1300e-003	0.0000	11.9130	11.9130	2.3000e-004	0.0000	11.9188
Total	**5.1500e-003**	**3.2900e-003**	**0.0365**	**1.3000e-004**	**0.0152**	**1.0000e-004**	**0.0153**	**4.0500e-003**	**9.0000e-005**	**4.1300e-003**	**0.0000**	**11.9130**	**11.9130**	**2.3000e-004**	**0.0000**	**11.9188**

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					
Archit. Coating	1.4493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4517**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

3.7 Architectural Coating - 2023

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	5.1500e-003	3.2900e-003	0.0365	1.3000e-004	0.0152	1.0000e-004	0.0153	4.0500e-003	9.0000e-005	4.1300e-003	0.0000	11.9130	11.9130	2.3000e-004	0.0000	11.9188
Total	**5.1500e-003**	**3.2900e-003**	**0.0365**	**1.3000e-004**	**0.0152**	**1.0000e-004**	**0.0153**	**4.0500e-003**	**9.0000e-005**	**4.1300e-003**	**0.0000**	**11.9130**	**11.9130**	**2.3000e-004**	**0.0000**	**11.9188**

3.7 Architectural Coating - 2024

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					
Archit. Coating	1.7392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.7419**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

3.7 Architectural Coating - 2024

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	5.8100e-003	3.5600e-003	0.0406	1.5000e-004	0.0183	1.1000e-004	0.0184	4.8600e-003	1.0000e-004	4.9600e-003	0.0000	13.7298	13.7298	2.5000e-004	0.0000	13.7361
Total	**5.8100e-003**	**3.5600e-003**	**0.0406**	**1.5000e-004**	**0.0183**	**1.1000e-004**	**0.0184**	**4.8600e-003**	**1.0000e-004**	**4.9600e-003**	**0.0000**	**13.7298**	**13.7298**	**2.5000e-004**	**0.0000**	**13.7361**

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					
Archit. Coating	1.7392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.7419**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

3.7 Architectural Coating - 2024

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	5.8100e-003	3.5600e-003	0.0406	1.5000e-004	0.0183	1.1000e-004	0.0184	4.8600e-003	1.0000e-004	4.9600e-003	0.0000	13.7298	13.7298	2.5000e-004	0.0000	13.7361
Total	**5.8100e-003**	**3.5600e-003**	**0.0406**	**1.5000e-004**	**0.0183**	**1.1000e-004**	**0.0184**	**4.8600e-003**	**1.0000e-004**	**4.9600e-003**	**0.0000**	**13.7298**	**13.7298**	**2.5000e-004**	**0.0000**	**13.7361**

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	tons/yr										MT/yr					
Mitigated	2.6074	6.2958	31.4866	0.1325	17.2009	0.0904	17.2913	4.6090	0.0839	4.6929	0.0000	12,077.0468	12,077.0468	0.2970	0.0000	12,084.4726
Unmitigated	2.6074	6.2958	31.4866	0.1325	17.2009	0.0904	17.2913	4.6090	0.0839	4.6929	0.0000	12,077.0468	12,077.0468	0.2970	0.0000	12,084.4726

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	192.02	36.37	18.73	423,420	423,420
Hotel	1,845.69	1,845.69	1845.69	5,191,105	5,191,105
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	6,804.01	7,964.22	7964.22	19,908,989	19,908,989
Total	15,802.16	18,696.68	18,679.05	46,456,712	46,456,712

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
General Light Industry	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	792.6162	792.6162	0.0833	0.0172	799.8320
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	792.6162	792.6162	0.0833	0.0172	799.8320
NaturalGas Mitigated	0.0391	0.3558	0.2988	2.1300e-003		0.0270	0.0270		0.0270	0.0270	0.0000	387.2903	387.2903	7.4200e-003	7.1000e-003	389.5918
NaturalGas Unmitigated	0.0391	0.3558	0.2988	2.1300e-003		0.0270	0.0270		0.0270	0.0270	0.0000	387.2903	387.2903	7.4200e-003	7.1000e-003	389.5918

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					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	378380	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.1918	20.1918	3.9000e-004	3.7000e-004	20.3118
Total		**0.0391**	**0.3558**	**0.2989**	**2.1300e-003**		**0.0271**	**0.0271**		**0.0271**	**0.0271**	**0.0000**	**387.2903**	**387.2903**	**7.4200e-003**	**7.1000e-003**	**389.5918**

5.2 Energy by Land Use - NaturalGas

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	tons/yr										MT/yr					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	378380	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.1918	20.1918	3.9000e-004	3.7000e-004	20.3118
Total		**0.0391**	**0.3558**	**0.2989**	**2.1300e-003**		**0.0271**	**0.0271**		**0.0271**	**0.0271**	**0.0000**	**387.2903**	**387.2903**	**7.4200e-003**	**7.1000e-003**	**389.5918**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	3.10208e+006	388.4103	0.0408	8.4400e-003	391.9463
Gasoline/Service Station	19482.2	2.4394	2.6000e-004	5.0000e-005	2.4616
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	832920	104.2896	0.0110	2.2700e-003	105.2390
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.0444	1.4800e-003	3.1000e-004	14.1723
Parking Lot	114345	14.3171	1.5000e-003	3.1000e-004	14.4474
Parking Lot	34412.4	4.3088	4.5000e-004	9.0000e-005	4.3480
Strip Mall	1.88734e+006	236.3136	0.0248	5.1400e-003	238.4649
Total		**792.6162**	**0.0833**	**0.0172**	**799.8320**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	3.10208e+006	388.4103	0.0408	8.4400e-003	391.9463
Gasoline/Service Station	19482.2	2.4394	2.6000e-004	5.0000e-005	2.4616
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	832920	104.2896	0.0110	2.2700e-003	105.2390
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.0444	1.4800e-003	3.1000e-004	14.1723
Parking Lot	114345	14.3171	1.5000e-003	3.1000e-004	14.4474
Parking Lot	34412.4	4.3088	4.5000e-004	9.0000e-005	4.3480
Strip Mall	1.88734e+006	236.3136	0.0248	5.1400e-003	238.4649
Total		**792.6162**	**0.0833**	**0.0172**	**799.8320**

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	0.9014	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Unmitigated	0.9014	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

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	0.3114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**0.9014**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

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	0.3114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**0.9014**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	39.8285	1.1354	0.0274	76.3672
Unmitigated	39.8285	1.1354	0.0274	76.3672

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	4 / 0	3.9791	0.1306	3.1400e-003	8.1794
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	18.2544 / 11.1882	23.0619	0.5966	0.0144	42.2751
Total		**39.8285**	**1.1354**	**0.0274**	**76.3672**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	4 / 0	3.9791	0.1306	3.1400e-003	8.1794
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	18.2544 / 11.1882	23.0619	0.5966	0.0144	42.2751
Total		**39.8285**	**1.1354**	**0.0274**	**76.3672**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	216.5244	12.7962	0.0000	536.4300
Unmitigated	216.5244	12.7962	0.0000	536.4300

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	258.76	52.5259	3.1042	0.0000	130.1308
Total		**216.5244**	**12.7962**	**0.0000**	**536.4300**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	258.76	52.5259	3.1042	0.0000	130.1308
Total		**216.5244**	**12.7962**	**0.0000**	**536.4300**

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

Johnson Drive EDZ - Operation (Full Buildout)

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	227.94	1000sqft	5.23	227,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2031
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Matches Project Applicant's model.

Land Use - Matches Project Applicant's model, except input correct Retail (Strip Mall) size and added Industrial land use.

Vehicle Trips - Matches Project Applicant's model.

Consumer Products - Matches Project Applicant's model.

Area Coating - Matches Project Applicant's model.

Energy Use - Matches Project Applicant's Model.

Water And Wastewater - Matches Project Applicant's model.

Fleet Mix - Matches Project Applicant's model as much as possible to sum to 1 (added .00255202 to LDA)

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	82015	60534
tblConsumerProducts	ROG_EF	2.14E-05	6E-06
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	5.25	11.98
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.67
tblEnergyUse	T24E	2.76	6.30
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00

tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20

tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004

tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80

tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	7.99
tblVehicleTrips	ST_TR	42.04	34.94
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	5.95	7.99
tblVehicleTrips	SU_TR	20.43	34.94
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	7.99
tblVehicleTrips	WD_TR	44.32	29.85
tblWater	IndoorWaterUseRate	10,962,733.18	4,000,000.00
tblWater	OutdoorWaterUseRate	6,719,094.53	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2020	5.9834	56.7003	46.0173	0.1769	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	18,045.4306	18,045.4306	1.9464	0.0000	18,076.1119
2021	5.3472	51.4277	43.1159	0.1738	8.4412	1.0688	9.5100	2.2872	1.0053	3.2925	0.0000	17,737.8071	17,737.8071	1.1792	0.0000	17,767.2866
2022	4.9158	47.7612	40.9652	0.1707	8.4413	0.9089	9.3502	2.2873	0.8553	3.1426	0.0000	17,426.9218	17,426.9218	1.1425	0.0000	17,455.4844
2023	116.5688	39.3906	38.7748	0.1660	8.4414	0.7648	9.2062	2.2873	0.7193	3.0066	0.0000	16,949.6223	16,949.6223	1.0666	0.0000	16,976.2868
2024	116.5313	1.4297	4.7940	0.0139	1.2651	0.0684	1.3335	0.3356	0.0678	0.4034	0.0000	1,366.5073	1,366.5073	0.0357	0.0000	1,367.3991
Maximum	**116.5688**	**56.7003**	**46.0173**	**0.1769**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**18,045.4306**	**18,045.4306**	**1.9464**	**0.0000**	**18,076.1119**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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
Year	lb/day										lb/day					
2020	5.9834	56.7003	46.0173	0.1769	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	18,045.4306	18,045.4306	1.9464	0.0000	18,076.1119
2021	5.3472	51.4277	43.1159	0.1738	8.4412	1.0688	9.5100	2.2872	1.0053	3.2925	0.0000	17,737.8071	17,737.8071	1.1792	0.0000	17,767.2866
2022	4.9158	47.7612	40.9652	0.1707	8.4413	0.9089	9.3502	2.2873	0.8553	3.1426	0.0000	17,426.9218	17,426.9218	1.1425	0.0000	17,455.4844
2023	116.5688	39.3906	38.7748	0.1660	8.4414	0.7648	9.2062	2.2873	0.7193	3.0066	0.0000	16,949.6223	16,949.6223	1.0666	0.0000	16,976.2868
2024	116.5313	1.4297	4.7940	0.0139	1.2651	0.0684	1.3335	0.3356	0.0678	0.4034	0.0000	1,366.5073	1,366.5073	0.0357	0.0000	1,367.3991
Maximum	**116.5688**	**56.7003**	**46.0173**	**0.1769**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**18,045.4306**	**18,045.4306**	**1.9464**	**0.0000**	**18,076.1119**

	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	N20	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**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Energy	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
Mobile	18.8430	37.1579	208.5230	0.8779	111.3518	0.5635	111.9153	29.7425	0.5232	30.2657		88,216.9545	88,216.9545	2.0723		88,268.7614
Total	**23.9999**	**39.1079**	**210.2302**	**0.8897**	**111.3518**	**0.7119**	**112.0637**	**29.7425**	**0.6716**	**30.4141**		**90,556.3621**	**90,556.3621**	**2.1175**	**0.0429**	**90,622.0798**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Energy	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
Mobile	18.8430	37.1579	208.5230	0.8779	111.3518	0.5635	111.9153	29.7425	0.5232	30.2657		88,216.9545	88,216.9545	2.0723		88,268.7614
Total	**23.9999**	**39.1079**	**210.2302**	**0.8897**	**111.3518**	**0.7119**	**112.0637**	**29.7425**	**0.6716**	**30.4141**		**90,556.3621**	**90,556.3621**	**2.1175**	**0.0429**	**90,622.0798**

	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	N20	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	Demolition	Demolition	4/6/2020	6/12/2020	5	50	
2	Site Preparation	Site Preparation	6/13/2020	7/24/2020	5	30	
3	Grading	Grading	7/25/2020	11/6/2020	5	75	
4	Building Construction	Building Construction	11/7/2020	9/8/2023	5	740	
5	Paving	Paving	9/9/2023	11/24/2023	5	55	
6	Architectural Coating	Architectural Coating	11/25/2023	2/9/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,220; Non-Residential Outdoor: 278,407; Striped Parking Area: 82,015 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	768.00	315.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	154.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 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	0.0521	0.0316	0.4025	1.2400e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		123.1165	123.1165	2.9700e-003		123.1907
Total	**0.0521**	**0.0316**	**0.4025**	**1.2400e-003**	**0.1232**	**8.0000e-004**	**0.1240**	**0.0327**	**7.4000e-004**	**0.0334**		**123.1165**	**123.1165**	**2.9700e-003**		**123.1907**

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					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 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	0.0521	0.0316	0.4025	1.2400e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		123.1165	123.1165	2.9700e-003		123.1907
Total	**0.0521**	**0.0316**	**0.4025**	**1.2400e-003**	**0.1232**	**8.0000e-004**	**0.1240**	**0.0327**	**7.4000e-004**	**0.0334**		**123.1165**	**123.1165**	**2.9700e-003**		**123.1907**

3.3 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.0626**	**0.0379**	**0.4830**	**1.4800e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**147.7398**	**147.7398**	**3.5600e-003**		**147.8288**

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 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	0.0626	0.0379	0.4830	1.4800e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		147.7398	147.7398	3.5600e-003		147.8288
Total	**0.0626**	**0.0379**	**0.4830**	**1.4800e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**147.7398**	**147.7398**	**3.5600e-003**		**147.8288**

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 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	0.0695	0.0421	0.5366	1.6500e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		164.1553	164.1553	3.9600e-003		164.2542
Total	**0.0695**	**0.0421**	**0.5366**	**1.6500e-003**	**0.1643**	**1.0600e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**164.1553**	**164.1553**	**3.9600e-003**		**164.2542**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 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	0.0695	0.0421	0.5366	1.6500e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		164.1553	164.1553	3.9600e-003		164.2542
Total	**0.0695**	**0.0421**	**0.5366**	**1.6500e-003**	**0.1643**	**1.0600e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**164.1553**	**164.1553**	**3.9600e-003**		**164.2542**

3.5 Building Construction - 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					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 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	1.1942	35.8982	8.5631	0.0868	2.1322	0.1760	2.3082	0.6138	0.1683	0.7821		9,188.8036	9,188.8036	0.4525		9,200.1161
Worker	2.6694	1.6161	20.6058	0.0633	6.3089	0.0409	6.3498	1.6734	0.0376	1.7111		6,303.5640	6,303.5640	0.1519		6,307.3613
Total	**3.8636**	**37.5143**	**29.1688**	**0.1500**	**8.4411**	**0.2168**	**8.6580**	**2.2872**	**0.2060**	**2.4932**		**15,492.3675**	**15,492.3675**	**0.6044**		**15,507.4775**

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					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 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	1.1942	35.8982	8.5631	0.0868	2.1322	0.1760	2.3082	0.6138	0.1683	0.7821		9,188.8036	9,188.8036	0.4525		9,200.1161
Worker	2.6694	1.6161	20.6058	0.0633	6.3089	0.0409	6.3498	1.6734	0.0376	1.7111		6,303.5640	6,303.5640	0.1519		6,307.3613
Total	**3.8636**	**37.5143**	**29.1688**	**0.1500**	**8.4411**	**0.2168**	**8.6580**	**2.2872**	**0.2060**	**2.4932**		**15,492.3675**	**15,492.3675**	**0.6044**		**15,507.4775**

3.5 Building Construction - 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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 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	0.9769	32.5524	7.6761	0.0859	2.1323	0.0705	2.2028	0.6138	0.0675	0.6813		9,102.1941	9,102.1941	0.4272		9,112.8742
Worker	2.4694	1.4432	18.8645	0.0610	6.3089	0.0397	6.3486	1.6734	0.0366	1.7100		6,082.2491	6,082.2491	0.1360		6,085.6482
Total	**3.4463**	**33.9956**	**26.5407**	**0.1469**	**8.4412**	**0.1102**	**8.5514**	**2.2872**	**0.1040**	**2.3912**		**15,184.4432**	**15,184.4432**	**0.5632**		**15,198.5223**

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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 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	0.9769	32.5524	7.6761	0.0859	2.1323	0.0705	2.2028	0.6138	0.0675	0.6813		9,102.1941	9,102.1941	0.4272		9,112.8742
Worker	2.4694	1.4432	18.8645	0.0610	6.3089	0.0397	6.3486	1.6734	0.0366	1.7100		6,082.2491	6,082.2491	0.1360		6,085.6482
Total	**3.4463**	**33.9956**	**26.5407**	**0.1469**	**8.4412**	**0.1102**	**8.5514**	**2.2872**	**0.1040**	**2.3912**		**15,184.4432**	**15,184.4432**	**0.5632**		**15,198.5223**

3.5 Building Construction - 2022

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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

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	0.9111	30.8512	7.2192	0.0850	2.1323	0.0611	2.1935	0.6138	0.0585	0.6723		9,013.5518	9,013.5518	0.4085		9,023.7634
Worker	2.2984	1.2944	17.3826	0.0588	6.3089	0.0388	6.3477	1.6734	0.0357	1.7091		5,859.0364	5,859.0364	0.1221		5,862.0888
Total	**3.2096**	**32.1456**	**24.6018**	**0.1438**	**8.4413**	**0.0999**	**8.5412**	**2.2873**	**0.0942**	**2.3814**		**14,872.5882**	**14,872.5882**	**0.5306**		**14,885.8522**

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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

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	0.9111	30.8512	7.2192	0.0850	2.1323	0.0611	2.1935	0.6138	0.0585	0.6723		9,013.5518	9,013.5518	0.4085		9,023.7634
Worker	2.2984	1.2944	17.3826	0.0588	6.3089	0.0388	6.3477	1.6734	0.0357	1.7091		5,859.0364	5,859.0364	0.1221		5,862.0888
Total	**3.2096**	**32.1456**	**24.6018**	**0.1438**	**8.4413**	**0.0999**	**8.5412**	**2.2873**	**0.0942**	**2.3814**		**14,872.5882**	**14,872.5882**	**0.5306**		**14,885.8522**

3.5 Building Construction - 2023

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					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

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	0.6828	23.8415	6.4992	0.0826	2.1324	0.0271	2.1595	0.6139	0.0259	0.6398		8,759.9898	8,759.9898	0.3491		8,768.7175
Worker	2.1457	1.1642	16.0316	0.0565	6.3089	0.0380	6.3469	1.6734	0.0350	1.7084		5,634.4225	5,634.4225	0.1096		5,637.1633
Total	**2.8285**	**25.0057**	**22.5308**	**0.1390**	**8.4414**	**0.0651**	**8.5065**	**2.2873**	**0.0609**	**2.3482**		**14,394.4123**	**14,394.4123**	**0.4587**		**14,405.8808**

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					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

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	0.6828	23.8415	6.4992	0.0826	2.1324	0.0271	2.1595	0.6139	0.0259	0.6398		8,759.9898	8,759.9898	0.3491		8,768.7175
Worker	2.1457	1.1642	16.0316	0.0565	6.3089	0.0380	6.3469	1.6734	0.0350	1.7084		5,634.4225	5,634.4225	0.1096		5,637.1633
Total	**2.8285**	**25.0057**	**22.5308**	**0.1390**	**8.4414**	**0.0651**	**8.5065**	**2.2873**	**0.0609**	**2.3482**		**14,394.4123**	**14,394.4123**	**0.4587**		**14,405.8808**

3.6 Paving - 2023

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					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1741**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

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	0.0419	0.0227	0.3131	1.1000e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		110.0473	110.0473	2.1400e-003		110.1009
Total	**0.0419**	**0.0227**	**0.3131**	**1.1000e-003**	**0.1232**	**7.4000e-004**	**0.1240**	**0.0327**	**6.8000e-004**	**0.0334**		**110.0473**	**110.0473**	**2.1400e-003**		**110.1009**

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					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1741**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

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	0.0419	0.0227	0.3131	1.1000e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		110.0473	110.0473	2.1400e-003		110.1009
Total	**0.0419**	**0.0227**	**0.3131**	**1.1000e-003**	**0.1232**	**7.4000e-004**	**0.1240**	**0.0327**	**6.8000e-004**	**0.0334**		**110.0473**	**110.0473**	**2.1400e-003**		**110.1009**

3.7 Architectural Coating - 2023

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**116.1385**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

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	0.4303	0.2334	3.2147	0.0113	1.2651	7.6100e-003	1.2727	0.3356	7.0100e-003	0.3426		1,129.8191	1,129.8191	0.0220		1,130.3687
Total	**0.4303**	**0.2334**	**3.2147**	**0.0113**	**1.2651**	**7.6100e-003**	**1.2727**	**0.3356**	**7.0100e-003**	**0.3426**		**1,129.8191**	**1,129.8191**	**0.0220**		**1,130.3687**

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**116.1385**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

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	0.4303	0.2334	3.2147	0.0113	1.2651	7.6100e-003	1.2727	0.3356	7.0100e-003	0.3426		1,129.8191	1,129.8191	0.0220		1,130.3687
Total	**0.4303**	**0.2334**	**3.2147**	**0.0113**	**1.2651**	**7.6100e-003**	**1.2727**	**0.3356**	**7.0100e-003**	**0.3426**		**1,129.8191**	**1,129.8191**	**0.0220**		**1,130.3687**

3.7 Architectural Coating - 2024

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**116.1276**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

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	0.4036	0.2109	2.9839	0.0109	1.2651	7.4700e-003	1.2725	0.3356	6.8800e-003	0.3424		1,085.0593	1,085.0593	0.0198		1,085.5549
Total	**0.4036**	**0.2109**	**2.9839**	**0.0109**	**1.2651**	**7.4700e-003**	**1.2725**	**0.3356**	**6.8800e-003**	**0.3424**		**1,085.0593**	**1,085.0593**	**0.0198**		**1,085.5549**

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**116.1276**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

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	0.4036	0.2109	2.9839	0.0109	1.2651	7.4700e-003	1.2725	0.3356	6.8800e-003	0.3424		1,085.0593	1,085.0593	0.0198		1,085.5549
Total	**0.4036**	**0.2109**	**2.9839**	**0.0109**	**1.2651**	**7.4700e-003**	**1.2725**	**0.3356**	**6.8800e-003**	**0.3424**		**1,085.0593**	**1,085.0593**	**0.0198**		**1,085.5549**

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	18.8430	37.1579	208.5230	0.8779	111.3518	0.5635	111.9153	29.7425	0.5232	30.2657		88,216.9545	88,216.9545	2.0723		88,268.7614
Unmitigated	18.8430	37.1579	208.5230	0.8779	111.3518	0.5635	111.9153	29.7425	0.5232	30.2657		88,216.9545	88,216.9545	2.0723		88,268.7614

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	192.02	36.37	18.73	423,420	423,420
Hotel	1,845.69	1,845.69	1845.69	5,191,105	5,191,105
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	6,804.01	7,964.22	7964.22	19,908,989	19,908,989
Total	15,802.16	18,696.68	18,679.05	46,456,712	46,456,712

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
General Light Industry	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
NaturalGas Unmitigated	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586

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					
Discount Club	673.096	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.1878	79.1878	1.5200e-003	1.4500e-003	79.6583
Gasoline/Service Station	158.348	1.7100e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6292	18.6292	3.6000e-004	3.4000e-004	18.7399
General Light Industry	1991.15	0.0215	0.1952	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.2527	234.2527	4.4900e-003	4.2900e-003	235.6448
Hotel	16024.4	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1036.66	0.0112	0.1016	0.0854	6.1000e-004		7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003		121.9598	121.9598	2.3400e-003	2.2400e-003	122.6846
Total		**0.2144**	**1.9494**	**1.6375**	**0.0117**		**0.1482**	**0.1482**		**0.1482**	**0.1482**		**2,339.2575**	**2,339.2575**	**0.0448**	**0.0429**	**2,353.1586**

5.2 Energy by Land Use - NaturalGas

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					
Discount Club	0.673096	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.1878	79.1878	1.5200e-003	1.4500e-003	79.6583
Gasoline/Service Station	0.158348	1.7100e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6292	18.6292	3.6000e-004	3.4000e-004	18.7399
General Light Industry	1.99115	0.0215	0.1952	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.2527	234.2527	4.4900e-003	4.2900e-003	235.6448
Hotel	16.0244	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1.03666	0.0112	0.1016	0.0854	6.1000e-004		7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003		121.9598	121.9598	2.3400e-003	2.2400e-003	122.6846
Total		**0.2144**	**1.9494**	**1.6375**	**0.0117**		**0.1482**	**0.1482**		**0.1482**	**0.1482**		**2,339.2575**	**2,339.2575**	**0.0448**	**0.0429**	**2,353.1586**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Unmitigated	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598

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	1.7062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3700e-003	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Total	**4.9425**	**6.3000e-004**	**0.0697**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1501**	**0.1501**	**3.9000e-004**		**0.1598**

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	1.7062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3700e-003	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Total	**4.9425**	**6.3000e-004**	**0.0697**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1501**	**0.1501**	**3.9000e-004**		**0.1598**

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

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

Johnson Drive EDZ - Operation (Full Buildout)

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	227.94	1000sqft	5.23	227,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2031
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Johnson Drive EDZ - Operation (Full Buildout) - Bay Area AQMD Air District, Winter

Project Characteristics - Matches Project Applicant's model.

Land Use - Matches Project Applicant's model, except input correct Retail (Strip Mall) size and added Industrial land use.

Vehicle Trips - Matches Project Applicant's model.

Consumer Products - Matches Project Applicant's model.

Area Coating - Matches Project Applicant's model.

Energy Use - Matches Project Applicant's Model.

Water And Wastewater - Matches Project Applicant's model.

Fleet Mix - Matches Project Applicant's model as much as possible to sum to 1 (added .00255202 to LDA)

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	82015	60534
tblConsumerProducts	ROG_EF	2.14E-05	6E-06
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	5.25	11.98
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.67
tblEnergyUse	T24E	2.76	6.30
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00

Johnson Drive EDZ - Operation (Full Buildout) - Bay Area AQMD Air District, Winter

tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20

tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	LHD2	5.2750e-003	5.4310e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MCY	5.6080e-003	5.7730e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MH	6.7200e-004	6.9200e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	OBUS	2.7080e-003	2.7880e-003
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004

tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	SBUS	9.2400e-004	9.5100e-004
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80

tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	7.99
tblVehicleTrips	ST_TR	42.04	34.94
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	5.95	7.99
tblVehicleTrips	SU_TR	20.43	34.94
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	7.99
tblVehicleTrips	WD_TR	44.32	29.85
tblWater	IndoorWaterUseRate	10,962,733.18	4,000,000.00
tblWater	OutdoorWaterUseRate	6,719,094.53	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2020	6.2000	57.4825	45.9974	0.1698	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	17,315.9535	17,315.9535	1.9461	0.0000	17,347.3117
2021	5.5517	52.0471	43.0477	0.1669	8.4412	1.0713	9.5125	2.2872	1.0076	3.2949	0.0000	17,027.4604	17,027.4604	1.2050	0.0000	17,057.5848
2022	5.1129	48.2979	40.8535	0.1639	8.4413	0.9111	9.3524	2.2873	0.8575	3.1447	0.0000	16,735.2018	16,735.2018	1.1670	0.0000	16,764.3757
2023	116.5972	39.7795	38.4838	0.1595	8.4414	0.7660	9.2074	2.2873	0.7205	3.0078	0.0000	16,284.5343	16,284.5343	1.0842	0.0000	16,311.6401
2024	116.5596	1.4790	4.5698	0.0130	1.2651	0.0684	1.3335	0.3356	0.0678	0.4034	0.0000	1,281.1085	1,281.1085	0.0342	0.0000	1,281.9625
Maximum	**116.5972**	**57.4825**	**45.9974**	**0.1698**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**17,315.9535**	**17,315.9535**	**1.9461**	**0.0000**	**17,347.3117**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	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
Year	lb/day										lb/day					
2020	6.2000	57.4825	45.9974	0.1698	18.2141	2.1984	20.4125	9.9699	2.0225	11.9924	0.0000	17,315.9535	17,315.9535	1.9461	0.0000	17,347.3116
2021	5.5517	52.0471	43.0477	0.1669	8.4412	1.0713	9.5125	2.2872	1.0076	3.2949	0.0000	17,027.4604	17,027.4604	1.2050	0.0000	17,057.5848
2022	5.1129	48.2979	40.8535	0.1639	8.4413	0.9111	9.3524	2.2873	0.8575	3.1447	0.0000	16,735.2018	16,735.2018	1.1670	0.0000	16,764.3757
2023	116.5972	39.7795	38.4838	0.1595	8.4414	0.7660	9.2074	2.2873	0.7205	3.0078	0.0000	16,284.5343	16,284.5343	1.0842	0.0000	16,311.6401
2024	116.5596	1.4790	4.5698	0.0130	1.2651	0.0684	1.3335	0.3356	0.0678	0.4034	0.0000	1,281.1085	1,281.1085	0.0342	0.0000	1,281.9625
Maximum	**116.5972**	**57.4825**	**45.9974**	**0.1698**	**18.2141**	**2.1984**	**20.4125**	**9.9699**	**2.0225**	**11.9924**	**0.0000**	**17,315.9535**	**17,315.9535**	**1.9461**	**0.0000**	**17,347.3116**

	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	N20	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**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Energy	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
Mobile	15.9797	40.7736	203.2184	0.8197	111.3518	0.5636	111.9154	29.7425	0.5232	30.2657		82,381.3220	82,381.3220	2.0743		82,433.1791
Total	**21.1366**	**42.7236**	**204.9255**	**0.8315**	**111.3518**	**0.7120**	**112.0638**	**29.7425**	**0.6716**	**30.4141**		**84,720.7296**	**84,720.7296**	**2.1195**	**0.0429**	**84,786.4974**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Energy	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
Mobile	15.9797	40.7736	203.2184	0.8197	111.3518	0.5636	111.9154	29.7425	0.5232	30.2657		82,381.3220	82,381.3220	2.0743		82,433.1791
Total	**21.1366**	**42.7236**	**204.9255**	**0.8315**	**111.3518**	**0.7120**	**112.0638**	**29.7425**	**0.6716**	**30.4141**		**84,720.7296**	**84,720.7296**	**2.1195**	**0.0429**	**84,786.4974**

	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	N20	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	Demolition	Demolition	4/6/2020	6/12/2020	5	50	
2	Site Preparation	Site Preparation	6/13/2020	7/24/2020	5	30	
3	Grading	Grading	7/25/2020	11/6/2020	5	75	
4	Building Construction	Building Construction	11/7/2020	9/8/2023	5	740	
5	Paving	Paving	9/9/2023	11/24/2023	5	55	
6	Architectural Coating	Architectural Coating	11/25/2023	2/9/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 835,220; Non-Residential Outdoor: 278,407; Striped Parking Area: 82,015 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	768.00	315.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	154.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 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	0.0552	0.0390	0.3780	1.1400e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		113.4098	113.4098	2.7700e-003		113.4792
Total	**0.0552**	**0.0390**	**0.3780**	**1.1400e-003**	**0.1232**	**8.0000e-004**	**0.1240**	**0.0327**	**7.4000e-004**	**0.0334**		**113.4098**	**113.4098**	**2.7700e-003**		**113.4792**

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					
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**		**1.6587**	**1.6587**		**1.5419**	**1.5419**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 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	0.0552	0.0390	0.3780	1.1400e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		113.4098	113.4098	2.7700e-003		113.4792
Total	**0.0552**	**0.0390**	**0.3780**	**1.1400e-003**	**0.1232**	**8.0000e-004**	**0.1240**	**0.0327**	**7.4000e-004**	**0.0334**		**113.4098**	**113.4098**	**2.7700e-003**		**113.4792**

3.3 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.0662**	**0.0468**	**0.4536**	**1.3700e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**136.0918**	**136.0918**	**3.3300e-003**		**136.1750**

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 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	0.0662	0.0468	0.4536	1.3700e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		136.0918	136.0918	3.3300e-003		136.1750
Total	**0.0662**	**0.0468**	**0.4536**	**1.3700e-003**	**0.1479**	**9.6000e-004**	**0.1488**	**0.0392**	**8.8000e-004**	**0.0401**		**136.0918**	**136.0918**	**3.3300e-003**		**136.1750**

3.4 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 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	0.0735	0.0520	0.5040	1.5200e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		151.2131	151.2131	3.7000e-003		151.3055
Total	**0.0735**	**0.0520**	**0.5040**	**1.5200e-003**	**0.1643**	**1.0600e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**151.2131**	**151.2131**	**3.7000e-003**		**151.3055**

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 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	0.0735	0.0520	0.5040	1.5200e-003	0.1643	1.0600e-003	0.1654	0.0436	9.8000e-004	0.0446		151.2131	151.2131	3.7000e-003		151.3055
Total	**0.0735**	**0.0520**	**0.5040**	**1.5200e-003**	**0.1643**	**1.0600e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**151.2131**	**151.2131**	**3.7000e-003**		**151.3055**

3.5 Building Construction - 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					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 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	1.2567	36.2997	9.7962	0.0846	2.1322	0.1790	2.3112	0.6138	0.1712	0.7850		8,956.3081	8,956.3081	0.4895		8,968.5443
Worker	2.8235	1.9968	19.3527	0.0583	6.3089	0.0409	6.3498	1.6734	0.0376	1.7111		5,806.5824	5,806.5824	0.1420		5,810.1329
Total	**4.0802**	**38.2965**	**29.1489**	**0.1429**	**8.4411**	**0.2198**	**8.6609**	**2.2872**	**0.2088**	**2.4960**		**14,762.8905**	**14,762.8905**	**0.6315**		**14,778.6772**

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					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 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	1.2567	36.2997	9.7962	0.0846	2.1322	0.1790	2.3112	0.6138	0.1712	0.7850		8,956.3081	8,956.3081	0.4895		8,968.5443
Worker	2.8235	1.9968	19.3527	0.0583	6.3089	0.0409	6.3498	1.6734	0.0376	1.7111		5,806.5824	5,806.5824	0.1420		5,810.1329
Total	**4.0802**	**38.2965**	**29.1489**	**0.1429**	**8.4411**	**0.2198**	**8.6609**	**2.2872**	**0.2088**	**2.4960**		**14,762.8905**	**14,762.8905**	**0.6315**		**14,778.6772**

3.5 Building Construction - 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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 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	1.0348	32.8324	8.8230	0.0838	2.1323	0.0730	2.2052	0.6138	0.0698	0.6836		8,871.2551	8,871.2551	0.4622		8,882.8097
Worker	2.6160	1.7826	17.6495	0.0562	6.3089	0.0397	6.3486	1.6734	0.0366	1.7100		5,602.8414	5,602.8414	0.1268		5,606.0109
Total	**3.6508**	**34.6150**	**26.4725**	**0.1400**	**8.4412**	**0.1127**	**8.5539**	**2.2872**	**0.1064**	**2.3936**		**14,474.0965**	**14,474.0965**	**0.5890**		**14,488.8205**

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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 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	1.0348	32.8324	8.8230	0.0838	2.1323	0.0730	2.2052	0.6138	0.0698	0.6836		8,871.2551	8,871.2551	0.4622		8,882.8097
Worker	2.6160	1.7826	17.6495	0.0562	6.3089	0.0397	6.3486	1.6734	0.0366	1.7100		5,602.8414	5,602.8414	0.1268		5,606.0109
Total	**3.6508**	**34.6150**	**26.4725**	**0.1400**	**8.4412**	**0.1127**	**8.5539**	**2.2872**	**0.1064**	**2.3936**		**14,474.0965**	**14,474.0965**	**0.5890**		**14,488.8205**

3.5 Building Construction - 2022

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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

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	0.9650	31.0839	8.2940	0.0829	2.1323	0.0634	2.1957	0.6138	0.0606	0.6744		8,783.4255	8,783.4255	0.4415		8,794.4630
Worker	2.4417	1.5983	16.1961	0.0541	6.3089	0.0388	6.3477	1.6734	0.0357	1.7091		5,397.4427	5,397.4427	0.1135		5,400.2805
Total	**3.4066**	**32.6822**	**24.4901**	**0.1370**	**8.4413**	**0.1021**	**8.5434**	**2.2873**	**0.0963**	**2.3836**		**14,180.8682**	**14,180.8682**	**0.5550**		**14,194.7435**

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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

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	0.9650	31.0839	8.2940	0.0829	2.1323	0.0634	2.1957	0.6138	0.0606	0.6744		8,783.4255	8,783.4255	0.4415		8,794.4630
Worker	2.4417	1.5983	16.1961	0.0541	6.3089	0.0388	6.3477	1.6734	0.0357	1.7091		5,397.4427	5,397.4427	0.1135		5,400.2805
Total	**3.4066**	**32.6822**	**24.4901**	**0.1370**	**8.4413**	**0.1021**	**8.5434**	**2.2873**	**0.0963**	**2.3836**		**14,180.8682**	**14,180.8682**	**0.5550**		**14,194.7435**

3.5 Building Construction - 2023

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					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

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	0.7254	23.9577	7.3649	0.0805	2.1324	0.0283	2.1608	0.6139	0.0271	0.6409		8,538.5803	8,538.5803	0.3748		8,547.9506
Worker	2.2872	1.4369	14.8749	0.0521	6.3089	0.0380	6.3469	1.6734	0.0350	1.7084		5,190.7442	5,190.7442	0.1016		5,193.2835
Total	**3.0126**	**25.3946**	**22.2398**	**0.1325**	**8.4414**	**0.0663**	**8.5077**	**2.2873**	**0.0621**	**2.3493**		**13,729.3244**	**13,729.3244**	**0.4764**		**13,741.2341**

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					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

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	0.7254	23.9577	7.3649	0.0805	2.1324	0.0283	2.1608	0.6139	0.0271	0.6409		8,538.5803	8,538.5803	0.3748		8,547.9506
Worker	2.2872	1.4369	14.8749	0.0521	6.3089	0.0380	6.3469	1.6734	0.0350	1.7084		5,190.7442	5,190.7442	0.1016		5,193.2835
Total	**3.0126**	**25.3946**	**22.2398**	**0.1325**	**8.4414**	**0.0663**	**8.5077**	**2.2873**	**0.0621**	**2.3493**		**13,729.3244**	**13,729.3244**	**0.4764**		**13,741.2341**

3.6 Paving - 2023

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					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1741**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

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	0.0447	0.0281	0.2905	1.0200e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		101.3817	101.3817	1.9800e-003		101.4313
Total	**0.0447**	**0.0281**	**0.2905**	**1.0200e-003**	**0.1232**	**7.4000e-004**	**0.1240**	**0.0327**	**6.8000e-004**	**0.0334**		**101.3817**	**101.3817**	**1.9800e-003**		**101.4313**

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					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1741**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

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	0.0447	0.0281	0.2905	1.0200e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		101.3817	101.3817	1.9800e-003		101.4313
Total	**0.0447**	**0.0281**	**0.2905**	**1.0200e-003**	**0.1232**	**7.4000e-004**	**0.1240**	**0.0327**	**6.8000e-004**	**0.0334**		**101.3817**	**101.3817**	**1.9800e-003**		**101.4313**

3.7 Architectural Coating - 2023

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**116.1385**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

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	0.4586	0.2881	2.9827	0.0104	1.2651	7.6100e-003	1.2727	0.3356	7.0100e-003	0.3426		1,040.8524	1,040.8524	0.0204		1,041.3615
Total	**0.4586**	**0.2881**	**2.9827**	**0.0104**	**1.2651**	**7.6100e-003**	**1.2727**	**0.3356**	**7.0100e-003**	**0.3426**		**1,040.8524**	**1,040.8524**	**0.0204**		**1,041.3615**

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**116.1385**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

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	0.4586	0.2881	2.9827	0.0104	1.2651	7.6100e-003	1.2727	0.3356	7.0100e-003	0.3426		1,040.8524	1,040.8524	0.0204		1,041.3615
Total	**0.4586**	**0.2881**	**2.9827**	**0.0104**	**1.2651**	**7.6100e-003**	**1.2727**	**0.3356**	**7.0100e-003**	**0.3426**		**1,040.8524**	**1,040.8524**	**0.0204**		**1,041.3615**

3.7 Architectural Coating - 2024

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**116.1276**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

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	0.4320	0.2602	2.7597	0.0100	1.2651	7.4700e-003	1.2725	0.3356	6.8800e-003	0.3424		999.6604	999.6604	0.0183		1,000.1182
Total	**0.4320**	**0.2602**	**2.7597**	**0.0100**	**1.2651**	**7.4700e-003**	**1.2725**	**0.3356**	**6.8800e-003**	**0.3424**		**999.6604**	**999.6604**	**0.0183**		**1,000.1182**

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					
Archit. Coating	115.9469					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**116.1276**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

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	0.4320	0.2602	2.7597	0.0100	1.2651	7.4700e-003	1.2725	0.3356	6.8800e-003	0.3424		999.6604	999.6604	0.0183		1,000.1182
Total	**0.4320**	**0.2602**	**2.7597**	**0.0100**	**1.2651**	**7.4700e-003**	**1.2725**	**0.3356**	**6.8800e-003**	**0.3424**		**999.6604**	**999.6604**	**0.0183**		**1,000.1182**

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	15.9797	40.7736	203.2184	0.8197	111.3518	0.5636	111.9154	29.7425	0.5232	30.2657		82,381.3220	82,381.3220	2.0743		82,433.1791
Unmitigated	15.9797	40.7736	203.2184	0.8197	111.3518	0.5636	111.9154	29.7425	0.5232	30.2657		82,381.3220	82,381.3220	2.0743		82,433.1791

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	192.02	36.37	18.73	423,420	423,420
Hotel	1,845.69	1,845.69	1845.69	5,191,105	5,191,105
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	6,804.01	7,964.22	7964.22	19,908,989	19,908,989
Total	15,802.16	18,696.68	18,679.05	46,456,712	46,456,712

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
General Light Industry	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.602552	0.040000	0.200000	0.110000	0.010000	0.005431	0.020000	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586
NaturalGas Unmitigated	0.2144	1.9494	1.6375	0.0117		0.1482	0.1482		0.1482	0.1482		2,339.2575	2,339.2575	0.0448	0.0429	2,353.1586

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					
Discount Club	673.096	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.1878	79.1878	1.5200e-003	1.4500e-003	79.6583
Gasoline/Service Station	158.348	1.7100e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6292	18.6292	3.6000e-004	3.4000e-004	18.7399
General Light Industry	1991.15	0.0215	0.1952	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.2527	234.2527	4.4900e-003	4.2900e-003	235.6448
Hotel	16024.4	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1036.66	0.0112	0.1016	0.0854	6.1000e-004		7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003		121.9598	121.9598	2.3400e-003	2.2400e-003	122.6846
Total		**0.2144**	**1.9494**	**1.6375**	**0.0117**		**0.1482**	**0.1482**		**0.1482**	**0.1482**		**2,339.2575**	**2,339.2575**	**0.0448**	**0.0429**	**2,353.1586**

5.2 Energy by Land Use - NaturalGas

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					
Discount Club	0.673096	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003		79.1878	79.1878	1.5200e-003	1.4500e-003	79.6583
Gasoline/Service Station	0.158348	1.7100e-003	0.0155	0.0130	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003		18.6292	18.6292	3.6000e-004	3.4000e-004	18.7399
General Light Industry	1.99115	0.0215	0.1952	0.1640	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.2527	234.2527	4.4900e-003	4.2900e-003	235.6448
Hotel	16.0244	0.1728	1.5710	1.3197	9.4300e-003		0.1194	0.1194		0.1194	0.1194		1,885.2280	1,885.2280	0.0361	0.0346	1,896.4310
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	1.03666	0.0112	0.1016	0.0854	6.1000e-004		7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003		121.9598	121.9598	2.3400e-003	2.2400e-003	122.6846
Total		**0.2144**	**1.9494**	**1.6375**	**0.0117**		**0.1482**	**0.1482**		**0.1482**	**0.1482**		**2,339.2575**	**2,339.2575**	**0.0448**	**0.0429**	**2,353.1586**

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	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Unmitigated	4.9425	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598

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	1.7062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3700e-003	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Total	**4.9425**	**6.3000e-004**	**0.0697**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1501**	**0.1501**	**3.9000e-004**		**0.1598**

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	1.7062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.3700e-003	6.3000e-004	0.0697	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1501	0.1501	3.9000e-004		0.1598
Total	**4.9425**	**6.3000e-004**	**0.0697**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**		**0.1501**	**0.1501**	**3.9000e-004**		**0.1598**

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

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

EXHIBIT C

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Subject: Indoor Air Quality: Johnson Drive EDZ – Pleasanton, CA
(IEE File Reference: P-4278)

Pages: 15

Indoor Air Quality Impacts

Indoor air quality (IAQ) directly impacts the comfort and health of building occupants, and the achievement of acceptable IAQ in newly constructed and renovated buildings is a well-recognized design objective. For example, IAQ is addressed by major high-performance building rating systems and building codes (California Building Standards Commission, 2014; USGBC, 2014). Indoor air quality in homes is particularly important because occupants, on average, spend approximately ninety percent of their time indoors with the majority of this time spent at home (EPA, 2011). Some segments of the population that are most susceptible to the effects of poor IAQ, such as the very young and the elderly, occupy their homes almost continuously. Additionally, an increasing number of adults are working from home at least some of the time during the workweek. Indoor air quality also is a serious concern for workers in hotels, offices and other business establishments.

The concentrations of many air pollutants often are elevated in homes and other buildings relative to outdoor air because many of the materials and products used indoors contain

and release a variety of pollutants to air (Hodgson et al., 2002; Offermann and Hodgson, 2011). With respect to indoor air contaminants for which inhalation is the primary route of exposure, the critical design and construction parameters are the provision of adequate ventilation and the reduction of indoor sources of the contaminants.

Indoor Formaldehyde Concentrations Impact. In the California New Home Study (CNHS) of 108 new homes in California (Offermann, 2009), 25 air contaminants were measured, and formaldehyde was identified as the indoor air contaminant with the highest cancer risk as determined by the California Proposition 65 Safe Harbor Levels (OEHHA, 2017a), No Significant Risk Levels (NSRL) for carcinogens. The NSRL is the daily intake level calculated to result in one excess case of cancer in an exposed population of 100,000 (i.e., ten in one million cancer risk) and for formaldehyde is 40 µg/day. The NSRL concentration of formaldehyde that represents a daily dose of 40 µg is 2 $\mu g/m^3$, assuming a continuous 24-hour exposure, a total daily inhaled air volume of 20 m^3, and 100% absorption by the respiratory system. All of the CNHS homes exceeded this NSRL concentration of 2 $\mu g/m^3$. The median indoor formaldehyde concentration was 36 $\mu g/m^3$, and ranged from 4.8 to 136 $\mu g/m^3$, which corresponds to a median exceedance of the 2 $\mu g/m^3$ NSRL concentration of 18 and a range of 2.3 to 68.

Therefore, the cancer risk of a resident living in a California home with the median indoor formaldehyde concentration of 36 $\mu g/m^3$, is 180 per million as a result of formaldehyde alone. The CEQA significance threshold for airborne cancer risk is 10 per million, as established by the Sacramento Metropolitan Air Quality Management District (BAAQMD, 2017).

Besides being a human carcinogen, formaldehyde is also a potent eye and respiratory irritant. In the CNHS, many homes exceeded the non-cancer reference exposure levels (RELs) prescribed by California Office of Environmental Health Hazard Assessment (OEHHA, 2017b). The percentage of homes exceeding the RELs ranged from 98% for the Chronic REL of 9 $\mu g/m^3$ to 28% for the Acute REL of 55 $\mu g/m^3$.

The primary source of formaldehyde indoors is composite wood products manufactured with urea-formaldehyde resins, such as plywood, medium density fiberboard, and particleboard. These materials are commonly used in building construction for flooring, cabinetry, baseboards, window shades, interior doors, and window and door trims.

In January 2009, the California Air Resources Board (CARB) adopted an airborne toxics control measure (ATCM) to reduce formaldehyde emissions from composite wood products, including hardwood plywood, particleboard, medium density fiberboard, and also furniture and other finished products made with these wood products (California Air Resources Board 2009). While this formaldehyde ATCM has resulted in reduced emissions from composite wood products sold in California, they do not preclude that homes built with composite wood products meeting the CARB ATCM will have indoor formaldehyde concentrations that are below cancer and non-cancer exposure guidelines.

A follow up study to the California New Home Study (CNHS) was conducted in 2016-2018 (Chan et. al., 2018), and found that the median indoor formaldehyde in new homes built after 2009 with CARB Phase 2 Formaldehyde ATCM materials had lower indoor formaldehyde concentrations, with a median indoor concentrations of 25 $\mu g/m^3$ as compared to a median of 36 $\mu g/m^3$ found in the 2007 CNHS.

Thus, while new homes built after the 2009 CARB formaldehyde ATCM have a 30% lower median indoor formaldehyde concentration and cancer risk, the median lifetime cancer risk is still 125 per million for homes built with CARB compliant composite wood products, which is more than 12 times the OEHHA 10 in a million cancer risk threshold (OEHHA, 2017a).

With respect to this project, the proposed buildings at Johnson Drive EDZ – Pleasanton, CA include hotels and commercial retail spaces (Costco).

The employees in the hotel and retail buildings are expected to experience work-day exposures (e.g. 40 hours per week, 50 weeks per year). This exposure for employees is anticipated to result in significant cancer risks resulting from exposures to formaldehyde

released by the building materials and furnishing commonly found in commercial retail buildings.

Because these hotel and retail buildings will be constructed with CARB Phase 2 Formaldehyde ATCM materials, and be ventilated with the minimum code required amount of outdoor air, the indoor formaldehyde concentrations are likely similar to those concentrations observed in residences built with CARB Phase 2 Formaldehyde ATCM materials, which is a median of 25 $\mu g/m^3$.

Assuming that the employees in these buildings work 8 hours per day and inhale 20 m^3 of air per day, the formaldehyde dose per work-day in the commercial retail buildings is 167 µg/day.

Assuming that the employees work 5 days per week and 50 weeks per year for 45 years (start at age 20 and retire at age 65) the average 70 year lifetime formaldehyde daily dose is 73.6 µg/day.

This is 1.84 times the NSRL (OEHHA, 2017a) of 40 µg/day and represents a cancer risk of 18.4 per million, which exceeds the BAAQMD CEQA cancer risk of 10 per million. This impact should be analyzed in an environmental impact report ("EIR"), and the agency should impose all feasible mitigation measures to reduce this impact. Several feasible mitigation measures are discussed below and these and other measures should be analyzed in an EIR.

While measurements of the indoor concentrations of formaldehyde in residences built with CARB Phase 2 Formaldehyde ATCM materials (Chan et. al., 2018), indicate that indoor formaldehyde concentrations in buildings built with similar materials (e.g. hotels, residences, offices, warehouses, schools) will pose cancer risks in excess of the CEQA cancer risk of 10 per million, a determination of the cancer risk that is specific to this project and the materials used to construct these buildings can and should be conducted prior to completion of the environmental review.

The following describes a method that should be used prior to construction in the environmental review under CEQA, for determining whether the indoor concentrations resulting from the formaldehyde emissions of the specific building materials/furnishings selected for the building exceed cancer and non-cancer guidelines. Such a design analyses can be used to identify those materials/furnishings prior to the completion of the City's CEQA review and project approval, that have formaldehyde emission rates that contribute to indoor concentrations that exceed cancer and non-cancer guidelines, so that alternative lower emitting materials/furnishings may be selected and/or higher minimum outdoor air ventilation rates can be increased to achieve acceptable indoor concentrations and incorporated as mitigation measures for this project.

Pre-Construction Building Material/Furnishing Formaldehyde Emissions Assessment.

This formaldehyde emissions assessment should be used in the environmental review under CEQA to assess the indoor formaldehyde concentrations from the proposed loading of building materials/furnishings, the area-specific formaldehyde emission rate data for building materials/furnishings, and the design minimum outdoor air ventilation rates. This assessment allows the applicant (and the City) to determine before the conclusion of the environmental review process and the building materials/furnishings are specified, purchased, and installed if the total chemical emissions will exceed cancer and non-cancer guidelines, and if so, allow for changes in the selection of specific material/furnishings and/or the design minimum outdoor air ventilations rates such that cancer and non-cancer guidelines are not exceeded.

1.) Define Indoor Air Quality Zones. Divide the building into separate indoor air quality zones, (IAQ Zones). IAQ Zones are defined as areas of well-mixed air. Thus, each ventilation system with recirculating air is considered a single zone, and each room or group of rooms where air is not recirculated (e.g. 100% outdoor air) is considered a separate zone. For IAQ Zones with the same construction material/furnishings and design minimum outdoor air ventilation rates. (e.g. hotel rooms, apartments, condominiums, etc.) the formaldehyde emission rates need only be assessed for a single IAQ Zone of that type.

2.) Calculate Material/Furnishing Loading. For each IAQ Zone, determine the building material and furnishing loadings (e.g., m^2 of material/m^2 floor area, units of furnishings/m^2 floor area) from an inventory of all potential indoor formaldehyde sources, including flooring, ceiling tiles, furnishings, finishes, insulation, sealants, adhesives, and any products constructed with composite wood products containing urea-formaldehyde resins (e.g., plywood, medium density fiberboard, particleboard).

3.) Calculate the Formaldehyde Emission Rate. For each building material, calculate the formaldehyde emission rate (µg/h) from the product of the area-specific formaldehyde emission rate (µg/m^2-h) and the area (m^2) of material in the IAQ Zone, and from each furnishing (e.g. chairs, desks, etc.) from the unit-specific formaldehyde emission rate (µg/unit-h) and the number of units in the IAQ Zone.

NOTE: As a result of the high-performance building rating systems and building codes (California Building Standards Commission, 2014; USGBC, 2014), most manufacturers of building materials furnishings sold in the United States conduct chemical emission rate tests using the California Department of Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions for Indoor Sources Using Environmental Chambers", (CDPH, 2017), or other equivalent chemical emission rate testing methods. Most manufacturers of building furnishings sold in the United States conduct chemical emission rate tests using ANSI/BIFMA M7.1 Standard Test Method for Determining VOC Emissions (BIFMA, 2018), or other equivalent chemical emission rate testing methods.

CDPH, BIFMA, and other chemical emission rate testing programs, typically certify that a material or furnishing does not create indoor chemical concentrations in excess of the maximum concentrations permitted by their certification. For instance, the CDPH emission rate testing requires that the measured emission rates when input into an office, school, or residential model do not exceed one-half of the OEHHA Chronic Exposure Guidelines (OEHHA, 2017b) for the 35 specific VOCs, including formaldehyde, listed in Table 4-1 of the CDPH test method (CDPH, 2017). These certifications themselves do not provide the actual area-specific formaldehyde emission rate (i.e., µg/m^2-h) of the product, but rather provide data that the formaldehyde emission rates do not exceed the

maximum rate allowed for the certification. Thus for example, the data for a certification of a specific type of flooring may be used to calculate that the area-specific emission rate of formaldehyde is less than 31 µg/m^2-h, but not the actual measured specific emission rate, which may be 3, 18, or 30 µg/m^2-h. These area-specific emission rates determined from the product certifications of CDPH, BIFA, and other certification programs can be used as an initial estimate of the formaldehyde emission rate.

If the actual area-specific emission rates of a building material or furnishing is needed (i.e. the initial emission rates estimates from the product certifications are higher than desired), then that data can be acquired by requesting from the manufacturer the complete chemical emission rate test report. For instance if the complete CDPH emission test report is requested for a CDHP certified product, that report will provide the actual area-specific emission rates for not only the 35 specific VOCs, including formaldehyde, listed in Table 4-1 of the CDPH test method (CDPH, 2017), but also all of the cancer and reproductive/developmental chemicals listed in the California Proposition 65 Safe Harbor Levels (OEHHA, 2017a), all of the toxic air contaminants (TACs) in the California Air Resources Board Toxic Air Contamination List (CARB, 2011), and the 10 chemicals with the greatest emission rates.

Alternatively, a sample of the building material or furnishing can be submitted to a chemical emission rate testing laboratory, such as Berkeley Analytical Laboratory (https://berkeleyanalytical.com), to measure the formaldehyde emission rate.

4.) Calculate the Total Formaldehyde Emission Rate. For each IAQ Zone, calculate the total formaldehyde emission rate (i.e. µg/h) from the individual formaldehyde emission rates from each of the building material/furnishings as determined in Step 3.

5.) Calculate the Indoor Formaldehyde Concentration. For each IAQ Zone, calculate the indoor formaldehyde concentration (µg/m^3) from Equation 1 by dividing the total formaldehyde emission rates (i.e. µg/h) as determined in Step 4, by the design minimum outdoor air ventilation rate (m^3/h) for the IAQ Zone.

$$C_{in} = \frac{E_{total}}{Q_{oa}} \quad \text{(Equation 1)}$$

where:

C_{in} = indoor formaldehyde concentration (µg/m^3)

E_{total} = total formaldehyde emission rate (µg/h) into the IAQ Zone.

Q_{oa} = design minimum outdoor air ventilation rate to the IAQ Zone (m^3/h)

The above Equation 1 is based upon mass balance theory, and is referenced in Section 3.10.2 "Calculation of Estimated Building Concentrations" of the California Department of Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions for Indoor Sources Using Environmental Chambers", (CDPH, 2017).

6.) Calculate the Indoor Exposure Cancer and Non-Cancer Health Risks. For each IAQ Zone, calculate the cancer and non-cancer health risks from the indoor formaldehyde concentrations determined in Step 5 and as described in the OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines; Guidance Manual for Preparation of Health Risk Assessments (OEHHA, 2015).

7.) Mitigate Indoor Formaldehyde Exposures of exceeding the CEQA Cancer and/or Non-Cancer Health Risks. In each IAQ Zone, provide mitigation for any formaldehyde exposure risk as determined in Step 6, that exceeds the CEQA cancer risk of 10 per million or the CEQA non-cancer Hazard Quotient of 1.0.

Provide the source and/or ventilation mitigation required in all IAQ Zones to reduce the health risks of the chemical exposures below the CEQA cancer and non-cancer health risks.

Source mitigation for formaldehyde may include:

1.) reducing the amount materials and/or furnishings that emit formaldehyde
2.) substituting a different material with a lower area-specific emission rate of formaldehyde

Ventilation mitigation for formaldehyde emitted from building materials and/or

furnishings may include:

1.) increasing the design minimum outdoor air ventilation rate to the IAQ Zone.

NOTE: Mitigating the formaldehyde emissions through use of less material/furnishings, or use of lower emitting materials/furnishings, is the preferred mitigation option, as mitigation with increased outdoor air ventilation increases initial and operating costs associated with the heating/cooling systems.

It is important to note that at the time that the Supplemental Environmental Impact Report was written in 2015 for the project, it was unknown if using composite wood products that meet the most recent CARB ATCM Phase 2 requirements, would achieve indoor concentrations of formaldehyde with cancer risks that meet the BAAQMD CEQA requirements. Since 2015, new information has become available in the Chan study, which was presented at Indoor Air 2018 in July of 2018, that shows that using composite wood products that meet CARB ATCM Phase 2 requirements does not achieve indoor concentrations of formaldehyde with cancer risks that meet the BAAQMD CEQA requirements. Composite wood products that are NAF or ULEF are required to achieve acceptable cancer risks.

Further, we are not asking that the builder to "speculate" on what and how much composite materials be used, but rather at this stage to select composite wood materials based on the formaldehyde emission rates that manufacturers routinely conduct using the California Department of Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions for Indoor Sources Using Environmental Chambers", (CDPH, 2017), and use the procedure described earlier (i.e. Pre-Construction Building Material/Furnishing Formaldehyde Emissions Assessment) to insure that the materials selected achieve acceptable cancer risks from material off gassing of formaldehyde.

Outdoor Air Ventilation Impact. Another important finding of the CNHS, was that the outdoor air ventilation rates in the homes were very low. Outdoor air ventilation is a very important factor influencing the indoor concentrations of air contaminants, as it is the primary removal mechanism of all indoor air generated air contaminants. Lower outdoor air exchange rates cause indoor generated air contaminants to accumulate to higher indoor

air concentrations. Many homeowners rarely open their windows or doors for ventilation as a result of their concerns for security/safety, noise, dust, and odor concerns (Price, 2007). In the CNHS field study, 32% of the homes did not use their windows during the 24-hour Test Day, and 15% of the homes did not use their windows during the entire preceding week. Most of the homes with no window usage were homes in the winter field session. Thus, a substantial percentage of homeowners never open their windows, especially in the winter season. The median 24-hour measurement was 0.26 ach, with a range of 0.09 ach to 5.3 ach. A total of 67% of the homes had outdoor air exchange rates below the minimum California Building Code (2001) requirement of 0.35 ach. Thus, the relatively tight envelope construction, combined with the fact that many people never open their windows for ventilation, results in homes with low outdoor air exchange rates and higher indoor air contaminant concentrations.

The Johnson Drive EDZ – Pleasanton, CA development is close to roads with moderate to high traffic (e.g. I-680, I-580, and Stoneridge Drive), as well as BART rail traffic. As a result of the outdoor vehicle and rail traffic noise, this has been determined to be a sound impacted site according to the Draft Environmental Impact Report (ESA, 2015), with noise levels ranging to 57.7 – 70.1 dBA Ldn as reported in Table 4.C-6.

As a result of the high outdoor noise levels, the current project will require the need for mechanical supply of outdoor air ventilation air to allow for a habitable interior environment with closed windows and doors. Such a ventilation system would allow windows and doors to be kept closed at the occupant's discretion to control exterior noise within building interiors.

<u>$PM_{2.5}$ Outdoor Concentrations Impact</u>. An additional impact of the nearby motor vehicle traffic associated with this project, are the outdoor concentrations of $PM_{2.5}$. According to the Draft Environmental Impact Report (ESA, 2015), this development is located in the Bay Area, which is a State and Federal non-attainment area for $PM_{2.5}$.

An air quality analyses should to be conducted to determine the concentrations of $PM_{2.5}$ in the outdoor and indoor air that people inhale each day. This air quality analyses needs to

consider the cumulative impacts of the project related emissions, existing and projected future emissions from local $PM_{2.5}$ sources (e.g. stationary sources, motor vehicles, and airport traffic) upon the outdoor air concentrations at the project site. If the outdoor concentrations are determined to exceed the California and National annual average $PM_{2.5}$ exceedence concentration of 12 $\mu g/m^3$, or the National 24-hour average exceedence concentration of 35 $\mu g/m^3$, then the buildings need to have a mechanical supply of outdoor air that has air filtration with sufficient $PM_{2.5}$ removal efficiency, such that the indoor concentrations of outdoor $PM_{2.5}$ particles is less than the California and National $PM_{2.5}$ annual and 24-hour standards.

It is my experience that based on the projected high traffic noise levels, the annual average concentration of $PM_{2.5}$ will exceed the California and National $PM_{2.5}$ annual and 24-hour standards and warrant installation of high efficiency air filters (i.e. MERV 13 or higher) in all mechanically supplied outdoor air ventilation systems.

Indoor Air Quality Impact Mitigation Measures

The following are recommended mitigation measures to minimize the impacts upon indoor quality:

- indoor formaldehyde concentrations
- outdoor air ventilation
- $PM_{2.5}$ outdoor air concentrations

<u>Indoor Formaldehyde Concentrations Mitigation</u>. Use only composite wood materials (e.g. hardwood plywood, medium density fiberboard, particleboard) for all interior finish systems that are made with CARB approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins (CARB, 2009). Other projects such as the AC by Marriott Hotel – West San Jose Project (Asset Gas SC Inc.) and 2525 North Main Street, Santa Ana (AC 2525 Main LLC, 2019) have entered into settlement agreements stipulating the use of composite wood materials only containing NAF or ULEF resins.

Alternatively, conduct the previously described Pre-Construction Building Material/Furnishing Chemical Emissions Assessment, to determine that the combination of formaldehyde emissions from building materials and furnishings do not create indoor formaldehyde concentrations that exceed the CEQA cancer and non-cancer health risks.

It is important to note that we are not asking that the builder to "speculate" on what and how much composite materials be used, but rather at the design stage to select composite wood materials based on the formaldehyde emission rates that manufacturers routinely conduct using the California Department of Health "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions for Indoor Sources Using Environmental Chambers", (CDPH, 2017), and use the procedure described earlier (i.e. Pre-Construction Building Material/Furnishing Formaldehyde Emissions Assessment) to insure that the materials selected achieve acceptable cancer risks from material off gassing of formaldehyde.

Outdoor Air Ventilation Mitigation. Provide each habitable room with a continuous mechanical supply of outdoor air that meets or exceeds the California 2016 Building Energy Efficiency Standards (California Energy Commission, 2015) requirements of the greater of 15 cfm/occupant or 0.15 cfm/ft^2 of floor area. Following installation of the system conduct testing and balancing to insure that required amount of outdoor air is entering each habitable room and provide a written report documenting the outdoor airflow rates. Do not use exhaust only mechanical outdoor air systems, use only balanced outdoor air supply and exhaust systems or outdoor air supply only systems. Provide a manual for the occupants or maintenance personnel, that describes the purpose of the mechanical outdoor air system and the operation and maintenance requirements of the system.

$PM_{2.5}$ Outdoor Air Concentration Mitigation. Install air filtration with sufficient $PM_{2.5}$ removal efficiency (e.g. MERV 13 or higher) to filter the outdoor air entering the mechanical outdoor air supply systems, such that the indoor concentrations of outdoor $PM_{2.5}$ particles are less than the California and National $PM_{2.5}$ annual and 24-hour standards. Install the air filters in the system such that they are accessible for replacement by the occupants or maintenance personnel. Include in the mechanical outdoor air

ventilation system manual instructions on how to replace the air filters and the estimated frequency of replacement.

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Education

M.S. Mechanical Engineering (1985)
Stanford University, Stanford, CA.

Graduate Studies in Air Pollution Monitoring and Control (1980)
University of California, Berkeley, CA.

B.S. in Mechanical Engineering (1976)
Rensselaer Polytechnic Institute, Troy, N.Y.

Professional Experience

President: Indoor Environmental Engineering, San Francisco, CA. December, 1981 - present.

Direct team of environmental scientists, chemists, and mechanical engineers in conducting State and Federal research regarding indoor air quality instrumentation development, building air quality field studies, ventilation and air cleaning performance measurements, and chemical emission rate testing.

Provide design side input to architects regarding selection of building materials and ventilation system components to ensure a high quality indoor environment.

Direct Indoor Air Quality Consulting Team for the winning design proposal for the new State of Washington Ecology Department building.

Develop a full-scale ventilation test facility for measuring the performance of air diffusers; ASHRAE 129, Air Change Effectiveness, and ASHRAE 113, Air Diffusion Performance Index.

Develop a chemical emission rate testing laboratory for measuring the chemical emissions from building materials, furnishings, and equipment.

Principle Investigator of the California New Homes Study (2005-2007). Measured ventilation and indoor air quality in 108 new single family detached homes in northern and southern California.

Develop and teach IAQ professional development workshops to building owners, managers, hygienists, and engineers.

Air Pollution Engineer: Earth Metrics Inc., Burlingame, CA, October, 1985 to March, 1987.

Responsible for development of an air pollution laboratory including installation a forced choice olfactometer, tracer gas electron capture chromatograph, and associated calibration facilities. Field team leader for studies of fugitive odor emissions from sewage treatment plants, entrainment of fume hood exhausts into computer chip fabrication rooms, and indoor air quality investigations.

Staff Scientist: Building Ventilation and Indoor Air Quality Program, Energy and Environment Division, Lawrence Berkeley Laboratory, Berkeley, CA. January, 1980 to August, 1984.

Deputy project leader for the Control Techniques group; responsible for laboratory and field studies aimed at evaluating the performance of indoor air pollutant control strategies (i.e. ventilation, filtration, precipitation, absorption, adsorption, and source control).

Coordinated field and laboratory studies of air-to-air heat exchangers including evaluation of thermal performance, ventilation efficiency, cross-stream contaminant transfer, and the effects of freezing/defrosting.

Developed an *in situ* test protocol for evaluating the performance of air cleaning systems and introduced the concept of effective cleaning rate (ECR) also known as the Clean Air Delivery Rate (CADR).

Coordinated laboratory studies of portable and ducted air cleaning systems and their effect on indoor concentrations of respirable particles and radon progeny.

Co-designed an automated instrument system for measuring residential ventilation rates and radon concentrations.

Designed hardware and software for a multi-channel automated data acquisition system used to evaluate the performance of air-to-air heat transfer equipment.

Assistant Chief Engineer: Alta Bates Hospital, Berkeley, CA, October, 1979 to January, 1980.

Responsible for energy management projects involving installation of power factor correction capacitors on large inductive electrical devices and installation of steam meters on physical plant steam lines. Member of Local 39, International Union of Operating Engineers.

Manufacturing Engineer: American Precision Industries, Buffalo, NY, October, 1977 to October, 1979.

Responsible for reorganizing the manufacturing procedures regarding production of shell and tube heat exchangers. Designed customized automatic assembly, welding, and testing equipment. Designed a large paint spray booth. Prepared economic studies justifying new equipment purchases. Safety Director.

Project Engineer: Arcata Graphics, Buffalo, N.Y. June, 1976 to October, 1977.

Responsible for the design and installation of a bulk ink storage and distribution system and high speed automatic counting and marking equipment. Also coordinated material handling studies which led to the purchase and installation of new equipment.

PROFESSIONAL ORGANIZATION MEMBERSHIP

American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)

- Chairman of SPC-145P, Standards Project Committee - Test Method for Assessing the Performance of Gas Phase Air Cleaning Equipment (1991-1992)
- Member SPC-129P, Standards Project Committee - Test Method for Ventilation Effectiveness (1986-97)
  - Member of Drafting Committee
- Member Environmental Health Committee (1992-1994, 1997-2001, 2007-2010)
  - Chairman of EHC Research Subcommittee
  - Member of Man Made Mineral Fiber Position Paper Subcommittee
  - Member of the IAQ Position Paper Committee
  - Member of the Legionella Position Paper Committee
  - Member of the Limiting Indoor Mold and Dampness in Buildings Position Paper Committee
- Member SSPC-62, Standing Standards Project Committee - Ventilation for Acceptable Indoor Air Quality (1992 to 2000)
  - Chairman of Source Control and Air Cleaning Subcommittee
- Chairman of TC-4.10, Indoor Environmental Modeling (1988-92)
  - Member of Research Subcommittee
- Chairman of TC-2.3, Gaseous Air Contaminants and Control Equipment (1989-92)
  - Member of Research Subcommittee

American Society for Testing and Materials (ASTM)

- D-22 Sampling and Analysis of Atmospheres
  - Member of Indoor Air Quality Subcommittee
- E-06 Performance of Building Constructions

American Board of Industrial Hygiene (ABIH)

American Conference of Governmental Industrial Hygienists (ACGIH)

- Bioaerosols Committee (2007-2013)

American Industrial Hygiene Association (AIHA)

Cal-OSHA Indoor Air Quality Advisory Committee

International Society of Indoor Air Quality and Climate (ISIAQ)

- Co-Chairman of Task Force on HVAC Hygiene

U. S. Green Building Council (USGBC)
- Member of the IEQ Technical Advisory Group (2007-2009)
- Member of the IAQ Performance Testing Work Group (2010-2012)

Western Construction Consultants (WESTCON)

PROFESSIONAL CREDENTIALS

Licensed Professional Engineer - Mechanical Engineering

Certified Industrial Hygienist - American Board of Industrial Hygienists

SCIENTIFIC MEETINGS AND SYMPOSIA

Biological Contamination, Diagnosis, and Mitigation, Indoor Air'90, Toronto, Canada, August, 1990.

Models for Predicting Air Quality, Indoor Air'90, Toronto, Canada, August, 1990.

Microbes in Building Materials and Systems, Indoor Air '93, Helsinki, Finland, July, 1993.

Microorganisms in Indoor Air Assessment and Evaluation of Health Effects and Probable Causes, Walnut Creek, CA, February 27, 1997.

Controlling Microbial Moisture Problems in Buildings, Walnut Creek, CA, February 27, 1997.

Scientific Advisory Committee, Roomvent 98, 6th International Conference on Air Distribution in Rooms, KTH, Stockholm, Sweden, June 14-17, 1998.

Moisture and Mould, Indoor Air '99, Edinburgh, Scotland, August, 1999.

Ventilation Modeling and Simulation, Indoor Air '99, Edinburgh, Scotland, August, 1999.

Microbial Growth in Materials, Healthy Buildings 2000, Espoo, Finland, August, 2000.

Co-Chair, Bioaerosols X- Exposures in Residences, Indoor Air 2002, Monterey, CA, July 2002.

Healthy Indoor Environments, Anaheim, CA, April 2003.

Chair, Environmental Tobacco Smoke in Multi-Family Homes, Indoor Air 2008, Copenhagen, Denmark, July 2008.

Co-Chair, ISIAQ Task Force Workshop; HVAC Hygiene, Indoor Air 2002, Monterey, CA, July 2002.

Chair, ETS in Multi-Family Housing: Exposures, Controls, and Legalities Forum, Healthy Buildings 2009, Syracuse, CA, September 14, 2009.

Chair, Energy Conservation and IAQ in Residences Workshop, Indoor Air 2011, Austin, TX, June 6, 2011.

Chair, Electronic Cigarettes: Chemical Emissions and Exposures Colloquium, Indoor Air 2016, Ghent, Belgium, July 4, 2016.

SPECIAL CONSULTATION

Provide consultation to the American Home Appliance Manufacturers on the development of a standard for testing portable air cleaners, AHAM Standard AC-1.

Served as an expert witness and special consultant for the U.S. Federal Trade Commission regarding the performance claims found in advertisements of portable air cleaners and residential furnace filters.

Conducted a forensic investigation for a San Mateo, CA pro se defendant, regarding an alleged homicide where the victim was kidnapped in a steamer trunk. Determined the air exchange rate in the steamer trunk and how long the person could survive.

Conducted *in situ* measurement of human exposure to toluene fumes released during nailpolish application for a plaintiffs attorney pursuing a California Proposition 65 product labeling case. June, 1993.

Conducted a forensic *in situ* investigation for the Butte County, CA Sheriff's Department of the emissions of a portable heater used in the bedroom of two twin one year old girls who suffered simultaneous crib death.

Consult with OSHA on the 1995 proposed new regulation regarding indoor air quality and environmental tobacco smoke.

Consult with EPA on the proposed Building Alliance program and with OSHA on the proposed new OSHA IAQ regulation.

Johnson Controls Audit/Certification Expert Review; Milwaukee, WI. May 28-29, 1997.

Winner of the nationally published 1999 Request for Proposals by the State of Washington to conduct a comprehensive indoor air quality investigation of the Washington State Department of Ecology building in Lacey, WA.

Selected by the State of California Attorney General's Office in August, 2000 to conduct a comprehensive indoor air quality investigation of the Tulare County Court House.

Lawrence Berkeley Laboratory IAQ Experts Workshop: "Cause and Prevention of Sick Building Problems in Offices: The Experience of Indoor Environmental Quality Investigators", Berkeley, California, May 26-27, 2004.

Provide consultation and chemical emission rate testing to the State of California Attorney General's Office in 2013-2015 regarding the chemical emissions from e-cigarettes.

PEER-REVIEWED PUBLICATIONS :

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W.W.Nazaroff, F.J.Offermann, and A.W.Robb, "Automated System for Measuring Air Exchange Rate and Radon Concentration in Houses," *Health Physics*, *45*, pp. 525-537, 1983.

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W.J. Fisk, R.K.Spencer, F.J.Offermann, R.K.Spencer, B.Pedersen, R.Sextro, "Indoor Air Quality Control Techniques," *Noyes Data Corporation*, Park Ridge, New Jersey, (1987).

F.J.Offermann, "Ventilation Effectiveness and ADPI Measurements of a Forced Air Heating System," *ASHRAE Transactions* , Volume 94, Part 1, pp 694-704, 1988.

F.J.Offermann and D. Int-Hout "Ventilation Effectiveness Measurements of Three Supply/Return Air Configurations," *Environment International* , Volume 15, pp 585-592 1989.

F.J. Offermann, S.A. Loiselle, M.C. Quinlan, and M.S. Rogers, "A Study of Diesel Fume Entrainment in an Office Building," *IAQ '89*, The Human Equation: Health and Comfort, pp 179-183, ASHRAE, Atlanta, GA, 1989.

R.G.Sextro and F.J.Offermann, "Reduction of Residential Indoor Particle and Radon Progeny Concentrations with Ducted Air Cleaning Systems," submitted to *Indoor Air*, 1990.

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"Designing for Healthy and Comfortable Indoor Environments", Construction Specification Institute, Santa Rosa, CA, November 6, 1997.

"Ventilation System Design for Good IAQ", University of Tulsa 10th Annual Conference, San Francisco, CA, February 25, 1998.

"The Building Shell", Tools For Building Green Conference and Trade Show, Alameda County Waste Management Authority and Recycling Board, Oakland, CA, February 28, 1998.

"Identifying Fungal Contamination Problems In Buildings", The City of Oakland Municipal Employees, Oakland, CA, March 26, 1998.

"Managing Indoor Air Quality in Schools: Staying Out of Trouble", CASBO, Sacramento, CA, April 20, 1998.

"Indoor Air Quality", CSOOC Spring Conference, Visalia, CA, April 30, 1998.

"Particulate and Gas Phase Air Filtration", ACGIH/OSHA, Ft. Mitchell, KY, June 1998.

"Building Air Quality Facts and Myths", The City of Oakland / Alameda County Safety Seminar, Oakland, CA, June 12, 1998.

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"Identifying and Mitigating Mold Contamination in Buildings", Western Construction Consultants Association, Oakland, CA, March 15, 2000; AIG Construction Defect Seminar, Walnut Creek, CA, May 2, 2001; City of Oakland Public Works Agency, Oakland, CA, July 24, 2001; Executive Council of Homeowners, Alamo, CA, August 3, 2001.

"Using the EPA BASE Study for IAQ Investigation / Communication", Joint Professional Symposium 2000, American Industrial Hygiene Association, Orange County & Southern California Sections, Long Beach, October 19, 2000.

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"Diagnostics & Mitigation in Sick Buildings: When Good Buildings Go Bad," University of California Berkeley, September 18, 2001.

"Mold Contamination: Recognition and What To Do and Not Do", Redwood Empire Remodelers Association; Santa Rosa, CA, April 16, 2002.

"Investigative Tools of the IAQ Trade", Healthy Indoor Environments 2002; Austin, TX; April 22, 2002.

"Finding Hidden Mold: Case Studies in IAQ Investigations", AIHA Northern California Professionals Symposium; Oakland, CA, May 8, 2002.

"Assessing and Mitigating Fungal Contamination in Buildings", Cal/OSHA Training; Oakland, CA, February 14, 2003 and West Covina, CA, February 20-21, 2003.

"Use of External Containments During Fungal Mitigation", Invited Speaker, ACGIH Mold Remediation Symposium, Orlando, FL, November 3-5, 2003.

Building Operator Certification (BOC), 106-IAQ Training Workshops, Northwest Energy Efficiency Council; Stockton, CA, December 3, 2003; San Francisco, CA, December 9, 2003; Irvine, CA, January 13, 2004; San Diego, January 14, 2004; Irwindale, CA, January 27, 2004; Downey, CA, January 28, 2004; Santa Monica, CA, March 16, 2004; Ontario, CA, March 17, 2004; Ontario, CA, November 9, 2004, San Diego, CA, November 10, 2004; San Francisco, CA, November 17, 2004; San Jose, CA, November 18, 2004; Sacramento, CA, March 15, 2005.

"Mold Remediation: The National QUEST for Uniformity Symposium", Invited Speaker, Orlando, Florida, November 3-5, 2003.

"Mold and Moisture Control", Indoor Air Quality workshop for The Collaborative for High Performance Schools (CHPS), San Francisco, December 11, 2003.

"Advanced Perspectives In Mold Prevention & Control Symposium", Invited Speaker, Las Vegas, Nevada, November 7-9, 2004.

"Building Sciences: Understanding and Controlling Moisture in Buildings", American Industrial Hygiene Association, San Francisco, CA, February 14-16, 2005.

"Indoor Air Quality Diagnostics and Healthy Building Design", University of California Berkeley, Berkeley, CA, March 2, 2005.

"Improving IAQ = Reduced Tenant Complaints", Northern California Facilities Exposition, Santa Clara, CA, September 27, 2007.

"Defining Safe Building Air", Criteria for Safe Air and Water in Buildings, ASHRAE Winter Meeting, Chicago, IL, January 27, 2008.

"Update on USGBC LEED and Air Filtration", Invited Speaker, NAFA 2008 Convention, San Francisco, CA, September 19, 2008.

"Ventilation and Indoor air Quality in New California Homes", National Center of Healthy Housing, October 20, 2008.

"Indoor Air Quality in New Homes", California Energy and Air Quality Conference, October 29, 2008.

"Mechanical Outdoor air Ventilation Systems and IAQ in New Homes", ACI Home Performance Conference, Kansas City, MO, April 29, 2009.

"Ventilation and IAQ in New Homes with and without Mechanical Outdoor Air Systems", Healthy Buildings 2009, Syracuse, CA, September 14, 2009.

"Ten Ways to Improve Your Air Quality", Northern California Facilities Exposition, Santa Clara, CA, September 30, 2009.

"New Developments in Ventilation and Indoor Air Quality in Residential Buildings", Westcon meeting, Alameda, CA, March 17, 2010.

"Intermittent Residential Mechanical Outdoor Air Ventilation Systems and IAQ", ASHRAE SSPC 62.2 Meeting, Austin, TX, April 19, 2010.

"Measured IAQ in Homes", ACI Home Performance Conference, Austin, TX, April 21, 2010.

"Respiration: IEQ and Ventilation", AIHce 2010, How IH Can LEED in Green buildings, Denver, CO, May 23, 2010.

"IAQ Considerations for Net Zero Energy Buildings (NZEB)", Northern California Facilities Exposition, Santa Clara, CA, September 22, 2010.

"Energy Conservation and Health in Buildings", Berkeley High SchoolGreen Career Week, Berkeley, CA, April 12, 2011.

"What Pollutants are Really There ?", ACI Home Performance Conference, San Francisco, CA, March 30, 2011.

"Energy Conservation and Health in Residences Workshop", Indoor Air 2011, Austin, TX, June 6, 2011.

"Assessing IAQ and Improving Health in Residences", US EPA Weatherization Plus Health, September 7, 2011.

"Ventilation: What a Long Strange Trip It's Been", Westcon, May 21, 2014.

"Chemical Emissions from E-Cigarettes: Direct and Indirect Passive Exposures", Indoor Air 2014, Hong Kong, July, 2014.

"Infectious Disease Aerosol Exposures With and Without Surge Control Ventilation System Modifications", Indoor Air 2014, Hong Kong, July, 2014.

"Chemical Emissions from E-Cigarettes", IMF Health and Welfare Fair, Washington, DC, February 18, 2015.

"Chemical Emissions and Health Hazards Associated with E-Cigarettes", Roswell Park Cancer Institute, Buffalo, NY, August 15, 2014.

"Formaldehyde Indoor Concentrations, Material Emission Rates, and the CARB ATCM", Harris Martin's Lumber Liquidators Flooring Litigation Conference, WQ Minneapolis Hotel, May 27, 2015.

"Chemical Emissions from E-Cigarettes: Direct and Indirect Passive Exposure", FDA Public Workshop: Electronic Cigarettes and the Public Health, Hyattsville, MD June 2, 2015.

"Creating Healthy Homes, Schools, and Workplaces", Chautauqua Institution, Athenaeum Hotel, August 24, 2015.

"Diagnosing IAQ Problems and Designing Healthy Buildings", University of California Berkeley, Berkeley, CA, October 6, 2015.

"Diagnosing Ventilation and IAQ Problems in Commercial Buildings", BEST Center Annual Institute, Lawrence Berkeley National Laboratory, January 6, 2016.

"A Review of Studies of Ventilation and Indoor Air Quality in New Homes and Impacts of Environmental Factors on Formaldehyde Emission Rates From Composite Wood Products", AIHce2016, May, 21-26, 2016.

"Admissibility of Scientific Testimony", Science in the Court, Proposition 65 Clearinghouse Annual Conference, Oakland, CA, September 15, 2016.

"Indoor Air Quality and Ventilation", ASHRAE Redwood Empire, Napa, CA, December 1, 2016.

Comment Letter 2

m | r | wolfe
& associates, p.c.
attorneys-at-law

August 23, 2019

Via E-Mail

Eric Luchini
Associate Planner
City of Pleasanton Planning Division
P.O. Box 520
Pleasanton, CA 94566-0802
eluchini@cityofpleasantonca.gov

Re: Comments on Supplemental and Recirculated Provisions of Environmental Impact Report for Johnson Drive Economic Development Zone (Case Nos. PUD-105 and P14-0852)

Dear Mr. Luchini:

Please accept the following comments on the supplemental and recirculated provisions of the environmental impact report (EIR) referenced above, submitted on behalf of Pleasanton Citizens for Responsible Growth (PCRG).The comments are organized by topic area.

Health Risk Assessment

The January, 2019 Health Risk Assessment (HRA) states, at page 5:

Buildout of the proposed project area would be completed in two phases. Phase 1 would develop Parcels 6, 9, and 10, **all of which are currently vacant**; **Phase 2 would develop the remaining parcels and assumes demolition of existing improvements.** Phase 1 would include two components: Phase 1A includes construction of a Costco retail store and Costco gas station on Parcel 6; Phase 1B includes construction of a 231-room hotel and 5,000 sf of retail space on parcels 9 and 10. Phase 1 construction would commence in the second quarter of 2020 and have a duration of approximately one year. Phase 1 construction sub-phases include: grading/excavation, drainage/utilities/sub-grade, foundation/concrete pour, building construction, architectural coatings, and paving. A detailed 1

> construction schedule and construction equipment list was provided for Phase 1A by the City and Costco. The construction schedule and equipment fleet for Phase 1B was estimated based on CalEEMod defaults for the hotel and retail space and adjusted using the more detailed construction phase types provided by the City. The default schedule was also adjusted assuming all construction would occur in 2020. Phase 2 construction is conservatively assumed to commence in the first quarter of 2030 and have a duration of approximately one year. **Phase 2 construction sub-phases include: demolition**, grading/excavation, drainage/utilities/sub-grade, foundation/concrete pour, building construction, architectural coatings, and paving." [Boldface added.]

This suggests that demolition of existing buildings at the site will occur only in Phase 2 (2030).

The statement appears to conflict with information presented at various other locations within the body of material the City has circulated. For example, the July, 2019 "Supplemental Recirculation Memo" states, at page 4:

> "Construction of the JDEDZ would occur in two phases. Phase 1 would begin in 2020 with a one-year duration and Phase 2 would begin in 2030 with a one-year duration. **Each of the construction phases** would utilize energy for necessary on-site construction activities and to transport materials, soil, and **debris to and from the site."**

1 cont.

The Memo states on page 5:

> "As stated in the HRA prepared for the JDEDZ, <u>Phase 1</u> would not require haul trucks to export rubble resulting from the demolition of existing buildings at the site; <u>all rubble and</u> <u>new construction and demolition debris would be reused on-site.</u> By using this material on-site as construction base, the JDEDZ would eliminate both disposal trips for the demolition debris and haul trips for new aggregated fill material, thus eliminating the diesel fuel consumption associated with each truck trip."

The HRA itself, meanwhile, states on its page 6:

> "There are several existing on-site buildings that house various commercial and/or retail uses, <u>comprising approximately **224,700 sf** of space.</u> These buildings will remain until Phase 2 construction begins and would be <u>fully demolished during Phase 2 construction</u>. Project construction would not require export haul trucks as existing rubble and new construction and

demolition debris would be reused on-site."

The foregoing suggests substantial inconsistency in the reported timing of demolition activities at the Project site. Som statements indicate the demolition of existing buildings will occur in Phase 1, while others suggest it will be to Phase 2, in the 2030 timeframe. This is a critical conflict since using the rubble from demolition of the 224,700 SF of space appears to be identified for use as fill during grading/construction phases in Phase 1. However, the HRA indicates that demolition activities are to occur only in Phase 2 construction. Modeling of demolition activities in the wrong phase would skew and likely invalidate the results of the HRA. 1 cont.

The HRA also states at page 15 that all the concrete demolition debris will be recycled on-site and not hauled off. This is not a reasonable assumption. As noted above, existing buildings on the Project site occupy 224,700 SF of space - equivalent to a square building with sides 474 feet long. Moreover, because the existing buildings are principally commercial retail structures, they can be expected to have roof and interior heights from 10' to 30'. While concrete tilt-up, warehouse-style buildings can be used to generate fill using their crushed concrete materials, those same buildings will contain a wide variety of materials that will require offsite recycling and landfilling. These include reinforcing steel ("rebar"), roofing materials, dropped ceiling materials, cellulosic trim materials, doors and windows, insulation, plumbing, electrical remnants, floor coverings, and interior furnishings. 2

It is all but impossible that all demolition materials will possibly be retained and used onsite for new construction. Those materials, whether recycled, reused elsewhere, or landfilled will require transport off-site via diesel truck trips that have not been accounted for in the Project's mobile source emissions analysis or the HRA. And notwithstanding the foreseeable, if not certain, off-site hauling of demolition materials, the Updated Air Quality Analysis materials fail to identify concrete processing equipment (crushers, screeners, etc.) that can be expected to operate with diesel engines of greater than 50 horsepower each. Failure to account for both off-site demolition-related trips and emissions from onsite demolition material-processing equipment invalidates the HRA's calculations of TAC emissions and its conclusions regarding resultant health risk.

Tables 6 and 9 of the HRA do not provide cancer risk estimates for Construction Phase 1 alone. Rather, they include estimated risks for construction plus operational overlapping emissions, as well as for the full operation scenario. In light of CEQA's mandate that a lead agency investigate and disclose all it reasonably can, the failure to provide cancer risks for Construction Phase 1, by itself, is inappropriate. All other tables identifying hazard risks and PM2.5 concentrations include the three 3

scenarios: construction Phase 1, construction plus operational, and full operation. 3 cont.

Table 6 of the HRA also reports updated trip generation estimates for Phase 1, with calculations of assumed pass-by trips that will reduce total Project-related trip numbers. There, a 30 percent pass-by rate is shown for retail, and 35 percent pass-by for club retail with fuel. By comparison, CalEEMod's default pass-by rate for retail (strip mall) is 15 percent, discount club is 15 percent, and gas station is 59 percent. Likewise, the Institute of Transportation Engineers (ITE)'s pass-by rates for combined club retail and gasoline dispensing facility is 35 percent. Yet the HRA provides no explanation of how these differing rates were obtained, other than to say that information is held by the City. The pass-by trip assumptions must be supported by evidence. The City should disclose this information to the public so that the trip generation assumptions underlying the air quality and health risk analyses can be verified. Finally, no supporting evidence or explanation is provided for the "weighted daily trips" shown in Table 6 of the HRA. 4

Updated Air Quality Analysis

The Updated Air Quality Analysis specifies the following mitigation measure at pg. 26:

> "**Mitigation Measure M-AQ-2: Low-VOC Architectural Coatings.** The project sponsor shall require that all future tenants at the Project site use low- and super-compliant VOC architectural coatings during any maintenance or repainting activities. 'Low-VOC' refers to paints that meet the more stringent regulatory limits in South Coast Air Quality Management District rule 111; however, many manufacturers have reformulated to levels well below these limits. These are referred to as 'Super-Compliant' architectural coatings."

The use of Ultra-low VOC paint (10g/L) during maintenance activities for operational land uses at the Project site over time will be virtually impossible to enforce. Building lessees and operators are, over time, unlikely to have a condition of their rental or lease agreements stipulating use of only ultra-low emitting architectural coatings for upgrades, maintenance, repairs. And even if such a stipulation were in rental/lease contracts, contract information showing the stipulation would not be readily available to employees or sub-contractors performing routine upgrades, maintenance, or repairs involving use of paints or other coatings, nor would it would be enforceable since such upgrades would not be subject to inspection. Finally, this mitigation measure references SCAQMD Rule 111 in error; Rule 111 limits NOx emissions in flue gas from operation of furnaces and has nothing to do with 5

architectural coatings.

Mitigation measure M-AQ-2 should be revised to generate reductions in VOC needed to reduce the project to less-than- significant VOC emissions by other, more practicable and enforceable means. A commitment by Costco to operate near-zero emission (NZE)[1] or commercial BEVs (battery electric vehicles) would provide reductions of all criteria pollutants. A commitment to utilize renewable diesel in diesel vehicles and equipment would also provide reductions in Greenhouse Gas (GHG) emissions. 5 cont.

The HRA at p. 21, and its Appendix at pg. 90, rely on the Gas Station Service Industrywide Risk Assessment Guideline (Nov 1997) for gas station TOG emissions factors, leading to the estimate of approximately 15.895 tons/year TOG. However, the Updated Air Quality Analysis states at p. 15 that use of CARB Revised Emissions Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities (Dec 2013) for TOG emission factors, leading to approximately 6.60 tons/year TOG. (See pdf pg. 1862 of 2291 of the Updated Air Quality Analysis document; Appendix A, Operational Emissions, Gas Station section.) 6

While use of the more conservative TOG emission factors for the HRA confers greater public health protection against TAC exposures, the same factors should have been used in the analysis of Project-related criteria pollutant emissions. Using the CAPCOA factors in the criteria pollutants estimation would add 9.295 tons/year TOG to the Air Quality Supplemental Analysis review. While this would provide consistency, it would also drive the daily ROG estimate, already slightly over the daily TOS without mitigation, even further over the TOS and well beyond the reach of the "no consumer products and no paints" mitigation noted in the documentation.

It appears that VOC-emitting consumer products (e.g., canned whip cream; spray paint; WD-40-style lubricants; bathroom and kitchen spray cleaners; hair spray; spray deodorant; etc.) were excluded from CalEEMod emissions modeling for all land uses in the JDEDZ other than the proposed hotel. The Updated Air Quality Analysis asserts at p. 15, that: "Since most of the project's land uses are commercial 7

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[1] NZE commercial heavy-duty vehicles operate with CARB-certified NOx emissions at or below .02 g/bhp-hr NOx, a reduction of 90% over 2010 and later diesel commercial heavy-duty vehicles and operate on natural gas or renewable natural gas, or propane or renewable propane. See www.roushcleantech.com for information on NZE propane trucks and buses, and www.cumminswestport.com for information about NZE natural gas trucks and buses. Renewable diesel fuel is available broadly throughout CA and will provide reductions of carbon emissions by up to 80% over traditional diesel fuel, without affecting performance or economy factors.

and would not be associated with extensive consumer product use (such as hairsprays and aerosols), this analysis assumed consumer product emissions would only be attributed to the hotel land use." This assertion is simply not credible. It is reasonably foreseeable, if not virtually certain, that all land uses at the Project site will, at various times, use spray (pressurized) cans containing "consumer products." Excluding VOC emissions from these sources from the model likely results in a substantial understatement of emissions and associated air quality impacts. 7 cont.

Economic Impact & Traffic Analyses

Under Public Resources Code section 21166, a lead agency must prepare a subsequent or supplemental EIR where one or more of the following events occurs:

> (a) substantial changes are proposed in the project which will require major revisions of the environmental impact report;
>
> (b) substantial changes occur with respect to the circumstances under which the project is being undertaken which will require major revisions in the environmental impact report; or
>
> (c) new information, which was not known and could not have been known at the time the environmental impact report was certified as complete, becomes available.

See also CEQA Guidelines, 15 C.C.R. §§ 15162, 15163.

We understand that several commercial development projects have been approved in the area of Dublin or Pleasanton near the I-580 / I-680 interchange since the SEIR was prepared and circulated in 2015-2016. These include, but are not necessarily limited to Zeiss Innovations on Dublin Blvd, Kaiser Permanente on Stoneridge Drive, Shea Properties' "At Dublin" project, and a number of hotels. It is reasonably foreseeable, if not virtually certain, that these projects may have significant cumulative impacts when viewed in tandem with the Costco component of the JDEDZ Project. The City should update the SEIR's original traffic, air quality, and economic impact analyses accordingly, and add mitigation where feasible 8

Comment Letter 2

Thank you for your consideration of these comments.

Yours sincerely,

M. R. WOLFE & ASSOCIATES, P.C.

Mark R. Wolfe
On behalf of Pleasanton Citizens for
Responsible Growth

MRW:sa

Comment Letter 3

From: Kellie Collier
To: Eric Luchini
Subject: Johnson Drive economic zone
Date: Tuesday, August 13, 2019 6:56:16 PM

Mr. Luchini

I have a traffic concern about allowing a large retail store on this site. The Stoneridge/Johnson Drive intersection in its current format is too close to the 680 freeway for traffic to flow smoothly. 1

Northbound traffic on 680 doesn't have much space to turn right then queue up to turn left on Johnson. This will cause backups all the way down the freeway ramp and potentially onto the freeway.

Southbound traffic on 680 already backs up merging with cars trying to enter 680 from eastbound 580. This is going to get worse with additional cars trying to exit at Stoneridge from both southbound 680 and eastbound 580. Once the cars make it to the ramp there will be back ups of cars waiting to turn left onto Stoneridge. 2

Traffic eastbound on Stoneridge has to negotiate three signals to cross the bridge and turn left on Johnson Drive. There is not much room on this bridge for cars to queue up waiting to make it to the next signal. Cars coming eastbound on this bridge will be competing with the cars trying to exit from northbound 680 to get into that too-short left turn lane onto Johnson Dr. 3

Cars leaving Costco that want to turn right from Johnson Dr onto Stoneridge are going to back up waiting their turn. There is already a big slowdown trying to enter northbound 680 there, merging with those trying to get on eastbound 580. It's going to happen all the time now, instead of just the peak commute hours.

I can't imagine how you can mitigate this in the space that is available there. Maybe if you take some of the water district's property and move the whole interestion further east this could work. Otherwise I don't see a way to not have a huge impact on the traffic. 4

I have no objection to Costco, but I don't think the intersection of Stoneridge/Johnson Drive can handle the stress of all the additional car trips.

Thank you,

Kellie Collier
Pleasanton, CA

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Comment Letter 4

From: Karen Cooper
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 3:36:21 PM

Please DO NOT build Costco in Pleasanton!!! Our city is getting way to crowded as it is traffic is becoming problematic and I can'teven begin to imagine the traffic snarls around Stoneridge and Johnson Drive! Getting on and off the 680 freeway from Stoneridgeis dangerous enough now it will get even worse same for Hopyard exit, there will be even more accidents than there already are.The amount of money that Pleasanton is "loaning" Costco is ridiculous. Many people voted for this thinking they were saying NO toCostco but because of the convoluted wording on the ballot they inadvertently voted it in. Use the 20 million to build a new HighSchool that is desperately needed!

1

2

Thank you for your consideration.
Karen Cooper
[redacted] Raven Rd
Pleasanton 94566

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Comment Letter 5

From: [redacted]
To: Eric Luchini
Subject: COMMENTS: PUD-105, P-14-0852 Johnson Drive EDZ
Date: Friday, August 23, 2019 3:12:09 PM

Dear Mr. Luchini,

I want to address the reasons I am ***AGAINST*** the planned development on Johnson Drive.

I live on Brookside Court, off Stoneridge Drive at Springdale Avenue (Stoneridge Town homes). This is a residential area with a mix of town homes, single family homes and a new senior care facility. My husband purchased our home in 1979, BEFORE the mall was constructed, and all the traffic we live with daily from the mall, Kaiser, shops, businesses and BART.

I am very concerned about the increased traffic due to the planned Costco (with 2 others within a 5 mile drive north or east). Today, more people are using delivery service for those type of goods, or are downsizing and do not need massive packages of goods. Will this big box store be an empty eyesore in 10 years? Stoneridge Mall is struggling to keep tenants now, due to lifestyle changes and the increase in internet shopping and delivery services. 1

And the need for TWO hotels? The ones in the area have changed hands/brands several times over the 27 years I have lived here. Is there really enough demand for two more? Or will these eventually be "unbranded" and sold to be run by a family who have no idea of our community and brings undesirable types closer into our neighborhoods (referring to the reputation of drugs, prostitution and other undesirable activities to the hotels along the freeway read on police logs in local papers). Another coffee shop? Really? A gas station? Why not something REALLY needed on this side of town like a modern food market, similar to New Leaf that abandoned Pleasanton, or Whole Foods who chose Dublin? We are in a grocery ghetto over here! 2

We already have increased traffic on Stoneridge Drive since the extension opened and now more during the past few months every weekday afternoon beginning about 3-6 PM (commute traffic). It is then difficult to make a right hand turn from Springdale onto Stoneridge and then immediately into stopped traffic. Or the intersection is blocked by traffic that did not clear and I have to sit through one or two GREEN lights 3

o turn right onto Stoneridge. We already have to plan our days to be home and off the busy streets at these times. 3 cont.

I lease a garden plot from the City at Val Vista park. With the current work in the park, the traffic on Johnson Drive is busy and it is difficult to make a turn from the park on to Stoneridge Drive. I cannot imagine the difficulty if you allow all of this building to be done at this location. 4

I am totally against the increase of business traffic that will occur with the current City plans. I do not feel that our opinions or the impact on the neighborhood were considered. All the things that we love about Pleasanton are being chipped away so that we no longer enjoy our home and our location to the fullest. Please do not turn us into an extension of "every business is welcome" Dublin. 5

Thank you for your consideration.

Vicki Cunniffe

[redacted] Brookside Court

Pleasanton, CA 04588-3760

[redacted]

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Comment Letter 6

From: Sherrie
To: Eric Luchini
Subject: Johnson Drive development
Date: Tuesday, August 13, 2019 2:17:23 PM

I did not find any report on the expected traffic conditions this project will create. Have the leaders of Dublin's horrific traffic and building messes taken overour city? The neighborhoods of Stoneridge and Highland Oaks are going to be overrun with alternate routes to and from Costco. 1

Perhaps if one person on theplanning committee or council owned a small business, gas station, furniture or grocery store they might be very concerned regarding their loss of revenue, no matter the estimated percentage. This project does not belong in Pleasanton. 2

Sherrie Howell

Sent from my iPad

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Comment Letter 7

From: Robert Jacobsen
To: Eric Luchini
Subject: Costco - planning process
Date: Wednesday, August 14, 2019 3:40:06 PM

I would love a Costco store in Pleasanton, but Stoneridge Drive will not handle the traffic and especially during Holiday time. This concern is magnified by the fact that Stoneridge Drive is now a cut through road to Livermore. Our freeways north/south/west/east are gridlocked many hours of the day. Our school zones are gridlocked in morning/afternoon by student pickup hours.

I have been in Pleasanton since 1984 and traffic has gone from nice, to problematic at times, to gridlock forcing many to tempt red light running and gridlock blocking of intersections when the light turns red.

I worked for 11 years at the Safeway headquarters on Stoneridge Mall Drive before retiring in 2013. I remember the gridlock just trying to get out of the parking lot at the end of my 4 PM work day with the new Bart station during the Christmas shopping. Only the courtesy of an oncoming driver allowed one or two of us to escape onto Stoneridge Mall Rd. - - Now with all the expansion of Bart parking and the new expanded Workday campus, traffic is only worse.

Adding a high traffic retailer like Costco that accesses the existing roadways would be the deadly frosting on the cake. And freeways are becoming more gridlocked, not less. I have reviewed the potential Costco site on Johnson Drive and there is no way to mitigate the extra traffic, especially during holiday. Our Mayor thinks we can mitigate with more access and lanes, but he is dreaming the impossible dream. 1

We do not need to be adding more workers to the Pleasanton area until we solve and build up the housing needs. Otherwise you just force more commuting and cross traffic on our cut through roads. A large amount of the acreage on Johnson Drive should be devoted to high density housing with amenities like dry cleaners, grocery/convenience stores, eateries to minimize the tenants need to drive for basic needs. 2

High density housing is our most needed solution, as a single story home owner in Pleasanton I do not want high density housing **except that I now know it is a priority in our city and most others in the Bay Area**. If we do not address this we will see increasing homelessness, crime, drugs, alcoholism associated with such. - - We do not need a mini San Francisco "homeless problem" in Pleasanton.

Let's keep Pleasanton as nice as we can - more housing before more workerbees. Housing is the priority needed fix, not more high traffic stores.

Comment Letter 7

Sincerely, Robert Jacobsen [redacted] Thistledown Ct, Pleasanton, CA 94588 ph [redacted]

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Comment Letter 8

From: Pat Lanning
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 14, 2019 8:21:56 AM

Have you seen the traffic on 580 El Charro exit for the Outlets during the holidays? How about the back-up during most of the mornings at the 580/680 exchange? What do you think the traffic is going to be like at Stoneridge exit which also connects to the 580 exchange? I live on Denker Dr. There is going to be a mess on Stoneridge getting to the freeways. You know that there is going to be cut through traffic . I guess the people that want Costco figure, well it's not in our neighborhood. You realize that the Costco in Livermore and Danville is not that far away? 1

I AM AGAINST THIS PROJECT!

Regards,
Patricia Lanning
[redacted] Denker Dr.
Pleasanton, Ca
[redacted]

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Comment Letter 9

From: Don Maday
To: Eric Luchini
Cc: Mayor and City Council
Subject: RE: Comments to the SEIR for the JDEDZ
Date: Friday, August 23, 2019 11:25:33 AM

I apologize, my previous submission should have read, "Now, the new SEIR proposal increases the dispensers to 20, dramatically increasing the fueling capacity for sales by 25%. " I have corrected it below. Thank you.

From: Don Maday
Sent: Friday, August 23, 2019 10:50 AM
To: eluchini@cityofpleasantonca.gov
Cc: citycouncil@cityofpleasantonca.gov
Subject: Comments to the SEIR for the JDEDZ

Mr. Luchini:

The SEIR for the JDEDZ dated July 9, 2019 provides new economic impact data on local businesses; therefore, I request a new Economic Impact Analysis updating the 2015 study.

Originally in the 2015 study, Costco proposed a smaller gasoline facility with 16 fueling dispensers. Now, the new SEIR proposal increases the dispensers to 20, dramatically increasing the fueling capacity for sales by 25%. The new sales number is 26,640,000 gallons annually. This will have a substantially greater negative impact local businesses that sell gasoline. 1

Respectfully,

Don Maday
Maday Consulting LLC
[redacted]

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Comment Letter 10

From: Ann Pfaff-Doss
To: Eric Luchini
Subject: Supplemental EIR for JDEDZ
Date: Thursday, August 22, 2019 10:43:22 AM

Dear Eric Luchini,

I have read through the supplemental EIR and see that the conclusion is that there will be no adverse impact to the area due to the construction of a Costco and its gas station. While I am no climate scientist, I can't help but think that the increase in cars idling in traffic on Stoneridge drive wont have an impact. I have driven, walked and ridden a bike in north Pleasanton for over 40 years. The suggested road improvements for the area, to my mind, can't compensate for the fact that this large regional, commercial project is still located on a side road without adequate access from I-680. One just has to look at how access to and location of Stoneridge Mall to see the difference. 1

I have not seen any plan to widen the bridge over I-680. So, traffic coming from I-680 SB will be funneled into the existing two lanes. There is already only one side of the bridge with a bike/pedestrian lane, which means that two-way bike and pedestrian traffic is all on the existing sidewalk. 2

WB Stoneridge already backs up during the evening commute. NB I-680 ramp to is much too close to the I-680/I-580 interchange. It is already dangerous for cars to navigate. The installation of metering lights means that cars wishing to go north on I-680 will have to navigate three lanes either into speed limit-plus or backed up traffic from a dead stop. 3

There are also the intersection of Johnson and Stoneridge Drives. This is already an issue for anyone crossing Stoneridge. There are only two crosswalks and the cars turing right and left from Johnson Drive, frequently don't look for pedestrians. The installation of flashing lights at the entrance to the I-680 NB ramp has been a help, but, in general, this is a dangerous area and the new hotels and the associated retail will, potentially, bring even more foot traffic to the area. 4

There is a large empty lot in Hacienda Business Park near the new commuter housing, which would be a much better location for Costco, rather than trying to shoe-horn this large project into a confined and problematic area. 5

Regards,
Ann Pfaff-Doss

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Comment Letter 11

From: Randall Reber
To: Eric Luchini
Subject: Oppose new CostcoThursday,
Date: August 15, 2019 12:40:35 PM

To our city council,

As a 42 year resident I have seen many changes to our town some good and others not so.

While the measure supporting a new Costco was passed I feel residents did not fully understand the ramifications of allowing it to come in or were short sided in their thinking.

The increase in traffic and the logistics (ie the narrow road that currently exists) with little room to expand along the arroyo or parallel to Hwy580 seem to negate this development.

By the planning depts own feasibility study we were told the traffic on Stoneridge alone would increase from 3500 per day to 10,000 aftercompletion

Since Stoneridge is one of the mains roads to get to the new Kaiser in Dublin vs 580 this could be a real problem in future years.

1

I currently use the Livermore Costco and the 10 minutes it takes me to get there from Highland Oaks is certainly not an inconvenience.

I realize the city wants the additional tax revenue but at what expense to the long term quality of our town in added traffic and pollution.

Hopefully the city planners will give consideration to all input regarding this issue.

Respectfully,

Randall Reber

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Comment Letter 12

From: Craig Schwab
To: Eric Luchini
Cc: citycouncil@ci.pleasanton.ca.us
Subject: Costco - Pleasanton
Date: Thursday, August 22, 2019 2:25:51 PM

Mr Luchini;

I have been a Pleasanton resident since 1990. Four of my daughters have grown up and graduated from Pleasanton schools. A few questions, please:

1- The new SEIR shows the JDEDZ impact on air quality "less than significant". Yet, the BAAQMD determined it to be "unacceptable". How do you explain? 1

2 - Regarding the economic impact on businesses, there is no new study since the 2015 study which the new SEIR states to be "recirculated for public comment". How does this comply with the lawsuit/ complaint? 2

3 - The current study shows emissions from idling vehicles at 10 minutes while waiting to fuel gasoline. At 26,240,000 annual gallons as shown, this is approximately 72,000 gallons per day. With 20 dispensers or 40 fueling positions, this is 3,600 gallons per day per dispenser and 1800 per day per fueling position. During peak hours there will be long lines: 30-45 minute waits? How did the SEIR arrive at 10 minutes of idling per vehicle? 3

4 - Wasn't the original Costco proposal for 16 dispensers? How did it go to 20? 4

5 - I read that the average gas station sells 4,000 gallons per day. This Costco gas facility is equal in sales to 18 gas stations in one spot. Is this safe? Has any other Costco sold 26,240,000 gallons per year? If so, what are the number of vehicle accidents and the number of fuel spills at such locations? What lines of waiting time are created? 5

6 - The number of tanker trucks of gasoline is stated at 6 per day (12 trips). Each would have to carry 12,000 gallons of fuel to supply 72,000 gallons of sales per day. I don't think that 6 is the right number, nor does 12,000 gallons per tanker meets Caltrans weight limits. Is it really 8-10 fuel tankers per day on our freeways and city streets? This amounts to 16-20 fuel tanker trips per day. Do you agree? 6

7 - Costco warehouse delivery trucks is shown as 10 (20 trips). A Costco study shows the average 150,000 square feet warehouse receives 25 trucks (50 trips) with 5 loading docks. Can you explain the difference? 7

8 - How does the particulate matter from the gas portion go down from 6.95 in 2021 to 1.66 in 2031? ((Table 16). 8

9 - Will the infrastructure be complete by the second quarter of 2021 when Costco is scheduled to open in Phase 1? Or, will Costco open with 7500 Costco warehouse trips and 3371 gasoline trips per day, totaling 10,871 trips, without complete infrastructure? 9

10 - Table 8 shows the project boundary. The new Chic- fil-a is within the boundary, yet not shown. Was it considered for traffic purposes at 2000 trips per day? Was Workday at 4000 trips per day? Has there been a new traffic study since 2016 to include new local, and regional projects like IKEA? 10

I look forward to your responses.

C. Schwab

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PUD-105 and P14-0852/Johnson Drive Economic Development Zone Supplemental Air Quality Analysis Questions and Comments
Submitted by Matt Sullivan, Resident of Pleasanton
August 23, 2019

The following are my questions and comments regarding the subject Supplemental Air Quality Analysis documents:

July 9, 2019 Memorandum

1. Greenhouse Gas Analysis: Please identify the CEQA provision that permits a project finding that GHG emissions are "insignificant" based on a comparison to global GHG emissions and its effect on global climate change. 1

JDEDZ Heath Risk Assessment

1. Table 3, Daily Truck Deliveries, Costco store: How does this compare to other Costco stores of similar square footage and merchandise type? 2
2. Table 3, Daily Truck Deliveries, Costco Gas Station: How does this compare to other Costco gas stations based on number of pumps and gallons of gasoline sold per day? 3
3. Figure 2, Modeling Boundary: The air quality modeling boundary included very small portions of residential areas Stoneridge Apartments, Val Vista, and Stonedale Dr. These are the closest residential neighborhoods to Costco and where significant neighborhood concern exists about air quality impacts of the project. Why weren't the modeling boundaries extended to evaluate the impact on these entire neighborhoods to give a more accurate assessment of residential impacts? 4
4. Page 30, Gas Station: Was the fuel delivery truck travel to/from site and when idling on site included in the emissions analysis? 5
5. Page 42, Future Development Projects: There are a significant number of projects just completed or are planned soon near the project site which were not evaluated either for air quality or traffic impacts. These include: 6

   <u>Pleasanton</u>

   a. Workday office building adjacent to West Dublin BART station (410,000-square-foot, six-story building 2,200 employee)
   b. Redevelopment of the JC Penny Home Store site, reportedly for office of high density residential
   c. The redevelopment of Stoneridge Mall

   <u>Dublin</u>

   a. Zeiss Innovations - 433,090 sf; 1396 parking spaces
   b. Kaiser Permanente - 220,000 sf (opened May, 2019)
   c. At Dublin (Shea Properties) - 77.3 ac; 400,550 sf retail; 665 residential
   d. Corrie Center- 78,516 sf
   e. Tru Hotel - 120 rooms
   f. Hotel Corrie Center - 138 rooms
   g. Westin Hotel - 200 rooms
   h. Volvo dealership

Why were these projects not included in the air quality or previously perfumed traffic analysis? Please update the analysis to include emissions from these projects. 6 cont.

6. Page 44, Freeway Sources: Were the Freeway Sources of emissions part of the cumulative air quality Heath Risk Analysis? Please provide a diagram that illustrates the 1000-foot modeling boundary for the Freeway Sources. 7
7. Appendix A, Table 4: Explain rational for reducing trip generation. 8
8. Appendix A, Table 6: Explain rational for reducing trip generation. 9
9. Appendix A, Table 8: Does not include Fuel Truck emissions. 10
10. Appendix A, Table 13: Does not include Fuel Truck emissions. 11

Technical Memo on Updated Air Quality Analysis

1. Page 15, Para. 3.a.i: What is basis for annual gasoline throughput, other than "provided by the city"? 12
2. Table 4: Provide data from other Costco operations that corroborates daily truck deliveries. 13
3. Page 28-29: The changed emission models have significantly reduced emissions to the point where what was a "significant and unavoidable impact" in the Draft SEIR to "less than significant impact" in the Supplemental SEIR is too good to be true from Costco and the city's standpoint in terms of approving the project. Provide the technical and regulatory basis for making the modeling change. 14
4. Table 14: Same question. 15

Greenhouse Gas Technical Analysis

1. Page 10: How can a "CEQA-qualified" Climate Action Plan (CAP) adopted prior to the 2017 Climate Change Scoping Plan Update comply with the CO2e reductions as mandated by the 2017 plan? 16
2. Page 18, para, 2.4: Describe how the construction of the JDEDZ would hamper the ability to meet the existing CAP GHG reduction goals? 17
3. Page 18, para, 2.4: Provide an update on Pleasanton's progress on meeting GHG reduction goals of the CAP. 18
4. Table 3: The Emissions Reductions Strategies are policies, not firm or approved plans, and speculative at best. Provide the basis for calculation of GHG reductions for each strategy, timeline for implementation, and approval process to implement each strategy. 19
5. Table 3 and Chapter 2 Conclusion: How will current and future residential, commercial, and industrial growth affect the conclusion that CAP policies will offset GHG impacts of the JDEDZ? 20
6. Page 22, Energy Use: SB 32 will require broad-based electrification of energy usage to achieve its carbon reduction goals. Cities in California such as Berkeley have already adopted polices for full electrification of all new construction. Simply complying with the Title 24 Energy Code will be inadequate. Please explain why the city has not required the JDEDZ to be designed as a non-natural gas, fully electric energy usage project. 21
7. Page 34: What is the legal basis for the city to ignore SB 32 mandates for reducing GHG by 40% of 1990 levels by 2030? 22
8. Page 35: What is the legal basis for the city to ignore BAAQMD existing emissions efficiency thresholds? 23

9. Page 35-36: I would challenge the assertion that the project "would not have a significant effect on the environment" based on the convoluted and illogical arguments presented on page 35 and 36. This appears to be a manipulation of existing environmental law to benefit Costco and the project. Please provide a legal analysis and peer-reviewed interpretation of the arguments made on these pages for this finding. 24
10. Table 6: What percentage is the full JDEDZ buildout of 15 million tons annually of GHG emission to the total **retail** and **overall total** emissions in the city? How does this increase compare to annual GHG reductions goals in the city as required by the CAP? 25
11. Page 40: Provide the legal basis and criteria for using a "qualitative" analysis when sufficient data exists to perform a "quantitative" analysis? 26
12. Page 40, bottom of page: Same comment as #7 and #8. 27
13. Page 41: Please elaborate on the logic that a project that creates 15 million tons of GHG emissions per year helps meet and is consistent with the 2017 Scoping Plan update. Explain how this is not an inversion of the intent of California law to reduce GHG emissions. 28
14. Table 7: Please provide similar information of how the JDEDZ is consistent or inconsistent with the General Plan Sustainability policies and goals. 29
15. Page 46, Conclusion: The city seems to be basing their judgement of the effects of GHG emissions compared to that of global GHG emissions and global climate change. It is precisely the cumulative impacts of thousands of projects just like this one (and other activities) that have created global climate change. Identify the CEQA provision that permits an evaluation of project GHG emissions significance compared to global GHG emissions. 30

Economic Analysis

1. The Economic Analysis was performed in 2016 prior to the planning and construction of new retail and other projects in the Tri Valley. Please update the assumptions for newly constructed or planned projects, including the new IKEA in Dublin, not included in the 2016 analysis and re-evaluate the economic impacts of Costco. 31

Comment Letter 14

From: Dori Wong
To: Eric Luchini
Subject: Costco Needs More Study
Date: Monday, August 12, 2019 12:25:12 PM

Mr. Luchini,

I understand that Pleasanton wants and needs revenue. From the surface at a global level, our neighboring cities, especially Dublin, seem to have captured a greater share of revenue, sales tax, etc. than our city. Regardless, Pleasanton needs to be diligent about studying the effects of a Costco in the proposed location. In my opinion, the city planners have made decisions that I didn't consider optimal, for example:

1. Why does Pleasanton need to 2 Ranch 99 stores in Pleasanton? Did another Japanese or Korean store request to be at the Pacific Pearl? Did the city think of diversifying the options so that we had a Chinese grocery store and a Japanese or Korean grocery store? Now, we have 2 Chinese grocery stores plus there is a Ranch 99 in Dublin.
2. Why did Pleasanton let 24 Hr Fitness have a Pleasanton location without adequate parking? This caused havoc for the surrounding businesses. The surrounding businesses put up signs to prevent 24 Hr members from encroaching on their parking lot. I was a member of 24 and drove to the 24 in San Ramon simply because of the parking issue.
3. Why did Pleasanton decide to narrow Owen Drive in front of the BART station? Was there a more holistic way of approaching this? Traffic approaching the BART Station and driving to the Hacienda Drive 580 on ramp is challenging.
4. Why did Pleasanton let Chick-Fil-A build in that cramped corner off Hopyard & 580? Cars wind unsafely waiting for service.

I don't know the reasons that motivated those decisions. But hind sight is 20/20, I believe they were not the most appropriate or optimal decisions. For similar reasons, I think we need to exercise greater scrutiny for the building of a Costco in Pleasanton. I am sure the city has already done traffic pattern studies of congestion for every minute of every day of the work week and the weekend PLUS environmental impact studies have been done. Maybe an internal evaluation is not as objective as it can be...maybe the data needs to be assessed or re-assessed by an objective party. In addition to that, does the Tri-Valley area need another Costco within this 20 mile radius, 2 Costcos are more than sufficient. 1

Thanks for listening and entertaining opinions regarding this matter.

Respectfully,

Dorinda Wong
[redacted] Valenza Way
Pleasanton 94566

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Letters in Support of or in Opposition to the Project

From: Peter Miller
To: Eric Luchini; Mayor and City Council; Nelson Fialho
Subject: (EDZ) Costco
Date: Thursday, August 22, 2019 1:03:22 PM

Mayor, Vice-mayor, City Council, City Manager and Staff,

From the moment we kids, back in the 60's, hung around the construction of 680 at Bernal Ave., we understood times were changing. Fast forward today...without every conceivable transportation technology available, camera, parking space lot sensors application that Community could turn too, frontal road easement widened to safeguard future flood damage can be fixed, in and out control road in case of emergency, proper mitigation for Rv's, 5th wheels, boats and trailers, the short stretch of on ramp to Northbound 680 properly/off Johnson mitigated, the absolute, in writing, from State or who is responsible, that the West Las Positas Interchange can not become the City of Pleasanton's and States only mitigating form of existence for the future must be meant. Otherwise, a flawed project.

Although more could be written...this for now...primarily because we do not know what requires negotiation in final plans.

Respectfully, peter miller

Sent from my iPhone

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From: Sean Reilly
To: Eric Luchini
Subject: A view on Costco
Date: Wednesday, August 14, 2019 12:39:39 PM

To Eric Luchini,Associate Planner, City of Pleasanton - Planning Division

Word is that you are taking emails from Pleasanton residents regarding the voter-approved Costco. I want the thing. The voters want the thing. If you want to avoid having the City of Pleasanton sued, you will honor what we the voters said and let the Costco go in.

I personally don't enjoy driving to Livermore to go to Costco and then having my sales tax revenue going to fund their city government. I want it to go to Pleasanton.

Regards,

Sean Reilly

A homeowner in Pleasanton, CA.

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From: Karl Hageman
To: Eric Luchini
Subject: Affirmative vote, again, for Costco.
Date: Thursday, August 22, 2019 3:54:27 PM

Once again, I vote for Costco. Better the devil you know than the one that will take their place as it won't stay undeveloped for long. How many times must we vote for something in Pleasanton?

[redacted]
Sent from my iPad

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From: Natalie Mataras
To: Eric Luchini
Subject: Build Costco
Date: Wednesday, August 21, 2019 9:19:21 PM

We already voted and want Costco in our town
Sent from my iPhone

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From: Anne Messenger
To: Eric Luchini
Subject: Build Costco in Pleasanton
Date: Friday, August 23, 2019 7:37:53 AM

Please build the Costco in Pleasanton.

Sent from my iPhone

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From: Heidi Massie
To: Eric Luchini
Subject: Build Costco!
Date: Thursday, August 22, 2019 1:51:03 PM

Build Costco! I voted to build it as did most Pleasanton residents, so let's get started!

Heidi Massie
[redacted] Hall Ct

Sent from my iPhone

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From: Sara Walsh
To: Eric Luchini
Subject: Build it!
Date: Monday, August 12, 2019 7:50:32 AM

Hello Eric.
Just a quick note for a tally mark in the YES column to please get on with it and build the Costco and associated businesses. Like so many people, we are fed up with the vocal minority who create so much extra work and wasted money and resources. This project is an excellent use of the land with virtually no negative impact on Pleasanton residents. Heaven knows we need the revenue increase. If Matt Sullivan and his crew of wack jobs don't like it they can chose not to go there.

Thanks,
Pat Walsh

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From: Michael Moran
To: Eric Luchini
Subject: Build the COSTCO in Pleasanton
Date: Thursday, August 22, 2019 3:50:59 PM

Thought this already passed??

Thanks
Michael & Joanne Moran

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From: Debby Glassanos
To: Eric Luchini
Subject: BUILD the Costco
Date: Friday, August 23, 2019 6:29:10 AM

To: City of Pleasanton Staff

Please build the Costco and be done with it. There's always going to be "NIMBY" protests in any new development. This is a business that is good for many local residents and will generate some needed tax dollars. We have housing units being built everywhere in the Dublin, San Ramon, Pleasanton corridor that is bringing permanent excess traffic, water usage, school impact, crime, etc...and nobody protests and stops that progress. The people who will shop this new Costco are already here. Something will be built on that property. Let's stop making it difficult and BUILD the intended Costco. Costco is a good employer. They generate lots of tax dollars. Let Pleasanton reap some of the positive impact.

Thank You for your time.

Sent from my iPhone

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From: K. Oehlschlager
To: Eric Luchini
Subject: Chamber Member in Support of the Johnson Drive EDZ
Date: Thursday, August 15, 2019 1:25:58 PM

Dear Mr. Luchini,

As resident and Pleasanton Chamber member, I am writing to express my continued support for the Johnson Drive EDZ, which includes the development of Costco. The citizens of Pleasanton overwhelmingly passed the measure put forth on the ballot. I am disappointed in the continued discussion from voters in the minority expressing that the development should be stopped despite the outcome of the vote and the will of the citizens of Pleasanton. We should not be bullied by this minority. The community of Pleasanton has spoken, and it is strongly in favor of the Johnson Drive EDZ. I am confident that the city of Pleasanton will be diligent in performing the impact studies required and will carefully direct and closely manage the developers of the Johnson Drive EDZ to create an environment beneficial to all citizens of Pleasanton and the surrounding communities.

Best Regards,
Katherine Oehlschlager

Katherine Oehlschlager
Principal & Designer

Oilpress!
Brand Identity · Brand Communications
www.oilpress.net

[redacted]

Proud Pleasanton Chamber member for 15 years.

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From: Dan Rosler
To: Eric Luchini
Subject: Comment supporting Costco and updated EIR
Date: Tuesday, August 13, 2019 10:02:09 AM

Hi Eric,
Thank you for posting the updated EIR and summary findings re the JDEZ and Costco. Looks like the environmental impact went DOWN from the prior study? I hope that with the updated Report and the strong majority of residents supporting the Costco, the construction can get underway as soon as possible!

As you likely know, there may still be a very vocal minority opposing the Costco, but there really is a much large number of residents (as Measure MM showed) who, if not as specifically vocal, are still very supportive of the Costco and JDEZ.

Best,
Dan Rosler

[redacted] Vía de los Milagros
Pleasanton, CA 94566

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From: [redacted]
To: Eric Luchini
Subject: Cosco Concerns
Date: Wednesday, August 14, 2019 8:16:22 AM

Dear Mr. Luchini,

It is nice to read that there will be less than significant impact on the air quality around Costco. I voted against Costco being built because I have no problem driving to Livermore or San Ramon for a Costco visit. My worries are more around how the traffic on 680 will be affected. I am also concerned with how you would handle the parking situation for the whole strip mall. Having moved from the New Jersey 24 years ago, what I see is the larger Pleasanton grows, and the more congested it gets, the less friendly and stressed out the residents become. This friendly town I moved to is starting to adopt some of the characteristics of the congestion of the New York metro area due to the congestion of people frustrations. While I no doubt would shop there occasionally, it is not of great value to me. I think the biggest value would be if it brought money for improvements to our small town. I would totally be supportive and rooting for it if some of the money brought in could go towards the renovations that PSUD needs to fix all the much-needed repair to our schools. When we lost that bond we tired to pass 7 or 8 years ago, it was a big blow to our district. I no longer work for the district but I was there long enough to see what a pickle they are in right now. It's bad. Really bad. Perhaps that would change a lot of peoples minds who are against it being built.

Sincerely,

Rachel Harold

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From: Lori Bennardo
To: Eric Luchini
Subject: Cosrco
Date: Monday, August 19, 2019 9:31:28 PM

This entire project has been flawed front he start. Going back to the voting process, the question on the ballot was purposely ambiguously worded so that the Citizens of Pleasanton were not sure whar yes and no actually meant as evidenced by the neighbors I spoke to who infect were against the proposed Costo store.

"No" I do not want to prohibit Big Box stores in Pleasanton and "Yes" I do. Seriously, the average voter sees "No" and thinks that it means "No" on Costco. This was ambiguous on propose so the City could get to their desired result which is to have Costco here.

There are two Costcos within a short driving distance in either direction, People move to Pleasanton for the quaint atmosphere – The first Starbucks was dreadful particularly downtown The traffic is already a nightmare and this will only exacerbate the issue. Why would anyone at the City want this for its residents? Do they not care? I have to believer no they do not – not one bit.

All I ask is that you put this on the ballot once again. I know you will have a different result,

A concerned and very distraught citizen,

Lori Bennardo
[redacted] Willowren Way
Pleasanton CA 94566

Costco does not represent the atmosphere/community of Pleasanton.

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From: Demczuk, Nick
To: Eric Luchini
Subject: Costco Needed
Date: Saturday, August 24, 2019 9:44:18 PM

Our family voted for Pleasanton Costco. So please make sure we keep our promise to build it soon

Sent from my iPhone

Click https://www.mailcontrol.com/sr/7Dj3uOPS96DGX2PQPOmvUqW_RI4xIDLr0u-JEj1oPsi3JAtvNV_Pn0bYPi9g1M2Dm-r-NJ_hoZ_VvyfHqPLkZg== to report this email as spam.

From: Wie Shing Lee
To: Eric Luchini
Subject: Costco - YES in Pleasanton!
Date: Friday, August 23, 2019 3:53:48 PM

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From: Victor Wheatman
To: Eric Luchini
Subject: Costco - YES!
Date: Thursday, August 22, 2019 11:07:34 PM

No need to read further! We've been down this road. The city has been VERY PATIENT with (no names here). Progress! Looks like the city has done its homework and has addressed the issues. We voted. All speed ahead!

Victor S. Wheatman
[redacted] Monaco Drive
Pleasanton, CA 94566

[redacted] home

Resident since 1996.

Click here to report this email as spam.

From: [redacted]
To: Eric Luchini
Subject: Costco - Yes
Date: Saturday, August 24, 2019 7:25:14 PM
Importance: High

Hi. I understand you are the person at the City Planning Division to write that we are in favor of proceeding with the Costco with gas station project at Johnson drive.

We know the property will be developed one way or another so would prefer a Costco be built there as planned. As residents of Pleasanton, we prefer the revenue we spend go to the city we live in.

Thank you,

Carmen & Douglas Floyd
[redacted] Blessing Dr (close to Johnson Dr)
[redacted]

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From: Rayan Fowler
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 3:36:18 PM

Please approve Costco's development. The citizens of Pleasanton have already voted for it. Don't let a few outspoken people change the vote.

Sent from my iPhone

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From: Barbara Cloak
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:02:02 PM

Bring it on! Our voice was loud and clear!
This is good for PLEASANTON and will provide much more than more just tax dollars! But jobs as well! The people have spoken and when the disgruntled tail tries to wag the dog!? What do we do? Stand strong and proud city of PLEASANTON
Sent from my iPhone

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https://www.mailcontrol.com/sr/1KNQZ_6M0EPGX2PQPOmvUoZ6CX_kCKjTG3xUrExs_GF6HQAki2ueOUzTG0lN6OPraiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Cathy
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:32:57 PM

We voted Costco in stop the stalling and let the building begin. I like to do my shopping in Pleasanton not Livermore or San Ramon. They should be more concerned about the traffic from all the condos being built in town not Costco were us long time residents would like to shop.
Sent from my iPhone

Click
https://www.mailcontrol.com/sr/tYGEIUqLka7GX2PQPOmvUqW_RI4xIDLrEMbUVilfsPL7p7txxcJHritiTHc_2og90lsf8vYh9l5OzrnJmt4uGw==
to report this email as spam.

From: Sue Wood
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:28:13 PM

Build it already

Click https://www.mailcontrol.com/sr/23t7mdvTxNfGX2PQPOmvUmkxeMeR4_FmQTq8rES6msb4zEGMxJ_yJnLtb179hm900lsf8vYh9l5OzrnJmt4uGw== to report this email as spam.

From: Dick Sanders
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:03:42 PM

We voted for Costco and we want Costco!!

Sent from my iPhone

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From: Trish Levitin
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:01:03 PM

Yes, we want the Costco we voted for NOW!
Trish Levitin

Sent from my iPhone

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From: Anand Kumar Sankaran
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 2:59:42 PM

I am for Costco in Johnson drive.

Sent from my iPhone

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From: Kristen Thurman
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 8:04:02 PM

Hi, I am a long time Pleasanton resident we voted for Costco! What is the hold up? Please let it go in. Thank you.

Kristen

Sent from my iPad

Click https://www.mailcontrol.com/sr/kFfBwVLOJ8nGX2PQPOmvUrTWOQPRvz4DzTIsIsShkqMx8d89hV6D-Dy34XoVuAzc0lsf8vYh9l4WkFyhp8LJ4g== to report this email as spam.

From: Keith
To: Eric Luchini
Subject: Costco
Date: Monday, August 19, 2019 11:54:57 AM

Hello Eric,

I usually don't bother or take time out of my busy schedule to comment on things such as this. BUT I'm doing so right now to say five words
"WE VOTED FOR A COSTCO"..
We vote in this country for a reason & I REALLY hope it still counts for something. For one the tax dollars this city needs to fix these crappy roads. Sunol Blvd, Stanley Blvd to just name a couple. I'm praying these signs that are up mean they are
re-paving Sunol..they tear it up I believe to do something for the ridiculous northbound ramp for stupid metering lights & leave it looking & feeling like crap. The all the crappy housing on Stanley, sane thing, tear it up & goodbye. Anyway, PLEASE keep this Costco coming & let's get it built already.

Thank you for your time,

Keith Keller - 30 year resident & business owner here in P-Town

Click https://www.mailcontrol.com/sr/_J0fosiHCYvGX2PQPOmvUqy_8K4P2-30c1iHY9q9u4rrX1iz9vnmQpWnEMAEqiTcrNbd-mx52OQVpvj_OtdP1Q== to report this email as spam.

From: Christine Mcsharry
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 14, 2019 10:59:57 AM

I think it is a good idea to build Costco on Johnson Drive. Thanks Chris Mcsharry.

Sent from my iPhone

Click https://www.mailcontrol.com/sr/RT4i5_NMn0fGX2PQPOmvUuhr9La_g-yvBhpQa-N4tWnh5zpJL0dDVoTB07bhE8iQ8I-NulT5b8KVGm43FW9a3A== to report this email as spam.

From: Michele Fourie
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 14, 2019 7:09:36 AM

Hello,
My husband and I have lived in Birdland since 1984. We love Pleasanton and always want it to be a thriving community. I do hope that Costco is allowed to open here, I think it will be good for the city with the added sales base and convenient for its residents.

Regards,
Michele Fourie
[redacted] Gapwall Court

Sent from my iPhone

Click https://www.mailcontrol.com/sr/sDCDlLXjR-HGX2PQPOmvUlHUcPnZ_qyDyzNllndwosL5axxGxoj1w3ISkNbE59pj8I-NulT5b8JOzrnJmt4uGw== to report this email as spam.

From: Lori
To: Eric Luchini
Subject: Costco
Date: Sunday, August 25, 2019 9:38:22 PM

Yes on Costco coming to Pleasanton!

Sent from my iPhone

Click https://www.mailcontrol.com/sr/hvVzBkSc8vfGX2PQPOmvUoZ6CX_kCKjTgF5vzExDu8L5wOQtYMZSR0uGxp7Wya_f1pTg-HKA0AyMQcgptJ50Pg== to report this email as spam.

From: Kumar Dhuvur
To: Eric Luchini
Subject: Costco @ Johnson Drive EDZ
Date: Friday, August 9, 2019 10:50:33 PM

Hello Eric,

My name is Kumar Dhuvur and I have been a resident of Pleasanton for the last few years. I am a strong proponent of having a Costco in Pleasanton. We are regular Costco shoppers and currently have to travel to Livermore or Danville Costcos for our weekly runs. We see that the Livermore and Danville locations are always crowded given the sizable increase in population across all tri-valley cities.

Having a Costco in Pleasanton would greatly enable regular Costco shoppers like me and others from Pleasanton spend less time shopping and also reduce emissions from having to travel 20+ miles to get to a Costco.

The referendum was held and the voters spoke resoundingly and clearly. All legal diversions and antics to impede having a Costco here is a direct attack on democracy and should be vociferously rejected.

Let's get on with it please!
Kumar Dhuvur
Pleasanton resident.

Click here to report this email as spam.

From: Sandeep Malik
To: Eric Luchini
Subject: Costco at Pleasanton
Date: Thursday, August 22, 2019 5:34:20 PM

I voted yes for Costco and still Yes for me.
Sandeep Malik
Rolling hills ln
Pleasanton

Click https://www.mailcontrol.com/sr/ziPF6SJLQ9LGX2PQPOmvUvmldA89nuwlCCCo605umaMD-F8BFJy5-0bYPi9g1M2DaiFPwDBr-Nz3Y22mGO5KhQ== to report this email as spam.

From: Venkat Gandur
To: Eric Luchini
Subject: Costco at Pleasanton
Date: Friday, August 23, 2019 7:32:48 PM

We DONT NEED COSTCO kind of store in Pleasanton. Please bring more mom and pop stores.

thanks
Akila & Venkat

Click here to report this email as spam.

From: EH
To: Eric Luchini
Subject: Costco comment. Build it!
Date: Friday, August 2, 2019 9:12:10 PM

Hi,
We've already overwhelmingly voted for Costco twice. The EIR looks great. Please build the Costco.

Eric Helmgren and family

[redacted] Black Ave
Ptown

Click
https://www.mailcontrol.com/sr/c43DHNfjkaLGX2PQPOmvUh1RF3DQzt5f5trMEXh6zM4BT54m9qJQL84bCRHLtz496YnlrTLgkmH4eW8epClCcw==
to report this email as spam.

From: James McCabe
To: Eric Luchini
Subject: Costco Comments
Date: Friday, August 9, 2019 7:51:19 PM

Mr. Luchini,
This email is to strongly support the Costco development on Johnson Dr. in Pleasanton. This development will have minimal impact on an already developed area and will provide residents with access to less expensive groceries and gasoline.Lets build it!

Warm Regards - James

James McCabe Dip Pharm (SA) RPh.

Mobile [redacted]

Click here to report this email as spam.

From: anushree
To: Eric Luchini
Subject: Costco construction
Date: Thursday, August 22, 2019 3:55:52 PM

We give our vote for Costco on Johnson dr.
Thank you .

Sent from my iPhone

Click https://www.mailcontrol.com/sr/XMh15J8w3vPGX2PQPOmvUlQqnVH2UXcW-l1wjyaUgkQ-idYIkXVSdHLtb179hm900lsf8vYh9l5OzrnJmt4uGw== to report this email as spam.

From: Robert Butler
To: Eric Luchini
Subject: Costco development
Date: Thursday, August 22, 2019 4:25:40 PM

Dear city planners, planning commissioners, and councilmembers,

I sincerely hope that after all the bending over backwards we have done, the city is able to stand up straight and complete what the voters have already told you: we want Costco built! The past year spent answering the issues raised by Mr. Sullivan in his lawsuit ought to clear the path.
Please just follow that path and get this finished.

Bob (former planning commissioner, mayor and councilmember)

Robert E. Butler
Pallesen & Butler Tax Service
11960 Silvergate Dr. Ste 201
Dublin, CA 94568
[redacted]
http://webdefence.global.blackspider.com/urlwrap/?q=AXicHcxBCgIhFAbgHzpBF3mTi0paBa0KJlq2tYfNCI6KvnQ8UPcM-g7wbTe4KeB7BbLvSk9UcqXFOM8xSI6eOC5Yj-P98RwvO60Oeg_rPzy74M7spMd38tYUEyQGNjTFilkknYahtUbpJWYtNlfH9l8BnYAf0m8mzA&Z

Click here to report this email as spam.

From: Lei Huber
To: Eric Luchini
Subject: Costco for Pleasanton
Date: Friday, August 23, 2019 6:03:05 PM

Hi,

As one of the voters who have voted for Costco for Pleasanton, I am sending this note to strongly support the plan to build a Costco in our own. The voice of majority votes should be heard. We should keep the sales tax instead sharing it with neighboring towns. It is against democracy to having to go against what the voters wants and continue spending tax payers's money to revisit this over and over for some people who for whatever their hidden agenda were against this plan.

Sent from my iPhone

Lei Huber
Residence of Pleasanton
[redacted] Oak Vista Way

Click https://www.mailcontrol.com/sr/AMLvgL2yVNDGX2PQPOmvUgEBY15Clgt11SU5fQk2g1n_Ce7Zlh-SnUuGxp7Wya_fXr1sUZZvgJ6oZTw26POg4w== to report this email as spam.

From: Lynn Reedy
To: Eric Luchini
Subject: Costco In Pleasannton
Date: Thursday, August 22, 2019 3:20:21 PM

Hi,

I voted for a Costco in Pleasanton. What is the delay? Please approve the permits so the residents can start enjoying the benefits of a Costco in our town.

Regards,
Lynn and Kevin Reedy

Sent from my iPhone

Click https://www.mailcontrol.com/sr/YQ1kmPTDFFLGX2PQPOmvUvS5rTYx7V31jOgxW476WaEU20Uu8llUawI2NJy92zbs0lsf8vYh9l5OzmJmt4uGw== to report this email as spam.

From: Sandra Brereton
To: Eric Luchini
Subject: Costco in Pleasanron
Date: Thursday, August 22, 2019 4:33:23 PM

As a longtime resident of Pleasanton, I am emailing to re-affirm my support for a new Costco to be constructed on Johnson Drive.

Sincerely,
Sandra Brereton

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/Rq_ALnP6hwrGX2PQPOmvUgxLCgtwsbOuQvlSpMvXVhST9t20KTX2kEbYPi9g1M2D0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: alicia sheehan
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 23, 2019 6:49:51 PM

I voted for Costco to come to pleasanton!!!! Don't waste my time and votes on people who didn't win the vote! That's not fair or how the voting process should go! It's sour grapes.

Click https://www.mailcontrol.com/sr/HL3W8Kguvu3GX2PQPOmvUrTWOQPRvz4D3pGhwOtPvXshnfGJ-nG-iEuGxp7Wya_fXr1sUZZvgJ6oZTw26POg4w== to report this email as spam.

From: Sheetal Khamkar
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 23, 2019 12:54:35 PM

Costco is welcome in Pleasanton.

Sheetal K.

Click https://www.mailcontrol.com/sr/MKLRRGYzugnGX2PQPOmvUrwS-HatjSAftvHpJahWAYaTu2F7tG8Uk_cTz8K0hoA-aiFPwDBr-Nyg1M3YVHc55g== to report this email as spam.

From: Leslie Howard
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Thursday, August 22, 2019 7:09:01 PM

I would like to add my vote to those who have expressed a desire to go forward with the development of a Costco on Johnson Drive in Pleasanton. I would far rather see a commercial application at that site then, say, hi density housing. If the City Council or residents of our town are concerned about the traffic and other infrastructure problems, then please stop voting in new residential development, which impacts our schools and our services, including police and fire departments, our water supply, and power grid. The proposed idea to develop an urban model on Main Street in which the businesses occupy the bottom floor and residents dwell above them is a sure fire formula for more gridlock, more lines, and more congestion in our beautiful little town. Please go forward with the development of Costco on Johnson Drive, but stick to the previous master plan for our city, and limit the number of dwellings that are approved. Thank you.
Sincerely,
Leslie Howard

Sent from my iPhone

Click https://www.mailcontrol.com/sr/F2FH514KLwXGX2PQPOmvUml-xXZX6IbqAWtR6KHHFSAR5N9rXC0nwjy34XoVuAzcaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Sylvia
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Thursday, August 22, 2019 3:32:35 PM

We SUPPORT bringing Costco to Pleasanton!

Thank you.

Sylvia Desin
Venture Sotheby's International Realty

Click
https://www.mailcontrol.com/sr/ZRLuul1xqUPGX2PQPOmvUjg7ce8j6mWJEMbUVilfsPKghvpZwZvf60zTG0lN6OPr0lsf8vYh9l5OzrnJmt4uGw==
to report this email as spam.

From: Steve Saul
To: Eric Luchini
Subject: Costco in Pleasanton (Yes, Please!)
Date: Monday, August 26, 2019 7:24:11 AM

Hi,

I saw someone on Nextdoor posted this email and asked us to make sure we send feedback by 5pm today. The post is clearly anti-Costco (they are calling for mom and pop shops there) but I wanted to let you know that our family (Muirwood subdivision) is very PRO Costco!! Thanks for your hard work/planning - can't make everyone happy ♂

-Steve

Sent from my iPhone

Click https://www.mailcontrol.com/sr/vN-FJYllfMTGX2PQPOmvUkWM85sEKD4-dHgj1PmrWLxzsdjPubeRn0uGxp7Wya_f1pTg-HKA0AzCP4z_bwErJQ== to report this email as spam.

From: Karen Newsham
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Saturday, August 24, 2019 7:14:43 PM

For the sake of the people of Pleasanton, please, please, please agree to this. It was approved 2 years ago but we are still waiting. With the influx of many new residents taking advantage of the affordable housing, and the good schools, we really need the low cost food, the extra jobs and the taxes which will undoubtedly be generated.
Sincerely,
Karen Newsham
Sent from my iPhone

Click https://www.mailcontrol.com/sr/ERxHXi1NgULGX2PQPOmvUuhr9La_g-yvcZzGEB0X-RpdY5MUuyOQFMH0sBvDS50Qm-r-NJ_hoZ_CXaTERp6oIw== to report this email as spam.

From: Tilton Gore
To: Eric Luchini
Subject: Costco in pleasanton
Date: Friday, August 23, 2019 11:42:52 AM

Don't know why its necessary to continue to discuss this issue. It was decided, we want the new Costco, get on with it already.

How about some progress.
Sent from my iPhone

Click
https://www.mailcontrol.com/sr/kC11BZdYjibGX2PQPOmvUvS5rTYx7V31F5rwC1TFDYBrVWPG_ewxqzy34XoVuAzcaiFPwDBr-NwX_sYT9IPN0A== to report this email as spam.

From: Paul & Kathy
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 23, 2019 3:27:51 PM

I agree a Costco in Pleasanton would be GREAT and no need to go on the freeway.

Virus-free. www.avast.com

Click here to report this email as spam.

From: Nirav Vora
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 23, 2019 10:53:20 AM

Dear Sir/Mam,
I am resident of Pleasanton and would like to express our support of having Costco in Pleasanton.

Thanks for the initiative.

Regards,
Nirav

Click here to report this email as spam.

From: Photographer
To: Eric Luchini
Subject: Costco in pleasanton
Date: Thursday, August 22, 2019 7:13:39 PM

I vote yes on building a costco in Pleasanton!

Click here to report this email as spam.

From: Rob BRENT
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Thursday, August 22, 2019 5:42:24 PM

Yes I believe the majority of Pleasanton residents want a Costco in town. I thought it was an accepted goal.

Isn't it destined to be at the old Clorox place on Johnson Dr facing Hwy 680?

My family remains FOR a Pleasanton Costco here.

Dr. RM Brent

[redacted]

(Pleasanton resident since 6th grade in 1966.)

Click here to report this email as spam.

From: Nancy Storch
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Thursday, August 22, 2019 5:01:49 PM

Pleasanton can benefit with a new Costco here. Finding parking and shopping at Livermore's Costco takes a lot of my time. A bunch of Pleasanton neighbors on Nextdoor are complaining about having a Costco in Pleasanton, even though most of us voted for it. I'd like Pleasanton to go ahead with the planned new Costco. Costco has much to offer.

Perhaps these naysayers are concerned with the impact on existing grocery stores close to nearby neighborhoods. If this is the main issue maybe you could do some mitigation? like — limit new Costco from selling fresh fruits and vegetables, or just cell them out doors on special days…

Nancy Storch

Click https://www.mailcontrol.com/sr/nlB9ED4t27LGX2PQPOmvUlHUcPnZ_qyDg4Fcs9VhCyMa59xygIu7QnLtb179hm90aiFPwDBr-Nz3Y22mGO5KhQ== to report this email as spam.

From: Ed Fitzpatrick
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Thursday, August 22, 2019 4:43:05 PM

I want to reaffirm that I had voted for Costco in Pleasanton and I still support building Costco on Johnson Dr.

Regards,
Ed Fitzpatrick

Click here to report this email as spam.

From: Pauline Lam
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Wednesday, August 21, 2019 9:02:34 PM

YES please !

Pauline at Beachwood

Click here to report this email as spam.

From: Mohan Pattanaik
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Wednesday, August 21, 2019 7:00:33 PM

As a Pleasanton resident, we support Costco on Johnson drive .
Thanks
Mohan Pattanaik
[redacted] sterling greens Cir

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/GAPueeUWLobGX2PQPOmvUjg7ce8j6mWJ10rwa9yVnsF4q4wybTYT_0zTG0lN6OPr0lsf8vYh9l7DexT6npRA1w==
to report this email as spam.

From: Stacey Allen
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 16, 2019 1:43:02 PM

Dear Eric Luchini,
I am in favor of building a Costco at the Johnson Drive site. The amount of revenue this would bring into the city would be tremendous. It would also decrease the amount of driving Pleasanton residence would have to travel to go to Costco. I know many people don't like the big box stores, but face it, majority of people do because of lower costs. With he housing development in this city at a staggering pace, I don't see that it would increase traffic in the area. People worry about the environmental impact of Costco but does anyone stop to think about the impact of the thousands of homes being built, the increase in commuter traffic, the crowding of our schools.
I think Pleasanton should continue with the plan to build Costco and the hotels.
Thank you for your time,
Stacey Allen

Click https://www.mailcontrol.com/sr/BH0Eb1-cLfTGX2PQPOmvUmkxeMeR4_FmRKraL_TxTxzcMQaS214eFYTB07bhE8iQDcOTw33mrF7VvyfHqPLkZg== to report this email as spam.

From: Carole Vercellino
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Monday, August 12, 2019 11:52:52 AM

"The people" voted for a Costco in Pleasanton. Built it!
Are you going to keep dragging this out until the other side wins?
The city opened Stoneridge Drive to traffic all the way to Livermore which is a nightmare for local homeowners. Commute traffic has the right away over residents and the people never got to vote on that traffic or environmental mess.
The voters of Pleasanton spoke now live up to what they want -Costco.

Carole Vercellino
Pleasanton Resident
Since 1969

Click https://www.mailcontrol.com/sr/27xUmzt6EnzGX2PQPOmvUoZ6CX_kCKjTPseY7SICu5gHtSUL4WKpxx3x1_BvWGy6euj2vRZ_U1RfcZxYauAECA== to report this email as spam.

From: Jeff Smurthwaite
To: Eric Luchini
Cc: shelleysmurth@gmail.com
Subject: Costco in Pleasanton
Date: Saturday, August 10, 2019 12:42:41 PM

Hi,

My wife and I are 30 year residents of Pleasanton. We live at [redacted] Ashwood Dr, Pleasanton, CA 94588.

We both wanted to weigh in that we support the Costco construction on Johnson Drive along with the two hotels and other shops that may arise.

This has gone on far too long. We voted for it, we want it.

Many thanks,

Jeff and Shelley Smurthwaite
[redacted]

Click here to report this email as spam.

From: Christopher Siegert
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Friday, August 9, 2019 4:39:43 PM

As Pleasanton residents near the proposed location for a new Costco in Pleasanton, we would like to voice our STRONG support for the project. Having a nearby Costco would lower our carbon footprint and save time by allowing us to avoid having to travel to Costco locations outside the city. It would also allow us to spend our money in Pleasanton to benefit our community.

I am deeply disappointed that our majority vote for this project has been blocked for so long and we feel that this project should move forward without delay.

If there is anything else we can do to support a Costco in Pleasanton, please feel free to contact us.

Thanks,

Christopher and Angela Siegert
[redacted] Valley View Court
Pleasanton, CA 94588

Click here to report this email as spam.

From: Rahul Singh
To: Eric Luchini
Subject: Costco in pleasanton
Date: Friday, August 23, 2019 12:13:30 PM

Hello - i have been hearing about costco coming to pleasanton , and that sounds a very good decision as people from pleasanton , dublin and sunol area are largely affected because of the crowding at costco livermore , it will be a good decision to have a costco in pleasanton.

Thanks
Rahul
Pleasanton

Sent from my iPhone

Click https://www.mailcontrol.com/sr/VsttOVAp5QTGX2PQPOmvUgfUspOYWKRbuzJwO6RwpCqn94-MuI4ojkzTG0lN6OPraiFPwDBr-Nyg1M3YVHc55g== to report this email as spam.

From: Blackfield, Donald T.
To: Eric Luchini
Cc: Brereton, Sandra J.
Subject: COSTCO in Pleasanton
Date: Friday, August 23, 2019 12:31:23 PM

As a longtime resident of Pleasanton, I am emailing to re-affirm my support for a new Costco to be constructed on Johnson Drive.

Sincerely,
Donald Blackfield

Click here to report this email as spam.

From: The Meyer Family
To: Eric Luchini
Subject: Costco In Pleasanton
Date: Friday, August 23, 2019 4:40:28 PM

Eric,

My name is Steve Meyer and I have lived in Pleasanton for the last 35 years. As we have seen the traffic on Highway 580 and 680 increase over the years we need to reduce the number of Cars on the freeway, Build the Costco in Pleasanton. Reduce pollution and traffic on the Freeway.

The proposed location is isolated and should not cause traffic problems for the residence of Pleasanton, Build the Costco in Pleasanton. If there are traffic issues require Costco to pay for the required road changes.

I am sure Pleasanton would enjoy the Tax revenue form Costco, Build the Costco in Pleasanton.

There will be additional employment opportunities in Pleasanton and that is good for our residence, Build the Costco in Pleasanton.

Steve Meyer
[redacted]

Click here to report this email as spam.

From: Anish Vaidya
To: Eric Luchini
Subject: Costco in Pleasanton
Date: Saturday, August 24, 2019 10:09:00 PM

Hello Eric

I have voted for having Costco in Pleasanton. I know it was overwhelmingly voted in similar way by many Pleasanton residents. Wish to see Costco opening soon in Pleasanton.

Thanks

Anish Vaidya
Pleasanton resident

Click here to report this email as spam.

From: tina fujihira
To: Eric Luchini
Subject: Costco in Pleasanton? Woo hoo
Date: Monday, August 12, 2019 4:03:30 PM

Love to have the convenience of Costco being closer.

Sent from Yahoo Mail on Android

Click here to report this email as spam.

From: Sonia Miglani
To: Eric Luchini
Subject: Costco in Pleasanton-Yes please
Date: Tuesday, August 20, 2019 8:44:16 AM

Sent from my iPhone

Click https://www.mailcontrol.com/sr/tIQVvDpbd3vGX2PQPOmvUkWM85sEKD4-58vB0QexuVR42zhzbe0dD4TB07bhE8iQMiDr-v69Wu6YO_6K2KUB-Q== to report this email as spam.

From: Manu Chauhan
To: Eric Luchini
Subject: Costco is welcomed in Pleasanton
Date: Thursday, August 22, 2019 10:23:33 AM

Hi,
My name is Muvjot Chauhan. I reside at [redacted] Grappa Pl Pleasanton, CA 94566.

As a resident of pleasanton, I want to show my support in building costco in Pleasanton.

Please let me know if I can further my support in anyway.

Muvjot Chauhan

Click here to report this email as spam.

From: Ritu Malik
To: Eric Luchini
Subject: Costco -NO
Date: Friday, August 23, 2019 4:14:12 PM

Hello
I am a Pleasanton resident and am very against the Costco on Johnson drive.
I have been a resident here since 2006 and have found this city change so much.
We have many more chains and the smaller businesses are getting pushed out.
It will increase unwanted traffic and takes away from the small businesses that give this city is charm.

Ritu Malik
[redacted] Laguna Creek Lane
PLEASANTON

Sent from my iPhone

Click https://www.mailcontrol.com/sr/x_DwLZzAPLjGX2PQPOmvUjD8rK3oGsFS-mZJWE2kxN1GDNqOhoNUfytiTHc_2og9aiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: GUSTAVO FRANCKEN
To: Eric Luchini
Subject: Costco On Johnson Dr
Date: Sunday, August 25, 2019 3:26:15 PM

Dear Mr. Luchini,

I'm COMPLETELY in FAVOR of having Costco go in on Johnson Dr. There are a lot good fiscal reasons:

1. Sales tax from the big box store will be much more than from small mom and pop businesses
2. Costco will be a stable, continuous revenue stream for the city
3. Costco will most likely signing at least a 3 -5 yr contract with the city – longevity of a business will be good for Pleasanton
4. Location is very good – right off the freeway. I would expect that will limit the amount of traffic
5. The small business leave Pleasanton as soon there leases are up – cant afford the increase
6. Running a Small business is tough and tend to come an go

The citizens of Pleasanton already voted on this and we said we want Costco. Please do what the people want. I'm aggravated the development of Costco has been delayed by "environmental impact studies" , law suits against the mayor (for having $2500 of Costco stock in his portfolio) and the like.

Thank you
Donna Francken

Sent from Mail for Windows 10

Virus-free. www.avast.com

Click here to report this email as spam.

From: Jason Doll
To: Eric Luchini
Subject: Costco on Johnson Drive
Date: Friday, August 23, 2019 7:56:34 AM

I've been following the issue online and just wanted to email that I am a resident of Pleasanton, living on Liberty Drive and I am FOR a Costco being built at the location. I previously voted in favor of this issue as well.

Thanks

Jason Doll

Sent from Yahoo Mail for iPad

Click here to report this email as spam.

From: Bill Tallon
To: Eric Luchini
Subject: Costco on Johnson Drive
Date: Sunday, August 25, 2019 3:40:02 PM

Eric Luchini,

Bring on the new Costco! We voted, we approved it...twice. Let's move off the dime and get it built. We live close enough that we are likely going to be impacted by the increase in traffic, but it's still the right thing to do.

Bill Tallon

Virus-free. www.avast.com

Click here to report this email as spam.

From: mrknowitall2
To: Eric Luchini
Subject: Costco plan
Date: Friday, August 23, 2019 10:35:16 AM

Dear sirs , please say NO to another Costco here in p-town ! Don't need more smog , traffic , bedlam . The high density housing will add to these issues (you and I know this surely) … Not to mention the "cut-thru traffic" we experience every day !

Click https://www.mailcontrol.com/sr/tqsikbw7-2nGX2PQPOmvUjD8rK3oGsFSZbyOHBkB07oejptXSUeHR0bYPi9g1M2DaiFPwDBr-NwKghm6_2a-jw== to report this email as spam.

From: David Cloutier
To: Eric Luchini
Subject: Costco Pleasanton
Date: Thursday, August 22, 2019 7:06:56 PM

I don't get it - we voted and the votes were in favor for a Pleasanton Costco. What is the issue?

We want a Costco - let's the votes count and move on!

Regards,
David Cloutier

Sent from my iPad

Click
https://www.mailcontrol.com/sr/xI2YGxfl5XHGX2PQPOmvUoZ6CX_kCKjTCmhf5TRNdNO6q9u1PespRkIAEr5-AnGZaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Nal vk
To: Eric Luchini
Subject: Costco Pleasanton
Date: Saturday, August 24, 2019 10:29:40 PM

Hi Eric Luchini,

We would like to have Costco in Pleasanton and looking forward to it since 2 years.
We spend hours driving to Costco and one of the reasons to buy a home in Pleasanton

Regards
Nalini

Click
https://www.mailcontrol.com/sr/c9JM4MfHlYHGX2PQPOmvUqW_RI4xIDLrflKC37sErjcyEAlpUXzt0ytiTHc_2og9m-r-NJ_hoZ-qQH8FWVwkvA== to report this email as spam.

From: Hsu
To: Eric Luchini
Subject: Costco Pleasanton
Date: Friday, August 23, 2019 2:31:19 PM

Hello,
I live in Val Vista and want the Costco on Johnson Ave in Pleasanton.

Regards,
Kevin

Click
https://www.mailcontrol.com/sr/_mlRZdGUKKfGX2PQPOmvUvmldA89nuwlxcUIO63qZ_zVt2jafGsRsEIAEr5-AnGZaiFPwDBr-NzUfE-mA-MlhQ== to report this email as spam.

From: Rob
To: Eric Luchini
Subject: Costco Pleasonton
Date: Friday, August 23, 2019 7:56:45 PM

Don't think we need another CostCo. They're all over the place now.

Rob

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/UA8rQxsPUK7GX2PQPOmvUgEBY15Clgt1zQ1uyng8I7v2DTJttrACJzy34XoVuAzcXr1sUZZvgJ4gL4AI7al_HQ==
to report this email as spam.

From: Vamshi Ambati
To: Eric Luchini
Subject: costco project
Date: Friday, August 9, 2019 7:36:11 PM

Hello-

I am a resident of pleasanton (live on Foothill Rd) and I support the approval for building bigbox constructions (costco) in pleasanton area.

Thanks

Vamshi Ambati
--
-Vamshi

Click here to report this email as spam.

From: Ted Dudziak
To: Eric Luchini
Subject: Costco Project
Date: Friday, August 23, 2019 9:47:10 AM

We voted for the Costco to be built in Pleasanton. Please move this project forward as the voters have mandated.

Thanks,

Ted Dudziak
[redacted] Northway Rd

Click https://www.mailcontrol.com/sr/0oJJ2Q0iLiXGX2PQPOmvUvS5rTYx7V31OkbivIUHdlrG-pdTmSq9PStiTHc_2og9aiFPwDBr-NwYNBM7q0TQEQ== to report this email as spam.

From: Soroush Hajian
To: Eric Luchini
Subject: Costco proposal
Date: Monday, August 12, 2019 5:24:17 PM

Hello.
My name is Soroush hajian and I live at [redacted] winged foot court in Pleasanton
I want to voice my dissatisfaction with your departments approach in flooding our town with new construction and in particular the COSTCO project. Do you reside in this town ? Are you ok with the Mayhan and congestion Brought about by the irresponsible approval of mega projects in our small town. OUR small town ROADS And the three small exits and entrances to and from this town (680) can not handle this load.
Have you driven around downtown in the morning hours or afternoon hours. There is a constant Gridlock.
PLEASE think twice about approving these projects. There are many approved projects that once complete , will make things worse. Let's not add insult to injury.

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/SuyCjazrqdbGX2PQPOmvUoZ6CX_kCKjTzSaFptzysXQclhsPfdHrclHLATcJ9-gNfY7cvycNGVOiyla_1rT5xQ== to report this email as spam.

From: Jay Botelho
To: Eric Luchini
Subject: Costco support
Date: Thursday, August 22, 2019 4:19:07 PM

We already voted on and approved the rezoning for the Costco. We live in a democracy and the majority spoke. Please, no further delays. Let's move on with this project, as approved. No one is happy all of the time, but the majority of Pleasanton residents want the Costco.

Regards,
Jay Botelho
[redacted] Vailwood Ct.
Pleasanton, CA

Click here to report this email as spam.

From: Ronald Simmons
To: Eric Luchini
Subject: Costco supporter
Date: Monday, August 12, 2019 2:46:40 PM

This long time resident(32 yrs) supports the "Costco" project.The people have spoken.
Ron Simmons
[redacted] Churchill Ct
[redacted]

Click here to report this email as spam.

From: Home Junnarkar
To: Eric Luchini
Subject: Costco Vote
Date: Thursday, August 22, 2019 10:36:49 PM

Hello,

Our vote "YES" to Costco in Pleasanton.

Thanks
Datta Junnarkar
[redacted]Cabonia Court
Pleasanton CA 94566

Sent from my iPhone

Click https://www.mailcontrol.com/sr/MhKaOB02OInGX2PQPOmvUgEBY15Clgt1LPxFYnN5SNyJ7ssb2TkEszy34XoVuAzcaiFPwDBr-Nxue2rhFpgg0Q== to report this email as spam.

From: Lucia Maya
To: Eric Luchini
Subject: Costco yes please
Date: Saturday, August 24, 2019 4:17:40 AM

Yes to Costco in Pleasanton

Sent from my iPhone

Click https://www.mailcontrol.com/sr/w_r8Yey0rxDGX2PQPOmvUml-xXZX6IbqQn5R8cpUsmgN-s8VrhgKrUzTG0lN6OPrXr1sUZZvgJ4c91rCvtNOsA== to report this email as spam.

From: jerry leonardini
To: Eric Luchini
Subject: Costco YES YES YES...!!!
Date: Wednesday, August 21, 2019 8:49:01 PM

This is to confirm I want Costco and I. Toed yes on Costco. This shouldn't even be an issue any longer.

Jerry R. Leonardini.

Sent from my iPhone

Click https://www.mailcontrol.com/sr/h3VCy3wXzkbGX2PQPOmvUqy_8K4P2-30OgSkVeWCfiL-MjQMasHWBkbYPi9g1M2D0lsf8vYh9l4WkFyhp8LJ4g== to report this email as spam.

From: Barry Mew
To: Eric Luchini
Subject: Costco Yes!
Date: Thursday, August 22, 2019 4:46:50 PM

Please support Costco!

Thx

Barry Mew

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/k17XZgdaTELGX2PQPOmvUlHUcPnZ_qyDCpPINqZ9Fx7MN0tSMKOhlkuGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: [redacted]
To: Eric Luchini
Subject: Costco YES
Date: Thursday, August 22, 2019 8:35:09 AM

Perhaps residents need a lawsuit to get what we voted for. Please stop the delays and allow Costco.

Thank you,

Kay Dayton (resident for 51 years)
[redacted] Hummingbird Road
Pleasanton, CA. 94566
[redacted]

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/M_aVjguiidbGX2PQPOmvUgfUspOYWKRbnD3hkgzLgOTMq9gaoxc9vUzTG0lN6OPr0lsf8vYh9l4bMAc-oOGgZg== to report this email as spam.

From: Kathleen Kalb
To: Eric Luchini
Subject: Costco YES
Date: Friday, August 23, 2019 5:21:26 PM

There are several discussions on Social Media about Costco. And we are told to email you to let you know our thoughts.
My thoughts are we already voted for this and it was voted for a Costco in Pleasanton.
I want a closer Costco and I want to keep my sales tax dollars in Pleasanton.

Kathleen Kalb
Crestline Way

Click
https://www.mailcontrol.com/sr/tQZa7fl7tgrGX2PQPOmvUgfUspOYWKRbsrIvxYTxviiOSUSdfjlhS0zTG0lN6OPrXr1sUZZvgJ74eW8epClCcw==
to report this email as spam.

From: Marilyn Hayes
To: Eric Luchini
Subject: Costco
Date: Monday, August 26, 2019 7:56:24 AM

Very much support Costco on Johnson! We need it..It will be packed shortly after opening.

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/iZObF0FF3DLGX2PQPOmvUlHUcPnZ_qyDjUG0xPHyohzp_wiivSziakzTG0lN6OPr1pTg-HKA0AzCP4z_bwErJQ== to report this email as spam.

From: Diane Padilla
To: Eric Luchini
Subject: Costco
Date: Sunday, August 25, 2019 11:04:37 PM

No Costco please!

Bad financial deal for residents!

Be a responsible fiduciary!

Diane Padilla
Concord St

Click here to report this email as spam.

From: Scott Babcock
To: Eric Luchini
Subject: Costco
Date: Sunday, August 25, 2019 12:00:17 AM

Adding a Costco to pleasanton is a huge mistake. We do not need another multinational conglomerate in pleasanton. We are not the type of city to host a company like this.

There is a Costco in Livermore that is only 15 minutes away!!!

Build more housing so our children can afford to have an apartment here for Christs sake.

Click https://www.mailcontrol.com/sr/TaGVAatxC3HGX2PQPOmvUihCLhWP7Wj9Zn0xuRFdZJt6Ymi6x3uELQI2NJy92zbsm-r-NJ_hoZ_NfN-NdwfdFw== to report this email as spam.

From: ANNE TOTH
To: Eric Luchini
Subject: Costco
Date: Saturday, August 24, 2019 10:09:22 PM

I just forced myself to stop working and sit down and compose this protest in lieu of catching up on chores. I am not for the Costco on Johnson as it will only cause more congestion, more traffic in MY neighborhood. When Stoneridge Drive was opened up to access the Outlets, aka avoid hwy 580, the traffic was increased so much more then what was told to us. I happen to live in Val Vista and my neighbors back up to Hopyard. Adding a warehouse/big box store not only causes more traffic, it will take away necessary traffic from the stores at Stoneridge Mall. Traffic that employs hundreds, many who live in Pleasanton and work to make ends meet. Not to mention the sales tax revenue diminished from lack of sales. Who wants to go to a mall where you have to deal with a ton of traffic. Just go to the outlets, 5 exits away, Livermore.

The idea of a gas station is another concern. Yes I have two gas stations on Hopyard, the Costco station will add a min of 15 pumps vs the 6 at each of the current stations. That is an environmental impact and a major attractant to more traffic.

I have lived in Pleasanton since 2001. I grew up in Hayward, lived in Fremont and have always wanted live in Pleasanton for the community, values, family friendly neighborhoods. The 'small time' feel downtown attracted my family, as it does for many. Adding a HUGE warehouse takes all of this away. Please do NOT allow Costco to build another warehouse store in my families backyard.

Thank you,
Anne Toth

"We are what we repeatedly do. Excellence, then, is not an act, but a habit."

~Harry Truman

Click here to report this email as spam.

From: shamim catrina
To: Eric Luchini
Subject: Costco
Date: Saturday, August 24, 2019 4:20:55 PM

I approve of Costco.
Sent from my iPad

Click https://www.mailcontrol.com/sr/a96u-amEhSnGX2PQPOmvUlHUcPnZ_qyDg8WBAS2R1ifiazNXz33T4vcTz8K0hoA-Xr1sUZZvgJ4AXoNDtAu6BA== to report this email as spam.

From: Kay Dayton
To: Eric Luchini
Subject: Costco
Date: Saturday, August 24, 2019 1:34:48 PM

Yes we need Costco. Did you forget? We voted for it and it was approved by the people of Pleasanton.
We don't need any more small businesses from far away lands to take any more of our jobs. Costco will offer jobs to all and our country won't need to pass out Small business loans to Costco.

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/4PbC6Tsyu9XGX2PQPOmvUoZ6CX_kCKjThCgalCWBQBP2wbplojZEsUzTG0lN6OPrXr1sUZZvgJ6ZDddCOqP2wA== to report this email as spam.

From: Lorraine Hetherington
To: Eric Luchini
Subject: Costco
Date: Saturday, August 24, 2019 12:57:35 PM

I've been a resident of Pleasanton for over 20 years and have seen many changes to our city, and I have to say that we are looking forward to having a Costco come to our town. I know a lot of my friends and neighbors also are looking forward as well. I think they will do a lot of improvements that are need too.

I hope it passes and we can get on with the building.

Sincerely,
Rick & Lorraine Hetherington

Sent from my iPad

Click
https://www.mailcontrol.com/sr/OIKihsTytCzGX2PQPOmvUgfUspOYWKRbEgCgFCcdUT6QMaVTCAH8eMH0sBvDS50QXr1sUZZvgJ6YO_6K2KUB-Q== to report this email as spam.

From: Donna
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 8:31:32 PM

Hello,
Please do whatever you can to stop Costco from moving into Pleasanton. I can't believe that people want that monstrosity to be in Pleasanton. The reason I moved here 18 years ago was because it is a small city, with small buildings, and a country feel. With Costco, we will become a cement warehouse city. Might as well live in Oakland. Costco is 5 (?) miles away in Livermore. Can't believe that is to far for some people to drive. Costco will turn Pleasanton into a crummy place: more traffic, pollution, and for what? A huge warehouse for people who are to lazy to drive to Livermore.
Thank you,
Donna Ireland

Sent from Donna I's Xfinity Connect Application

Click https://www.mailcontrol.com/sr/qHZUh7AjxTrGX2PQPOmvUqy_8K4P2-30h1NFXcPc3WTopS-rYoByODy34XoVuAzcXr1sUZZvgJ6URD1dro2FIg== to report this email as spam.

From: Carol Newman
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 7:50:56 PM

Let Costco build. It's the perfect spot for it and Costco is a good neighbor. Lots of tax revenue and it won't bother residents.

Carol Newman
Palmdale Court

Click https://www.mailcontrol.com/sr/ukix0_XIylXGX2PQPOmvUrwS-HatjSAf5yURJop6GU_UqFOU5f9Qejy34XoVuAzcXr1sUZZvgJ4gL4AI7al_HQ== to report this email as spam.

From: Amy Mann
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 6:50:03 PM

Voting yes for Costco in Pleasanton

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/NwKWxFnYeoTGX2PQPOmvUgfUspOYWKRb3pGhwOtPvXvQIufRgTzDB0uGxp7Wya_fXr1sUZZvgJ6oZTw26POg4w==
to report this email as spam.

From: Janet Dean
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 6:36:54 PM

Mr. Luchini: Regarding the issue of the new Costco store on Johnson Drive – it was put on the ballot to see what the townspeople wanted. And they voted FOR the Costco. Why is it then that the vote does not stand. Why is it still an issue? Does the vote of the people not mean anything anymore. If not a Costco, something else will go in there and heaven forbid it is more housing. We have too much housing taxing the schools, roads, and water supply. Let the Costco go in there. As a resident of Pleasanton, I voted for the Costco and I want my vote to mean something.

Sincerely,
Janet Dean

Click here to report this email as spam.

From: Aiko Mitchel
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 5:31:12 PM

Dear Mr. Luchini,
My husband and I are very much against a new Costco on Johnson Drive. We do not need more traffic congestion in our area. There' will be much traffic added at 680 off ramp at Stoneridge Drive. Please consider our quality of life in Pleasanton.

With best regards,
Robert and Aiko Mitchel

Click here to report this email as spam.

From: SATISH.SANAGAVARAPU@ORACLE.COM
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:58:12 PM

I am a Pleasanton resident and I am in favor of Costco in Pleasanton
Thanks
Satish
Valley Trails

Click here to report this email as spam.

From: James Collins
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:55:49 PM

Understand there remains an effort to block Costco from Pleasanton. It has been approved by the voters so it should go forward

Jim Collins
[redacted] woodthrush rd

Click https://www.mailcontrol.com/sr/UyORkHjmAEjGX2PQPOmvUml-xXZX6IbqeVPKN44kUQAUUgjTQc1pKEbYPi9g1M2DaiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Mark Schmitz
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:53:50 PM

I realize that this email will mean nothing since the powers that be are dead set on giving Costco millions of dollars in return for more traffic and the destruction of more small businesses in town. We don't need another Costco so close to the others. I would rather have another Workday building or something more Pleasanton friendly than a totally unneeded huge box store.

Thank you for your time

Mark Schmitz
[redacted] Alvord Way
Pleasanton. 94588

Sent from my iPhone

Click https://www.mailcontrol.com/sr/oMuhWncro_PGX2PQPOmvUgxLCgtwsbOuyjqNGeWYJu023BI_B6RPFkzTG0lN6OPraiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Suja Mathews
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:40:47 PM

Hi,
We would love to have a Costco in Johnson drive, Pleasanton.
Sent from my iPhone

Click https://www.mailcontrol.com/sr/b6TMUKZPdGXGX2PQPOmvUmkxeMeR4_FmQ0zMW9oWKJiPk3ClCBgM30IAEr5-AnGZaiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Mike O"Malley
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:23:44 PM

I'm all for a Costco in Pleasanton.

Thanks for getting them to come to our city and the taxes we will benefit by having them here!

Mike O'Malley
[redacted] Vineyard Ave [redacted]
Pleasanton, CA 94566

Sent from my iPhone

Click https://www.mailcontrol.com/sr/MkNuMKdVr-zGX2PQPOmvUikZGg4PuPFTy8OlBlG7Yeb_dQHgGw9UVkIAEr5-AnGZaiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Deb White
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 4:18:06 PM

As much as the Pleasanton people would like to keep it small and quaint, development is inevitable. Costco's have demonstrated to be good neighbours, pay above minimum wage, will generate tax dollars, and are not likely to fold in 1-3 years. They would be a great addition to Pleasanton. That area off Johnson Drive would not attract small businesses/ mom and pop shops. I feel it is in the city's best interest to have a proven/well established retail business occupy the space.
Thank you,
Debi White, Pleasanton Resident

--
Debi

"We are what we repeatedly do, excellence then is not

an act, but a habit." -Aristotle

Click here to report this email as spam.

From: lonnie chase
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 3:56:46 PM

Please heed the voters of Pleasanton and allow the Costco complex to be built.

Thanks you Lonnie Chase a resident
[redacted]

Click https://www.mailcontrol.com/sr/nfR-LYDPeezGX2PQPOmvUvmldA89nuwlSDrjNBdT_1DuwRJnw5oaCPcTz8K0hoA-aiFPwDBr-NwVpvj_OtdP1Q== to report this email as spam.

From: Suzanne Kucharewski
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 3:44:24 PM

I believe we the residents of the City of Pleasanton voted FOR the Costco.
This is the best location for this type of store and it should move forward.
Regards,
Suzanne Kucharewski

Click https://www.mailcontrol.com/sr/91rDPH-2xATGX2PQPOmvUrTWOQPRvz4DZNAwD4koqHJl5-Gt323xOMH0sBvDS50QaiFPwDBr-NwVpvj_OtdP1Q== to report this email as spam.

From: Robert Atkinson
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 3:42:32 PM

I am in favor of Costco at the recommended site.
Robert Atkinson
[redacted] Wells Street

Click here to report this email as spam.

From: Laurie
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 1:58:50 PM

Would love a Costco with gas station. Count me as a yes vote for Costco in Pleasanton.

Sent from my iPhone

Click https://www.mailcontrol.com/sr/M7SGERIRQB_GX2PQPOmvUgEBY15Clgt1ODrArGJwzYL4sy_W-t1jPEuGxp7Wya_faiFPwDBr-NyU8yB5sLY89Q== to report this email as spam.

From: [redacted]
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 12:02:30 PM

Hi Ed: Just a brief note, we are all for a Costco on Johnson Drive, the sooner the better. We thought this issue was settled a long time ago. Get it built.

Richard Small

Rosemary Martelli

[redacted] Inverness Ct

Pleasanton, CA 94588

Click here to report this email as spam.

From: [redacted]
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 11:41:48 AM

City Council of Pleasanton,

After looking at the original papers I happily voted to allow Costco in Pleasanton.

This vote passed with a large margin (there is no question that it could have been a voting problem as it was not a slim margin). With that said and even looking over the newest documentation that has been submitted, from what I see there still remains no new issues or items that would warrant any change in the outcome of the last vote.

I am very upset at all the delays that are being allowed to impact this. If something was brought up that has merit I understand it should be reviewed but if it is not true issues but just delay tactics, the powers that be should be (our council and lawyer) should note it as such and move on and not let it escalate into a major issue.

Getting a responsible, well liked Company that will be good for the community as well as bring in tax dollars is what excited people and Costco according to the voters fits that spot.

The council continually trying to make everyone happy is causing more issues and arguments in the community. Making everyone happy just isn't possible. Some people will always be on one side or another.

Please make sure our representatives uphold our voting preference and stop delaying Costco!

Regards,

Nora Perez

[redacted] Willet Way

Pleasanton, CA 94566

Click here to report this email as spam.

From: Deirdre Neely
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 11:32:04 AM

Please, no more traffic in Pleasanton. It's already a shortcut for commuters. If you want to shop at Costco 3 miles isn't too much.

Best!
Deirdre Neely
[redacted]

Click https://www.mailcontrol.com/sr/J9Uick5X6a7GX2PQPOmvUgfUspOYWKRbVlmCmckk_xCJspqi_y5dA3Ltb179hm90aiFPwDBr-NwX_sYT9IPN0A== to report this email as spam.

From: Pamela Yeaw
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 11:26:39 AM

My husband and I are for Costco

Pam and Wayne Yeaw

From: Robert Keller
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 9:01:03 AM

I would welcome a Costco store in Pleasanton.

Bob Keller
2713 Laramie Gate Cir
Pleasanton, CA

[redacted]

[redacted]

[redacted]

Click here to report this email as spam.

From: Marti Keeth
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 5:05:52 AM

Yes my husband and I voted yes to have Costco built in Pleasanton. Marti and Lonnie Keeth

Click https://www.mailcontrol.com/sr/DEsKwxX5YfPGX2PQPOmvUrTWOQPRvz4D0F_aU-R1-W3XmAZXh77c40zTG0lN6OPraiFPwDBr-NwDMGoTToeXlw== to report this email as spam.

From: Noel Yahoo
To: Eric Luchini
Subject: Costco
Date: Friday, August 23, 2019 2:26:41 AM

I am a downtown resident and I resent the vocal minority usurping the city counsel. We cited for controlled growth and a yes to a store such as Costco. Please follow the will of the majority and make this happen.

Noel Messenger, [redacted] NEAL St. Pleasanton

Click https://www.mailcontrol.com/sr/KpS3zZPb8nzGX2PQPOmvUmET9b5tVcUOINmjp09LgB0Num2PeBBh2StiTHc_2og9aiFPwDBr-NwhR_AbTPK7tQ== to report this email as spam.

From: Maria Cornellier
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 11:54:57 PM

Yes WE WANT COSTCO!!!! Please give us costco

Click here to report this email as spam.

From: Kelly Montgomery
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 9:13:00 PM

My two cents... the location that Costco is currently looking st is simply not a good corridor to place one. The traffic would be nuts there! Why not find another more suitable location?

Sincerely,
Kelly Ceglio

Click https://www.mailcontrol.com/sr/1f-POlVOSfjGX2PQPOmvUvS5rTYx7V3112FT1BrHYc0Sn-SRVynpt0zTG0lN6OPraiFPwDBr-NyZtQUzGWYsdQ== to report this email as spam.

From: DON WILSON
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 8:44:42 PM

I'm very much for proceeding with the building of Costco on the Johnson Dr. property. It was voted on and passed as something the citizens want. Stop Matt Sullivan and his gang from causing this to be delayed. We need the tax revenue and jobs it would create. They are a solid company and we need it.

Donald G. Wilson

Click here to report this email as spam.

From: Rita Ferreyra
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 8:35:18 PM

The voters have spoken. Please build it!

Click here to report this email as spam.

From: Shelly Smith
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 8:33:40 PM

Please build a Costco in Pleasanton.
Thanks
Shelly Smith
[redacted] F Saint John street

Click here to report this email as spam.

From: Marilyn Gore
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 8:25:12 PM

We have been waiting much to long. Please let Costco build!

Marilyn Gore
[redacted] Second Street Pleasanton

Sent from my iPhone

Click https://www.mailcontrol.com/sr/AjEUCiRJi0jGX2PQPOmvUvS5rTYx7V31OJLjPxYLkKq6ORg7mvyXKStiTHc_2og9aiFPwDBr-Nz3KeH4_zzvzA== to report this email as spam.

From: William Brown
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 8:02:23 PM

The vote was held. The majority voted for Costco to come to Pleasanton. When do our votes count as much as the few who are scraping up what ever they can to stop/delay what we approved by our vote? Please fight for the people who voted for Costco and to those oppose, please think about the citizens of Pleasanton and what we are spending to go to the courts that the money could be applied to benefit us all.

Sent from my iPad

Click https://www.mailcontrol.com/sr/WhI0ZVsRh9nGX2PQPOmvUvS5rTYx7V31ZTvc2CQrrz_cEYe1mDwAskuGxp7Wya_faiFPwDBr-Nz3KeH4_zzvzA== to report this email as spam.

From: The Hansen Family
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 7:28:04 PM

As an elected official, please support the fact that Pleasanton residents already voted and approved a Costco to be built in our city.

I appreciate your time.

Jennifer Hansen - Pleasanton Resident

Click https://www.mailcontrol.com/sr/44EPbgjaFP7GX2PQPOmvUvmldA89nuwlIKzCyAJ98eKjbqXWUjXR-HLtb179hm90aiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Dennis Lai
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 7:02:55 PM

Yes, I would like to see Costco built in Pleasanton. Thank you

Click https://www.mailcontrol.com/sr/OVrNKcpCx5zGX2PQPOmvUihCLhWP7Wj9XgS3t8d9IXjhdRFA4An31_cTz8K0hoA-aiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Kevin Kyle
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:57:05 PM

Mr. Luchini,
SO sorry you are having to field all these e-mails, but while I'm here, please log one more in FAVOR of Costco.
Thanks,
Kevin Kyle
[redacted] Sherman Way

Click here to report this email as spam.

From: poonam madan
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:34:32 PM

I would like to once again give my support to bring costco to pleasanton and it's tax dollars go to benefit our schools

Sent from my iPhone

Click https://www.mailcontrol.com/sr/jLEjL6PjHG_GX2PQPOmvUtVTDJsKpCsgXNHYKmcyWnIsDf5tTprjxkbYPi9g1M2DaiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Dave Clausen
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:28:44 PM

We still support Costco

Click https://www.mailcontrol.com/sr/koSPoY0XXFvGX2PQPOmvUoZ6CX_kCKjTomQHSbnD_nTExW73-sdKfkuGxp7Wya_faiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Rick"s E Mail
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:10:31 PM

My family is in favor of the Pleasanton Costco being built. Much of local business retail goes to Dublin and Livermore. Since the mall is going to change some retail areas to residential, we need to invest in bringing more retail to Pleasanton to make up for the malls losses.

Rachael and Reg Shaffer

Rachael Sent from my iPhone

Click https://www.mailcontrol.com/sr/OuWxpLVzyzDGX2PQPOmvUqy_8K4P2-300xTuxC5ODJAoldchZ7aqYitiTHc_2og9aiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Kenneth Chrisman
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:02:49 PM

Lets get it done. Sullivan shouldn't be able to rule our city by himself.

Sent from my iPad

Click https://www.mailcontrol.com/sr/BxdSGN2U8DrGX2PQPOmvUvS5rTYx7V31SeBZgLMHvj8Bw0MqNMBVckbYPi9g1M2DaiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Joyce DiPietro
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 6:01:29 PM

I won't go on about why I am for it - I am just for it !! Costco that is !!
Something else is going to be built instead to bring people and congestion - why is everyone so frightened - it's over by an industrial area !!
Jd

Click here to report this email as spam.

From: Bruce
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 5:57:06 PM

Yes, my wive and I both voted FOR the Costco.

We are getting tired of the nay sayers who keep fighting everything that is voted IN.

This is at least the third instance of people trying to over turn the voters will on a range of issues.

cease and desist for crying out loud!

Bruce & Yvonne Crawford

Click https://www.mailcontrol.com/sr/HeqA52FPh67GX2PQPOmvUihCLhWP7Wj9atj4Qb-AqUXHcpND6vOhlEuGxp7Wya_faiFPwDBr-Nz3Y22mGO5KhQ== to report this email as spam.

From: Pamela Lough
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 5:43:20 PM

Hi:
I am a Pleasanton resident and a registered voter. I voted for Costco to be built in Pleasanton, and I still support that effort. It is unfortunate that a few of our citizens are able to block the wishes of the majority in this building effort. I would just like to reaffirm my desire to see the Costco project go forward.
Thank you.
Pamela Miller Lough
[redacted] Fall Ct
Pleasanton, CA. 94566

Click
https://www.mailcontrol.com/sr/nMy0mUSGbAHGX2PQPOmvUlQqnVH2UXcW8tXO0HzvHjnE9nfjVIGCVUbYPi9g1M2DaiFPwDBr-Nz3Y22mGO5KhQ== to report this email as spam.

From: Mary Krasky
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 5:01:10 PM

Dear City Counsel,

I voted for the new Costco in Pleasanton, it is in a perfect location right off the freeway and will have little impact on traffic in Pleasanton. The Livermore Costco is very overcrowded and the gas lines are extremely long. Costco could build a gas station here with twice as many pumps. Please let them build here, we could use the jobs and sales tax revenue.

Mary Krasky
[redacted] Norton Way
Pleasanton, CA 94566

Sent from Mail for Windows 10

Click here to report this email as spam.

From: Doris Lam
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:57:22 PM

Hi,

Just to let you know we welcome Costco here in Pleasanton, and wonder why it took so long to get it started!

Costco in Pleasanton please!

The Lii Family

Sent from my iPhone

Click https://www.mailcontrol.com/sr/ixuCN5lUEJLGX2PQPOmvUuhr9La_g-yvPyFUNA1XkeJ7qYRiq8Wm4kuGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: Sharon Landau
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:56:21 PM

I am still very much in favor of a Costco going in on Johnson Drive.

sharonllandau@yahoo.com,

Click here to report this email as spam.

From: Robert Wick
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:47:27 PM

Please follow voters wishes and build a Costco in Pleasanton. It is impossible to find parking space in Livermore.
Robert Wick

Sent from my iPad

Click
https://www.mailcontrol.com/sr/fcX1yaOIrFXGX2PQPOmvUjD8rK3oGsFSzUvUlxRDo_4ZgHKawm283Dy34XoVuAzc0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: Judy Alexander
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:35:57 PM

We already voted yes on this, we shouldn't have to vote again. Just because one side lost doesn't mean they should start over fighting it.

Judy Alexander
[redacted] Beratlis Place

Sent from my iPad

Click
https://www.mailcontrol.com/sr/Grh0zuK6pwjGX2PQPOmvUjD8rK3oGsFS4LZzEC0gYSisBZLazgHvRUuGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: Ian Wotherspoon
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:26:26 PM

We voted 'YES' for Costco in Pleasanton.
Please, no more hold-up's.... Build the building and let's move forward, now!

Sent from my iPad

Click
https://www.mailcontrol.com/sr/LIW7a4LFKhTGX2PQPOmvUh1RF3DQzt5fmNc5UKqj0HtOszkwe7ULrTy34XoVuAzc0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: Jim Gill
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:22:22 PM

I am confirming that I would like to ha e Costco here in Pleasanton, as approved by us voters.
Jim Gill
Sent from my iPhone

Click
https://www.mailcontrol.com/sr/9FCikk86c2fGX2PQPOmvUoZ6CX_kCKjTN1NdHvAXS3bmq_b1ucCDmvcTz8K0hoA-0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: Nancy Pimintel
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:02:34 PM

We are Pleasanton residents who are FOR COSTCO! Please start building soon and get rid of the anti group, They are not the majority.

Nancy and Antone Pimintel

Sent from my iPad

Click https://www.mailcontrol.com/sr/8Rv5kBqhZDHGX2PQPOmvUrTWOQPRvz4Dyr3UXyQK6XnIlpdZvlTY-kbYPi9g1M2D0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: MARY B.
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:56:24 PM

I want Costco. I voted for it and still want it.

M. B. Lerch

Sent from Xfinity Connect Application

Click https://www.mailcontrol.com/sr/Ib5lDY8iwcbGX2PQPOmvUqW_RI4xIDLrVWgbxGgd4etTNgYpd75nmitiTHc_2og90lsf8vYh9l5OzrnJmt4uGw== to report this email as spam.

From: John
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:53:33 PM

Confirming my support for Costco in Pleasanton.

Sent from my iPhone

Click https://www.mailcontrol.com/sr/z-xWmArL2Y3GX2PQPOmvUgfUspOYWKRbJxpFT9j9fXnF7Hp9KU7P6MH0sBvDS50Q0lsf8vYh9l5OzrnJmt4uGw== to report this email as spam.

From: Nancy M Shriver
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 3:34:07 PM

The residents of Pleasanton voted for Costco in the Johnson Dr location. Let's get it done!

Sent from my iPhone

Click https://www.mailcontrol.com/sr/aYMzNJdvnHTGX2PQPOmvUoZ6CX_kCKjTHUVdCLUG3GSSVGEt1U8kKEIAEr5-AnGZ0lsf8vYh9l5OzrnJmt4uGw== to report this email as spam.

From: May Kay Cheung
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 1:56:14 PM

Dear Mr. Luchini,
I am writing you to voice my support for Costco coming to Pleasanton. As a citizen of the area for over a decade, I had voted twice previously for its construction. With Costco having met the environmental criteria, I see no reason for delay.

As I understand it, the most recent EIR indicated an even lesser impact than the prior study. Let's please demonstrate the proper response for businesses who wish to invest in our area, when they've met our concerns. What more as citizens can we do to move the construction forward?
Best regards,
Kay

Click https://www.mailcontrol.com/sr/P8M8etE0yAfGX2PQPOmvUuhr9La_g-yv9CGqaxVI12naPfAS0QpulTy34XoVuAzc0lsf8vYh9l5kxH4nYzTQYQ== to report this email as spam.

From: Alice Yuen
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 1:41:26 PM

As a Pleasanton resident, I just want to reconfirm that I am Pro Costco and believe it will help Pleasanton prosper!

Thank you,
Alice Yuen

[redacted] Gravina Place
Pleasanton, Ca
94566

Sent from Yahoo Mail on Android

Click here to report this email as spam.

From: Carol
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 1:17:33 PM

Please build Costco.

Sent from my iPhone

Click https://www.mailcontrol.com/sr/v2K-OwhZ9wzGX2PQPOmvUmkxeMeR4_FmflMRIDPOgP943gZ6efMmTkIAEr5-AnGZ0lsf8vYh9l5kxH4nYzTQYQ== to report this email as spam.

From: Catherine Read
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 7:03:25 AM

Hello

Both my husband and I voted for this. Why would a group of loud people be able to turn over the majority?

Please bring Costco.

Thank you,
Catherine

Click https://www.mailcontrol.com/sr/uMRCfT0BMg7GX2PQPOmvUml-xXZX6Ibqu5jKDPcVZsUsL_h5nuCYWEbYPi9g1M2D0lsf8vYh9l6sCq9I-zBdpQ== to report this email as spam.

From: Susan
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 4:29:02 AM

Hello,

My name is Susan Marie Silburn and I own and live at a home at [redacted] Delucchi Dr, Pleasanton.

Friends and I were downtown having dinner last night and the subject came up that even though we voted for a Costco in Pleasanton it looks like we will not get what we voted for. I was given your email address by my neighbors.

What has happened that something that was voted for is now not going to be built?

Respectfully,

Susan Marie Silburn

Sent from my iPhone

Click https://www.mailcontrol.com/sr/npG7D0214pzGX2PQPOmvUmkxeMeR4_FmpKuge7yxIGpUOuBXEyWwDUbYPi9g1M2D0lsf8vYh9l6JRcENOpaP7A== to report this email as spam.

From: Anjali Jhangiani
To: Eric Luchini
Subject: Costco
Date: Thursday, August 22, 2019 1:59:58 AM

Please let the cost get built in Pleasanton! We voted for it and please do not delay its project to build.
Regards,
Anjali

Click https://www.mailcontrol.com/sr/A9XYW6QrbUPGX2PQPOmvUh1RF3DQzt5f7gepAHA0ysVeQeTe1AU-dXLtb179hm900lsf8vYh9l6zR1Lppn2zgQ== to report this email as spam.

From: Laura Friedman
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 11:43:58 PM

I am not in favor of Costco in pleasanton. We have costco in livermore so that need is filled. There is enough traffic already. My vote is NO on Costco in pleasanton!

Laura Friedman
[redacted] Torlano Pl
Pleasanton
Sent from my iPhone

Click https://www.mailcontrol.com/sr/kJVMLfPeLobGX2PQPOmvUikZGg4PuPFT7yNGulo3SR7IpkBAJokid_cTz8K0hoA-0lsf8vYh9I6qE4naC2k80A== to report this email as spam.

From: j Rogers
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 9:43:26 PM

I am emailing to inquire about the building status of Costco on Johnson drive. I voted in favor of the Costco and feel it would be helpful to let the Pleasanton residents know the timeline for the new Costco. All we keep reading in the Patch or any online social media account is how the few that opposed this will continue to tie it up. When can we expect to see the building begin? Voters want to know. I for one am looking forward to the tax revenue, and jobs that Costco will bring to our city.
Thank you in advance for your time.

Julie Perez
Pleasanton resident.

Click here to report this email as spam.

From: Susan Dunnegan
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 9:22:08 PM

I am looking forward to the Costco being built in Pleasanton. Please don't let anything stop this project and know that you have the community's support.

Regards,
Susan Dunnegan

Sent from my iPhone

Click https://www.mailcontrol.com/sr/0F6bszH4-rbGX2PQPOmvUihCLhWP7Wj90GQ9roKSRgK3Zy8kl3KXEytiTHc_2og90lsf8vYh9l5-U88fPeCTtg== to report this email as spam.

From: dmunson123
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 9:15:54 PM

We welcome costco...yes build it

Sent from my Verizon, Samsung Galaxy smartphone

Click here to report this email as spam.

From: MSN Service
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 8:16:57 PM

We've had a vote and the people of Pleasanton want Costco to go in. I still support that.

Regards,
Kim Mendonca

Click https://www.mailcontrol.com/sr/Hxagbi9WIgHGX2PQPOmvUrwS-HatjSAfqYwNJlHv-ovL4tNs5JnsUkbYPi9g1M2D0lsf8vYh9l4WkFyhp8LJ4g== to report this email as spam.

From: Silvia Englert
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 7:36:32 PM

Hi,
I thought the people of Pleasanton had voted for a Costco. I would like you to know I voted FOR a Costco!
The lawsuits against should stop!

Regards,
Silvia Englert
[redacted] Shadow Ridge Court

Sent from my iPhone

Click https://www.mailcontrol.com/sr/X0U8dMywdZrGX2PQPOmvUqy_8K4P2-30Vaz8CQe3AAuS6ricTXzBFQI2NJy92zbs0lsf8vYh9l7DexT6npRA1w== to report this email as spam.

From: ROCIO ARANGO
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 7:02:23 PM

I support Costco in Pleasanton. I see no harm on businesses coming to town.
Sincerely
Rocio Arango
[redacted]Jay Ct
Pleasanton

Click here to report this email as spam.

From: Ken Hamm
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 21, 2019 6:57:42 PM

My name is Kenneth Hamm. I live at [redacted] Harpers ferry Ct. Pleasanton.

The Costco project should be built and I back the City's recommendations. Please continue with the project. We voted for it and need it. Costco will be a great asset to our City!
Kenneth Hamm

Click here to report this email as spam.

From: Nancy Pimintel
To: Eric Luchini
Subject: Costco
Date: Tuesday, August 20, 2019 5:23:25 PM

We are FOR Costco in Pleasanton. Please get it done while we're still able to drive!

Tony and Nancy Pimintel

Sent from my iPad

Click
https://www.mailcontrol.com/sr/YHdWvK7YuoHGX2PQPOmvUmkxeMeR4_FmOPCE5LSUcdEBdLGswpokMaBihnCrWi1M8GRFCriSCVHVyyfHqPLkZg==
to report this email as spam.

From: Comcast
To: Eric Luchini
Subject: Costco
Date: Monday, August 19, 2019 9:41:24 PM

Hi,

I read a long thread on Next Door started by an opponent to building a Costco in Pleasanton. I disagree, and feel that I've already voted for a Costco in an election. Not sure why the topic continues to pop up, but please note that I am in full support of our democratic process and look forward to shopping at a Costco in Pleasanton sooner than later.

Warm regards,

Ed Yoshida
[redacted] Corte Blanca

Click
https://www.mailcontrol.com/sr/dGFZwX_F1lnGX2PQPOmvUgfUspOYWKRbGxXkCGpgi3TKfnUqbGGP8qBihnCrWi1MMiDr-v69Wu4NCU1_U1Tbvw== to report this email as spam.

From: Deborah Madnick
To: Eric Luchini
Subject: Costco
Date: Saturday, August 17, 2019 11:12:03 AM

Dear Mr. Luchini,
My husband and I have been Pleasanton residents since 1994. We raised our children here and have witnessed unprecedented amounts of growth in the Tri-Valley. Because of the volume of homes, shoppers, and automobiles, we feel it is necessary to have the Costco built in Pleasanton. The Livermore location is inundated with crowds that make it hard to find parking, maneuver the isles, and fight long lines at the cashier stands.

We feel that Pleasanton has given way to many outspoken citizens over the years with the same complaints about traffic repeatedly. Usually those folks live on the west end of town. They have stopped the Las Positas off-ramp from the 680 freeway, even though it is in the original city plan and was tied to the DMV location. They fought the expansion of Stoneridge Drive, which turned into a big hoopla about nothing. Their solution was to continue to feed traffic to the east end of town by adding more left turn lanes from Santa Rita to Valley, and from Valley to Stanley Blvd. We have also had an enormous apartment complex and shopping center added on the corner of Bernal and Stanley without traffic studies or neighbor input and any outrage or campaign against it.

It is time that the west end of town be receptive to change and development in our city. We need businesses like Costco to make life easier for the rest of us who work full time, commute, and can only shop at certain times of the day and days of the week.

Please continue with the project and build the Costco. The increased tax revenue alone seems incentive enough to not pass on this opportunity. Look how Livermore is thriving with the outlet stores and restaurants. Dublin has the movie theatre, restaurants and shopping that draws us all away from Pleasanton. Enough is enough.

Thank you for your consideration.
Warmly,
Deborah Madnick
[redacted] Crestablanca Dr.

Sent from my iPad

Click https://www.mailcontrol.com/sr/fMbcjax0N7XGX2PQPOmvUrwS-HatjSAf5FTtYo6y555T2SMFNV7EgZWnEMAEqiTcndVTOnL94Jzp5oVq8TaMKA== to report this email as spam.

From: Bette Hall
To: Eric Luchini
Subject: Costco
Date: Thursday, August 15, 2019 10:38:07 PM

As long time residents and voters, we would like to express our full support in favor of building Costco in Pleasanton as planned.

Bette & Tom Hall

Sent from my iPhone

Click https://www.mailcontrol.com/sr/49sqH0f-U8TGX2PQPOmvUml-xXZX6IbqGqMWPW1do9_QZgHm1CS0zqBihnCrWi1MDcOTw33mrF7BcfXS4znW5Q== to report this email as spam.

From: Bruce Brogden
To: Eric Luchini
Subject: Costco
Date: Thursday, August 15, 2019 2:34:23 PM

Please build Costco now! We voted for it, it won, please get it started. We don't want high density housing to take over.

Thank you!

Bruce Brogden

Click here to report this email as spam.

From: L Kelly
To: Eric Luchini
Subject: Costco
Date: Thursday, August 15, 2019 1:29:27 PM

Dear Mr. Luchini,

During the initial round of council discussions, I was concerned with water rate issues involving the city and Zone 7, thus was aware of, unconcerned about, and deliberatly spent little time looking at the pros and cons.

This time I am paying more attention, and am whole-heartedly in favor of completing the Johnson Drive zoning changes and EIR in the most expedient manner possible.

Thanks to Google Maps, I learned my 7.8 mile trip to Livermore Costco would be shortened by 1.4 miles to a Costco at the proposed location in Pleasanton. Overall, it could be even more mileage savings for me, because my routine shopping includes Trader Joe's in Rosewood Shopping Center and WalMart Grocery on Santa Rita.

This will afford me a more frequent Costco experience (sure, I love their hot dogs and chicken caesar salads) to pick up all manner of goods, from gardening supplies to batteries to more reasonably priced pharmacy items. So in addition to saving mileage on my Chevy Volt, I will be able to more often take advantage of the items I regularly purchase, as well as keeping my tax dollars in my own city's coffers rather than a neighboring one.

So, please count me as strong "Yes to Costco" voice in the cacophony of dissenters.

Sincerely,
Linda Kelly
[redacted] Touriga Place
Pleasanton, CA 94566
[redacted]

Click here to report this email as spam.

From: Dave Schwartz
To: Eric Luchini
Subject: Costco
Date: Wednesday, August 14, 2019 9:08:22 AM

The reason I voted in favor of the Costco proposal was to see it be approved and move forward with construction. If two thirds of the voters were in favor of the proposal my only question is why we aren't moving forward. I am sure if two thirds opposed the proposal it would be a dead issue. Let's not let special interest groups override what the majority are clearly in favor of. Please move forward with final approval and get construction started.
Dave Schwartz, long time Pleasanton resident.

Sent from my iPad

Click https://www.mailcontrol.com/sr/WF15ZOhEepfGX2PQPOmvUrTWOQPRvz4DWYzMdiBopQHeJqeXilBadpWnEMAEqiTc8I-NulT5b8L3Y22mGO5KhQ== to report this email as spam.

From: RALPH R VIGARS
To: Eric Luchini
Subject: Costco
Date: Tuesday, August 13, 2019 8:04:08 AM

To: E Luchini

City of Pleasanton

We support the development of the proposed Costco store. Having lived in Pleasanton for 59 years it is a welcome shopping opportunity. We don't need any additional delays.

Thank you.

Sue Vigars

[redacted] Elliott Circle

Ralph Vigars

[redacted] Wells St

Click here to report this email as spam.

From: Chris Scott
To: Eric Luchini
Subject: Costco
Date: Monday, August 12, 2019 10:05:12 PM

Eric,

My wife and I are in full support of Costco on the Johnson Dr. property.

Thank you,
Chris and Debbie Scott

Click https://www.mailcontrol.com/sr/dcgdgd3O3DbGX2PQPOmvUvS5rTYx7V31W0l-0tq4_5_5tJ0DZ4DkPJWnEMAEqiTcfY7cvycNGVODL_bKPtQR4w== to report this email as spam.

From: Vallery Twamugabo
To: Eric Luchini
Subject: Costco
Date: Monday, August 12, 2019 7:21:09 PM

Hi there,
Why is this seemingly up for debate again??? Voters affirmatively voiced their opinion by voting for the construction of Costco. Why open this can of worms again? Just build the Costco and be done!

Thanks!

Warmest regards,
Vallery

Click here to report this email as spam.

From: Mark and Audrey Purnell
To: Eric Luchini
Subject: Costco
Date: Monday, August 12, 2019 6:50:48 PM

Hi There!

Just letting you know that I do NOT want a Costco in Pleasanton. And I definitely don't want to pay for it! Traffic is already a nightmare. You built the apartments. You're super-sizing Donlon. Enough already.

Sincerely,
Audrey Purnell

Sent from my iPhone

Click https://www.mailcontrol.com/sr/d9NjHyfXiBzGX2PQPOmvUgEBY15Clgt1EVtdqwBNaxc3T-xmuDY1cAG89FHd2j09fY7cvycNGVMoKRuEdgZyEA== to report this email as spam.

From: robert ryan
To: Eric Luchini
Subject: Costco
Date: Monday, August 12, 2019 3:46:31 PM

I am in favor of a new Costco in Pleasanton. I am a senior citizen and I prefer not to drive on freeway to get to other Costco's. Let's keep taxes in Pleasanton
Margaret Ryan
[redacted] Northway Rd
Pleasanton.
[redacted]

Sent from my iPad

Click https://www.mailcontrol.com/sr/4NuZIEPY9gTGX2PQPOmvUlHUcPnZ_qyDMfPSGHTtpWM98ZvLKLNAI1HLATcJ9-gNdLxmK_EYKU8KIUtpuCToCg== to report this email as spam.

From: Bette hall
To: Eric Luchini
Subject: Costco, yes!!
Date: Wednesday, August 14, 2019 4:09:00 PM

We are long time residents of Pleasanton. We voted in favor of having Costco built and we still want it built.

Tom & Bette Hall

Sent from my iPhone

Click https://www.mailcontrol.com/sr/0MHUky1klLXGX2PQPOmvUvS5rTYx7V31OhWGqbPJU2VuXlo3m0Mk0MeX7ajiTOzf8I-NulT5b8KGoJj9-I0bOg== to report this email as spam.

From: Aziz Qureshi
To: Eric Luchini
Subject: Costco.
Date: Monday, August 12, 2019 1:48:06 PM

Sixty three percent of the voters voted in favor of the Johnson drive development and it has been years and the property still sits idle. This is development Pleasanton style. One disgruntled business owner threatens to sue and the city council keels over and reverses itself. If Pleasanton does not know how to develop projects may be they should sit at Dublin's feet and learn. Look at the projects Dublin has brought to fruition and we cannot even do one. After all these years we are worried about air pollutants from the construction site? Do the pollutants flow only east to west? What about all the projects done north of 580, the Workday buildings, Dublin-Pleasanton BART station, etc. Which way were the pollutants flowing from these construction sites? What about the increased pollution by opening Stoneridge drive heading east?
It is time for the City to move on and approve the Johnson Drive development before it becomes a laughing stock of the Bay Area.

Aziz Qureshi
Long Time Pleasanton Resident

Click here to report this email as spam.

From: Laurie Robertson
To: Eric Luchini
Subject: Costco.
Date: Thursday, August 22, 2019 2:54:43 PM

We voted now follow through!

> Sixty three percent of the voters voted in favor of the Johnson drive development and it has been years and the property still sits idle. This is development Pleasanton style. One disgruntled business owner threatens to sue and the city council keels over and reverses itself. If Pleasanton does not know how to develop projects may be they should sit at Dublin's feet and learn. Look at the projects Dublin has brought to fruition and we cannot even do one. After all these years we are worried about air pollutants from the construction site? Do the pollutants flow only east to west? What about all the projects done north of 580, the Workday buildings, Dublin-Pleasanton BART station, etc. Which way were the pollutants flowing from these construction sites? What about the increased pollution by opening Stoneridge drive heading east?
> It is time for the City to move on and approve the Johnson Drive development before it becomes a laughing stock of the Bay Area.
>
> Laurie Robertson

50 year pleasanton resident

Click here to report this email as spam.

From: JEFFREY MANCHESTER
To: Eric Luchini
Subject: COSTCO
Date: Monday, August 12, 2019 12:45:39 PM

For the record I am totally behind the plan to build a Costco store here in Pleasanton. I have been a resident since 1973 and have watched the city grow in a planned and purposeful way. This proposal continues that approach with effective use of the land, tax income, and services that benefit the residents of Pleasanton.

I first visited the town in 1965 with my college room-mate who lived here. I saw Pleasanton when it was a quiet, rural town. It no longer is and cannot be returned to anyone's childhood memory. I support the planning that the city does and fear that if every new approach is subjected to unending protests we may well wind up with something none of us want; poorly planned and ineffective changes.

I vote YES on Costco.

Jeff Manchester

Click here to report this email as spam.

From: ram Malik
To: Eric Luchini
Subject: costco
Date: Friday, August 23, 2019 4:26:23 PM

I am writing in favor of costco at johnson drive.
we have been waiting for years for costco to move in pleasanton. it is very suitable place for costco.
Ram Malik
Rekha Malik
[redacted] Brookline Loop, Oleasanton ca 94566

Click here to report this email as spam.

From: [redacted]
To: Eric Luchini
Subject: Costco
Date: Tuesday, August 27, 2019 1:24:39 AM

Costco put the tires on wrong on my car in 1998. In doing so, we rolled 5 times. My husband was killed and my 14 year old daughter paralyzed. My youngest and I were severely injured.
What do you think my vote would be to this so called discount everything store coming to Pleasanton after living here since 1980????
I guess you can imagine.....

Elaine

Sent from my iPhone

Click https://www.mailcontrol.com/sr/K1MXcWPWx1LGX2PQPOmvUvS5rTYx7V31ch7zW4SeRmCBJqzXA9fpA_cTz8K0hoA-NflrDO00Y2iZtQUzGWYsdQ== to report this email as spam.

From: Randy North
To: Eric Luchini
Subject: Costo project
Date: Friday, August 23, 2019 4:11:08 PM

Hello,

I am in support of having the local Costco development completed. I would like to see more jobs available and tax dollars for the city to use for new schools or school improvements.

Thank you,

Randy North
[redacted] Palomino Dr, Pleasanton, CA 94566

Click here to report this email as spam.

From: Natalia Becerra
To: Eric Luchini
Subject: emailing to support Costco
Date: Thursday, August 22, 2019 4:39:34 PM

To Whom it May Concern,
I'm writing this message to express my support to build a Costco in Pleasanton.
I was under the impression this issue was settled but, just in case, I'm sending this message.
Thanks!
Natalia Adams
[redacted] Wild Flower Lane, Pleasanton, CA 94566

Click here to report this email as spam.

From: Naveed Khan
To: Eric Luchini
Subject: FW: Costco
Date: Friday, August 23, 2019 1:19:02 PM

Dear Mr. Luchini,

As a resident of Pleasant in Stoneridge Martin neighborhood, I strongly oppose building a Costco in Pleasanton. Costco store doesn't go with social values and the culture of Pleasanton. It will be a noise, congestion, pollution and crime disaster for the city. The city of Pleasanton is already bursting based on high-density housing.

Sincerely,

Naveed Khan
[redacted] Huff Drive
Pleasanton, CA 94588
Tel: [redacted]

Click here to report this email as spam.

From: ALAN and PRISCILLA BLAIR-MOONSAMY
To: Eric Luchini
Subject: Fwd: Costco
Date: Monday, August 19, 2019 8:35:49 PM

Sent from my iPhone

Begin forwarded message:

> **From:** ALAN and PRISCILLA BLAIR-MOONSAMY [redacted]
> **Date:** August 19, 2019 at 8:27:11 PM PDT
> **To:** eluchini@cityofpleasanton.gov
> **Subject: Costco**
>
> Dear Mr Luchini,
>
> We were told that you are interested in receiving emails from residents regarding a Costco in Pleasanton. We feel that the majority of residents voted for it and we did too. We are hoping that it will happen soon as there seems to have been a very long delay. Pleasanton residents are swamping out the Livermore/Danville Costcos and it is almost impossible to find parking there. If so many pleasanton residents are shopping at costco, why not have one here so the city benefits as well as the residents. Hope it will happen soon.
>
> Thank you,
>
> Priscilla Blair.
>
> Sent from my iPhone

Click here to report this email as spam.

From: Marcia Black
To: Eric Luchini
Subject: Fwd: Undeliverable: Costco
Date: Monday, August 12, 2019 11:41:18 AM

Please support Pleasanton Costco

---------- Forwarded message ---------
From: <postmaster@cityofpleasantonca.gov>
Date: Mon, Aug 12, 2019 at 11:09 AM
Subject: Undeliverable: Costco
To: [redacted]

From: Andy Shockley
To: Eric Luchini
Subject: I support Costco in Pleasanton
Date: Wednesday, August 21, 2019 8:24:40 PM

I had heard that there were continuing special interests trying to twart the will of Pleasanton residents who have already overwhelmingly voted to support the building of Costco in Pleasanton. I just want City Officials to know that we expect the building to be completed per our votes and not stopped by special interests. We have voted and will hold our officials accountable.

Thank you,

Andy Shockley
Pleasanton resident for 24 years

Click here to report this email as spam.

From: Michael Sharnet
To: Eric Luchini
Subject: I support the JDEDZ
Date: Friday, August 23, 2019 10:48:53 AM

HI Eric,

I just want to provide my feedback on the JDEDZ including the proposed Costco and additional hotels.

I fully support the development of Johnson Drive. As a resident of the Val Vista subdivision I fully understand the impacts to traffic and I feel the increase in traffic, noise and minor pollution changes are well worth the development of this site.

Please add me as a supporter. And I voted No on MM.

Thank you,
Michael Sharnet
[redacted] Alvord Way, Pleasanton, CA 94588

Click here to report this email as spam.

From: vikisamardzic@gmail.com
To: Eric Luchini
Subject: I support to build Costco in Pleasanton
Date: Thursday, August 22, 2019 12:08:29 PM

I would really like to have a Costco built in Pleasanton.
It is tiring to drive to Livermore or Danville.

Regards,
Mohr Park resident

Click https://www.mailcontrol.com/sr/tbFlnZfOZSDGX2PQPOmvUihCLhWP7Wj9wBq0FBmUK-UMURbb-iYjmkzTG0lN6OPr0lsf8vYh9l4zGm2rSK1dVQ== to report this email as spam.

From: Steve Y
To: Eric Luchini
Subject: I vote for a Costco in Pleasanton
Date: Thursday, August 22, 2019 2:55:38 PM

Hi

It will be so convenient to have a Costco in Johnson drive area.

I voted YES

Best Regards

Steve

Click
https://www.mailcontrol.com/sr/z8uIqgMNk0rGX2PQPOmvUqW_RI4xIDLrrwhtvYgX2byXdTvpHoV5MitiTHc_2og90lsf8vYh9l7X405xsHCs_A==
to report this email as spam.

From: Pamela Ellis
To: Eric Luchini
Subject: I voted for Costco in Pleasanton
Date: Thursday, August 22, 2019 7:55:07 PM

Hi there,

Did I hear correctly that our Costco has been challenged again?! This is really crazy when the citizens of a city vote for something and it passes, and then small organizations, who don't represent us, tries to push the rest uf us around and cost us money in the process.

Just want to reemphasize my vote.

thank you
Pamela Ellis
resident of Pleassnton,CA

Sent from Outlook Mobile

Click here to report this email as spam.

From: Janice Collins
To: Eric Luchini
Subject: I voted to have a Costco in PLEASANTON
Date: Thursday, August 22, 2019 7:19:18 PM

Please respect my vote and the decision of the majority.

Janice Collins
[redacted] Woodthrush Rd.

Click https://www.mailcontrol.com/sr/kY083UVvmkfGX2PQPOmvUoZ6CX_kCKjT5VQs6PC-QIC8MhZ2kseRFQI2NJy92zbsaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Jan Schieberl
To: Eric Luchini
Subject: I welcome Costco in Pleasanton
Date: Thursday, August 22, 2019 6:19:29 PM

There are so many people in this area that the other Costcos are always very crowded. We can use another Costco. We don't need any more high-density housing.

Click here to report this email as spam.

From: Diana Pay
To: Eric Luchini
Subject: I welcome Costco to the City of Pleasanton
Date: Thursday, August 22, 2019 4:18:11 PM

I welcome Costco to the City of Pleasanton

Diana Pay

Click here to report this email as spam.

From: Saradha Rajagopalan
To: Eric Luchini
Subject: In favor of Costco in Pleasanton
Date: Friday, August 23, 2019 5:25:11 PM

Sent from my iPhone

Click https://www.mailcontrol.com/sr/cs1NL6R21o3GX2PQPOmvUrwS-HatjSAfE4ejsIxQh4BWkaTyCHr-5Dy34XoVuAzcXr1sUZZvgJ74eW8epClCcw== to report this email as spam.

From: Melanie Coronel
To: Eric Luchini
Subject: In support of Pleasanton Costco
Date: Wednesday, August 21, 2019 7:19:48 PM

Hello,

My family and I own our home here on Pleasanton and are in support of a Costco being built on Johnson. We love the prospect of income and job opportunities coming into our city. I shop at Dublin and Danville Costcos and think it would be convenient to shop within my town.

Thank you for your consideration,
Melanie
Vineyard Ave

Click https://www.mailcontrol.com/sr/GKUdOpgFWxnGX2PQPOmvUihCLhWP7Wj9xNcoHIuylfYYxxFotqfl4UIAEr5-AnGZ0lsf8vYh9l7DexT6npRA1w== to report this email as spam.

From: inhokim
To: Eric Luchini
Subject: JDEDZ Costco
Date: Tuesday, July 16, 2019 10:15:29 PM

Hi

Can we finally see Costco coming in our city? I and my wife are tired of driving to either San Ramon or Livermore Costco. We are sick of people opposing Costco due to environmental reasons. More cars are on highways now without Costco anyway. We add more traffic by driving other Costco.
Anyhow our whole family members support Costco coming this town as soon as possible.

Thanks for all your work.

Inho Kim
[redacted] Massey Court

Sent from my T-Mobile 4G LTE Device

Click here to report this email as spam.

From: Carol Raimondi
To: Eric Luchini
Subject: Johnson drive development
Date: Saturday, August 10, 2019 2:57:02 PM

As a 38 year resident,I support the proposal for commercial investment - Yes on Costco. Pleasanton needs tax dollars to improve our town.
Sent from my iPhone

Click https://www.mailcontrol.com/sr/KZYooRNvMozGX2PQPOmvUkWM85sEKD4-43YVYSaU88R-qRcjEiZ8nVJVnAyGpyOXdk295XWOAukhR_AbTPK7tQ== to report this email as spam.

From: Steve Van Dorn
To: Eric Luchini
Subject: Johnson Drive Economic Development Zone Supplemental Environmental Review
Date: Friday, August 16, 2019 2:03:35 PM
Attachments: image001.png

Hello Eric,
This email is in response to the City's request for comments on the Johnson Drive Economic Development Zone (EDZ) new supplemental air quality analysis and other environmental analyses. The Pleasanton Chamber of Commerce strongly supports this project for the overall positive impact it will have on the City of Pleasanton. When the zone is completely built out, the City could realize as much as $2 million in new general fund revenue while the school district could receive as much as $277,000 per year! This is the type of economic development we need in the City of Pleasanton.

Furthermore, the EDZ will transform an under-utilized area of the city into a thriving commercial corridor that capitalizes on its location at the intersection of the 580 and 680 freeways. It will create opportunities for new uses and services in our community, generating new tax revenue to support City services and programs without increases taxes to businesses and our residents. Additional traffic on Johnson and Stoneridge Drive will be mitigated with over $20 million being invested to upgrade and expand these access points to the EDZ.

We look forward to speaking in support of the EDZ as it is reviewed by the Planning Commission and City Council. Thank you including our comments as part of the Supplemental Environmental Review.
Regards,

Steve Van Dorn, IOM
President/CEO
Pleasanton Chamber of Commerce
777 Peters Avenue
Pleasanton, CA 94566
steve@pleasanton.org
www.pleasanton.org
925-846-5858 ext. 204

PLEASANTON CHAMBER of COMMERCE

Click here to report this email as spam.

From: Elite & Gordon Stewart
To: Eric Luchini
Subject: Johnson Drive Economic Development Zone
Date: Friday, August 23, 2019 4:41:37 PM

ATTN: Eric Luchini, Associate Planner, City of Pleasanton Planning Division

Thank you for the opportunity to comment on the results of the latest analysis. I fully support the plan as proposed by the City including the construction of the Costco store.

The only surprise in the latest reports was the Greenhouse Gas Analysis that concluded no significant effect on the environment. Many Pleasanton residents shop at the Livermore Costco (Costco would know the exact numbers). They are obviously going to shop at the closest Costco. This means less total car travel and less overall pollution from car travel. This is also a great use for the property. Few people want to buy housing near the intersection of two freeways and a sewage treatment plant.

This has been almost 5 years in the planning with overwhelming support from the referendum several years ago. I very much appreciate City Council's efforts and this delay is no fault of the City. While we certainly want input from all parts of the population, one has to wonder about our competitiveness on an international stage when it takes over 5 years to get a final decision on a single project. Somehow we need to become a bit more nimble before rigor mortis sets in.

Gordon Stewart
[redacted] Camino del Lago
Pleasanton, CA 94566
(for 21 years)

Click here to report this email as spam.

From: Colleen Cook
To: Eric Luchini
Subject: Johnson Drive Economic Zone
Date: Thursday, August 22, 2019 9:35:32 PM

Dear Mr. Luchini,

I am writing to you to urge you to fulfill the will of the majority of Pleasanton voters and get building started in the Johnson Drive Development Zone. It will have less impact on north Pleasanton than the Donlon expansion.

The environmental studies are in and building Costco will not adversely impact our environment. And it will keep the money in Pleasanton. I have a teenage athletic boy and I needed that Costco built when we voted for it. Please stop a minority, who simply oppose modern Pleasanton, from continuing to block this project.

Sincerely,

Colleen Cook
[redacted] Inglewood Drive
Pleasanton, CA

Sent from Yahoo Mail for iPhone

Click here to report this email as spam.

From: Kellie Collier
To: Eric Luchini
Subject: Johnson Drive economic zone
Date: Tuesday, August 13, 2019 6:56:16 PM

Mr. Luchini

I have a traffic concern about allowing a large retail store on this site. The Stoneridge/Johnson Drive intersection in its current format is too close to the 680 freeway for traffic to flow smoothly.

Northbound traffic on 680 doesn't have much space to turn right then queue up to turn left on Johnson. This will cause backups all the way down the freeway ramp and potentially onto the freeway.

Southbound traffic on 680 already backs up merging with cars trying to enter 680 from eastbound 580. This is going to get worse with additional cars trying to exit at Stoneridge from both southbound 680 and eastbound 580. Once the cars make it to the ramp there will be back ups of cars waiting to turn left onto Stoneridge.

Traffic eastbound on Stoneridge has to negotiate three signals to cross the bridge and turn left on Johnson Drive. There is not much room on this bridge for cars to queue up waiting to make it to the next signal. Cars coming eastbound on this bridge will be competing with the cars trying to exit from northbound 680 to get into that too-short left turn lane onto Johnson Dr.

Cars leaving Costco that want to turn right from Johnson Dr onto Stoneridge are going to back up waiting their turn. There is already a big slowdown trying to enter northbound 680 there, merging with those trying to get on eastbound 580. It's going to happen all the time now, instead of just the peak commute hours.

I can't imagine how you can mitigate this in the space that is available there. Maybe if you take some of the water district's property and move the whole interestion further east this could work. Otherwise I don't see a way to not have a huge impact on the traffic.

I have no objection to Costco, but I don't think the intersection of Stoneridge/Johnson Drive can handle the stress of all the additional car trips.

Thank you,

Kellie Collier
Pleasanton, CA

Click
https://www.mailcontrol.com/sr/uOQfwL0dVDLGX2PQPOmvUikZGg4PuPFTIRQjKtSSQ7J4oNlPweDDLFHLATcJ9-gN8I-NulT5b8I5N50IUBelLw== to report this email as spam.

From: Claire Barouh
To: Eric Luchini
Subject: Johnson Drive EDZ
Date: Thursday, August 15, 2019 2:32:56 PM

I am in full support of moving forward with the Johnson Drive EDZ.

The voters have spoken. It is time to move forward.

Sincerely ,

Claire Barouh

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/tZxL7gOvwSLGX2PQPOmvUmET9b5tVcUOpeo1_g8LJxywxRQyvZ0H5cpyUoJ1xIE9x2BmN5FCZmrJaydNu2tBwg==
to report this email as spam.

From: Carolyn
To: Eric Luchini
Subject: let"s fast track Costco
Date: Saturday, August 17, 2019 4:34:16 PM

The citizens of Pleasanton have waited too long for the voter approved project to proceed. The environmental studies show minimal impact. This project is no different environmentally than the multitude of projects built in our city over the last 1-3 years. Please approve this project and let it proceed. Thank you.

Carolyn Garner
[redacted] Camino Casa Buena
Pleasanton, CA

Click https://www.mailcontrol.com/sr/kd1qaciHLU7GX2PQPOmvUrwS-HatjSAfLzM3fYoP-Dt67oOyf9pdTR3x1_BvWGy6ndVTOnL94JwWkFyhp8LJ4g== to report this email as spam.

From: Nada peric
To: Eric Luchini
Date: Friday, August 23, 2019 4:27:22 PM

Yes Costco Yes

Click here to report this email as spam.

From: Cora Fuentes
To: Eric Luchini
Date: Friday, August 23, 2019 2:05:45 PM

FRANK AND CORA FUENTES, VOTED FOR COSTCO.

Click here to report this email as spam.

From: jake garrido
To: Eric Luchini
Date: Friday, August 23, 2019 9:41:11 AM

Please follow the voters wishes and allow Costco to build on the old clorex site.

Click here to report this email as spam.

From: iinman
To: Eric Luchini
Date: Thursday, August 22, 2019 8:28:30 PM

Yes on Costco

Click here to report this email as spam.

From: Bruce Levitin
To: Eric Luchini
Date: Thursday, August 22, 2019 4:42:39 PM

Please approve the new Costco as we did when we voted on it last year.

Thank You,
Bruce

Click https://www.mailcontrol.com/sr/Bw7dmFfhsKHGX2PQPOmvUuhr9La_g-yvL-xbiHpKmfhzv3KhGHLzkfcTz8K0hoA-0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: Nada peric
To: Eric Luchini
Date: Friday, August 23, 2019 4:41:25 PM

Yes Costco

Click here to report this email as spam.

From: Harish Monga
To: Eric Luchini
Subject: My vote is in favour of Costco in Pleasanton
Date: Saturday, August 24, 2019 5:39:00 PM

Thanks
Harish Monga

Sent from my iPhone

Click https://www.mailcontrol.com/sr/1xVKlgF5KzzGX2PQPOmvUqW_RI4xIDLrDG_rqZZaU_hZPO1fPrJTgUzTG0lN6OPrm-r-NJ_hoZ-zbAWAmKJQAw== to report this email as spam.

From: Mudigonda Mallikharjuna Rao
To: Eric Luchini
Subject: Need costco in Pleasanton
Date: Friday, August 23, 2019 4:42:27 PM

Hi,

we need costco in our pleasanton.
There is a lot of demand that it can supply.
Residents from pleasanton, sunol and dublin can go to plesanton instead of driving all the way to Livermore.

Rgds
Mallik
West Pleasanton

Click here to report this email as spam.

From: Jen Moffat
To: Eric Luchini
Subject: New Costco in Pleasanton
Date: Monday, August 12, 2019 12:49:03 PM

Hello:

I am very much in favor of building a new Costco in Pleasanton. I feel this would be a great addition to our community. Reading the paper today, I see no permanent problems. As for the Pleasanton Citizens for Responsible Growth!! I supported this group when we moved to this town 30 years ago. At the time they worked hard to keep a moratorium on building. But with the addition of all the new condos, apartments, etc., on every available piece of land in the city, I no longer agree with what's going on in our town. I really wonder what will happen when we have another drought.

Thank you,

Jennifer Moffat
[redacted]

Click here to report this email as spam.

From: James Masterson
To: Eric Luchini
Subject: New Costco
Date: Thursday, August 22, 2019 4:03:20 PM

It was the voters choice. Let's get it done without further delay.
Thank you.
James & Mary Masterson
3419 Gravina Place
Pleasanton, CA 94566

Sent from my iPhone

Click https://www.mailcontrol.com/sr/duFOUNsyRDHGX2PQPOmvUrwS-HatjSAfpRiFqc8i7fm3-dc-Vzle4UbYPi9g1M2D0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: William Pruiksma
To: Eric Luchini
Subject: No Costco in Pleasanton
Date: Friday, August 23, 2019 1:16:19 PM

Attn: Eric Luchini, Associate Planner, City of Pleasanton Planning Division

As a 35 year Pleasanton resident I am **against** allowing a Costco in Pleasanton.

Thank You.

William Pruiksma
[redacted] Goldcreat Circle
Pleasanton, CA
94566

Click here to report this email as spam.

From: katie parr
To: Eric Luchini
Subject: No Costco
Date: Sunday, August 25, 2019 8:48:29 PM

City Planning:

I am against seeing Costco being built in Pleasanton and think that we can do better with planning for a better more sustainable community with more progressive planning.
Is a giant box store really the best that we can do? At what point do we become more proactive and strategic with our planning.

My questions:

Could Costco be evaluated to go in the "ghost mall" which the antiquated Stoneridge Mall is becoming?I am sure that there are political issues but what if a solution could be brokered in the JCP store area?

Has anyone from your team looked into the future shopping trends projected within the next 5 years?
Online shopping vs actually visiting a big box store.The shopping experience seems to be changing rapidly-a generational issue to be evaluated.

Thank you for evaluating these topics in you planning.

Regards,
Katie

Sent from my iPhone

Click https://www.mailcontrol.com/sr/9BAJ0H9rbAjGX2PQPOmvUoZ6CX_kCKjT2NkrlZlVWsepABfOklwZ40bYPi9g1M2D1pTg-HKA0AzsVggzUgwWUw== to report this email as spam.

From: William Symons
To: Eric Luchini
Subject: No costco
Date: Friday, August 23, 2019 8:51:35 PM

---

not a positive addition to the community! no personal connection to the cities they build in, will they support our community events? No mistake
They want to take our high median income away from local owned business, which we should ALL be supporting.
Remember its all About their profits, Not the cheap bulk tv's and toilet paper
Regards,
William Symons
[redacted] shadow hills ct

Click https://www.mailcontrol.com/sr/YujGoaU-uc_GX2PQPOmvUj_GOBh06pKKZ3tVqV7la2BZxeptng0mJCtiTHc_2og9Xr1sUZZvgJ6URD1dro2FIg== to report this email as spam.

From: Samantha Watt
To: Eric Luchini
Subject: No on Costco
Date: Friday, August 23, 2019 4:18:56 PM

Hello,

I am one of the many Pleasanton citizens who OPPOSES Costco setting up shop in Pleasanton.

Thanks

Samantha W

Sent from my iPhone

Click https://www.mailcontrol.com/sr/Z9vR_0vgkkTGX2PQPOmvUihCLhWP7Wj9r2ArQ3JPKLdm7Y-pA3UvpsH0sBvDS50QaiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Hem Korubilli
To: Eric Luchini
Subject: Opposed to Costco
Date: Friday, August 23, 2019 10:11:34 AM

Hello Mr. Luchini,

I am a resident of Pleasanton at [redacted] Sanderling Way and we strongly oppose the Costco on Johnson dr.

Here are the reasons:
- we have 2 Costco's within a short driving distance
- let's bring in mom n pop stores and restaurants
- Costco doesn't do much for local economy and well being of local residents
- permit a retail shopping with a small park or square where families can come for dinner, ice cream and a stroll
- I don't want any more traffic increases on Hopyard, Stoneridge roads

Thank you,
Hem Korubilli

Click https://www.mailcontrol.com/sr/cgCxy3HbyafGX2PQPOmvUlHUcPnZ_qyDOm8fsTaVqBCs5K3SMJyVIcH0sBvDS50QaiFPwDBr-NwKghm6_2a-jw== to report this email as spam.

From: GREGG CHRISTMAN
To: Eric Luchini
Subject: Pleasanton Costco - Build it please
Date: Tuesday, August 13, 2019 11:00:37 AM

Hi Eric,

I saw the article in the East Bay Times about the Pleasanton Costco and just wanted to let you know that I support a Costco being built in Pleasanton.

Thanks and best regards,

Gregg Christman
[redacted] Corte Altamira
Pleasanton CA 94566

Click here to report this email as spam.

From: sr sr
To: Eric Luchini
Subject: Pleasanton costco - yes
Date: Thursday, August 22, 2019 9:10:50 AM

Yes, we do need a Costco in pleasanton. We need to keep the tax monies in Pleasanton and not keep giving it to Livermore or Danville.

Thx

Click here to report this email as spam.

From: Paul Paradiso
To: Eric Luchini
Subject: Pleasanton Costco
Date: Thursday, August 22, 2019 4:16:47 PM

We voted for the Costco Pleasanton now build the
Pleasanton Costco

Click
https://www.mailcontrol.com/sr/gf0mY9UfdtfGX2PQPOmvUjD8rK3oGsFSAwebHv_iZWPW39yBDIhoEUuGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg==
to report this email as spam.

From: Randy North
To: Eric Luchini
Subject: Pleasanton Costco
Date: Thursday, August 22, 2019 7:09:49 PM

I support the Costco development for the jobs and taxes to help pay for schools.

Randy North
[redacted] Palomino Drive

Click
https://www.mailcontrol.com/sr/BV7qfOt31x3GX2PQPOmvUikZGg4PuPFT8sYsPTjYzre3TDwFNkvV6wI2NJy92zbsaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: STANLEY HURD
To: Eric Luchini
Subject: Pleasanton Costco Effect on Enviornment
Date: Monday, August 12, 2019 9:05:36 AM

As a resident of Pleasanton I will not have to drive all the way to Livermore or San Ramon to do my weekly Costco shopping. This will save me fuel and reduce my contribution to air pollution in the area. Multiply this by all of the Costco shoppers in Pleasanton and you have a significant reduction in freeway traffic and air polution. I definitely want to see the Costco Pleasanton project go forward.

Stan Hurd

[redacted] via de los Milagros

Pleasanton

Click here to report this email as spam.

From: Al Siegling
To: Eric Luchini
Subject: Pleasanton Costco now
Date: Thursday, August 22, 2019 11:34:56 AM

No more delays ! Bring Costco to Pton now

Sent from my iPhone

Click https://www.mailcontrol.com/sr/34bPPaV195zGX2PQPOmvUqy_8K4P2-30SVHOf31Hfh5T8ZS0EQufJzy34XoVuAzc0lsf8vYh9l6NI5tH4SJ_Mg== to report this email as spam.

From: Bill Buecker
To: Eric Luchini
Subject: Pleasanton Costco
Date: Friday, August 23, 2019 8:47:53 PM

Sorry for the late writing on the above topic. Just saw through a neighborhood email stream that the above topic had a submit time of 5pm today- August 23rd.

I'm submitting my comments a little late. This whole topic reminds me of previous encounters with small group of people wanting their way - Stoneridge being put through to El Charro. Bordering neighbors didn't want that street to be completed. Much time spent and delays due to their 'not in my backyard'. Same goes to the Home Depot on Valley - complaining about traffic - guess what - more traffic since the high density living was put in. Another example is the Walmart Neighbor grocery store - Sullivan griped about that. When will it stop.

The Costco plan on Johnson was already approved by Pleasanton voters. So it should be built and whatever improvements are required to do let it happen. Unless Pleasanton wants to undo the voters approval and do what California politicians do - they know better and cancel the project. The vote of the residents should be honored.

Bill Buecker

Click https://www.mailcontrol.com/sr/AqFBbBhhLlbGX2PQPOmvUoZ6CX_kCKjTmzWCVsELLd-DKJOpVQPi8EIAEr5-AnGZXr1sUZZvgJ6URD1dro2FIg== to report this email as spam.

From: Dara Hogue
To: Eric Luchini
Subject: Pleasanton Costco
Date: Saturday, August 10, 2019 9:28:58 PM

Please count this as a vote FOR the Costco and associated development on Johnson Drive. The Costco in Danville is just slightly further from the freeway exit there, and I find there is almost zero backup on the streets in the area, certainly does not affect the freeway on/off-ramps, nor back up the intersections. I spend far more gas and create far more pollution driving to Livermore or Danville to shop at Costco than I would create even if I needed to idle for a bit in Pleasanton waiting to get into/out of the Costco lot.

Plus, Dublin has absolutely outrun Pleasanton in terms of retail tax dollars. Wouldn't it be nice for Pleasanton to create a new sales tax source, especially since business at Stoneridge Mall seems to be declining recently? I would shop at Costco at least a few times a month, and fill my tank with Costco gas regularly, as well.

—Dara Hogue
[redacted] Calle de la Mesa
Pleasanton, CA
18-year resident of Pleasanton

Click https://www.mailcontrol.com/sr/l_8RDLTmThXGX2PQPOmvUgfUspOYWKRbVtzfV8piQPh9RCy9hnffzUukiBEajumlFicWYzxiFrQYNBM7q0TQEQ== to report this email as spam.

From: Harish Aepala
To: Eric Luchini
Subject: Pleasanton Costco
Date: Saturday, August 24, 2019 6:54:41 PM

Hello Mr Eric,

As a Pleasanton homeowner, We would **like** Costco to come up in pleasanton (Johnson Dr). It is convenient for us. It also gives city of pleasanton good revenue.

Best Regards
Harish Aepala
[redacted] BrookLine Loop
Pleasanton, CA

Click here to report this email as spam.

From: Roy And Ann Gillette
To: Eric Luchini
Subject: Please allow Costco to be built in Pleasanton
Date: Thursday, August 22, 2019 9:34:42 PM

Sent from my iPad

Click https://www.mailcontrol.com/sr/h9EUUvzBQinGX2PQPOmvUrwS-HatjSAfONfHX5Ky3vlEmUeNx18Lh3Ltb179hm90aiFPwDBr-NyZtQUzGWYsdQ== to report this email as spam.

From: Mimi
To: Eric Luchini
Subject: Please Build Costco
Date: Wednesday, August 21, 2019 3:33:24 PM

I believe the citizens already voted to have Costco built in Pleasanton. Not certain why a select few are wasting tax payers money trying to stop it. Just look at posting on Nextdoor - majority want Costco. There's a few on the fence regarding it, and even a smaller percentage wanting to stop development. Yet if Costco was built, I guarantee almost all would go there.

Mimi Edwards
Pleasanton citizen since 2003

Sent from my iPhone

Click https://www.mailcontrol.com/sr/GDanypopZ2DGX2PQPOmvUvmldA89nuwlR65xz2X4dj5NguSq4yA6LVHLATcJ9-gNdsHNg0x49sPp5oVq8TaMKA== to report this email as spam.

From: Ram Ramachandran
To: Eric Luchini
Subject: Please build Costco
Date: Friday, August 16, 2019 4:45:16 PM

Dear Mr. Luchini,

My wife and I are longtime residents of Pleasanton.

Please move forward with Costco and related projects.

Good for the City and the residents of Pleasanton.

Thank you,

Ram Ramachandran, PhD

Get Outlook for Android

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From: Matt and Maria Tracy
To: Eric Luchini
Subject: Please build Costco
Date: Thursday, August 22, 2019 9:30:04 PM

Hello,

We voted for it. Please allow building to progress now.

M. Tracy
[redacted] Fairview Ct
Pleasanton

Click here to report this email as spam.

From: Claire Jenkins
To: Eric Luchini
Subject: Please DO NOT approved Costco and gas station on Johnson Drive
Date: Friday, August 23, 2019 2:19:10 PM

This would irrevocably harm the way of life in Pleasanton. More traffic congestion, more people, interference with Pleasanton commuters -- who are already being negatively impacted by all of the building going on in the city -- all around a bad idea!

There MUST be alternative ideas for the property that would not impact the community SO NEGATIVELY.

--Claire Jenkins / Pleasanton Resident
[redacted] Black Avenue
Pleasanton, CA

_____
Claire Jenkins cell: 925-872-8251
email: msclairejenkins@yahoo.com

Click here to report this email as spam.

From: Andrew Shaper
To: Eric Luchini
Subject: Please no Costco
Date: Sunday, August 25, 2019 11:52:13 AM

Click
https://www.mailcontrol.com/sr/aIlG7FpikF_GX2PQPOmvUtVTDJsKpCsgvsk2iik9MpOZhNNK1SM0uitiTHc_2og90Rs20A_kaZuW4Hi4JZPuPA==
to report this email as spam.

From: Les Duman
To: Eric Luchini
Subject: Positive comment on the Costco moving forward
Date: Friday, August 23, 2019 12:13:40 PM

Hello Eric,

Below is my reply to a post on NextDoor which is asking folks to write to you in opposition. I'm am in favor. Good luck in getting to a point when we will actually see construction begin.

My reply post:

" Hundreds of thousands of dollars in time and resources have already been spent on this debate. For Hem: Yes. We do need sales tax dollars. We do need more jobs, we do need a stable commercial/retail community member. Costco has shown that they are a good neighbor, they provide products that the community wants and already buys from other Costcos, and as James Garrido stated, this is an ideal location for a Costco. Mom and pop stores and restaurants are good things, but that area is a horrible location for those types of business. Let's accept the decision of our elected officials, our planning commissions, the independent consultants, and the majority of our fellow Pleasanton voters."

And here is the original post:

Hem Korubilli

Costco deadline for sending your feedback is today by 5 pm

"Let the city know your thoughts re Costco on Johnson drive. Today (23rd) by 5 pm is the deadline Send email to: Eric Luchini, Associate Planner, City of Pleasanton Planning Division, P.O. Box 520, Pleasanton, CA 94566-0802, eluchini@cityofpleasantonca.gov We have 2 Costcos within 3 mile driving distance? Do we really need one more? Let's bring in small mom n pops, retail and restaurants instead. Make it walk friendly for residents with a square or park. Let's keep Pleasanton quaint!"

Les Duman

[redacted] Olive Drive
Pleasanton, CA 94588
Office: [redacted] Mobile: [redacted]
[redacted]

Click here to report this email as spam.

From: Carroll Jacoby
To: Eric Luchini
Subject: Pro Costco Voter
Date: Thursday, August 22, 2019 7:58:34 PM

Sir
I am sending this email to support the Pleasanton Costco. It was my understanding that residents, of which I am one, already voted once and the Costco was supported.

Regards
Carroll Jacoby
[redacted] Red Feather Dr
Pleasanton, 94566

Sent from my iPad

Click
https://www.mailcontrol.com/sr/x6rGoFfX1LbGX2PQPOmvUlHUcPnZ_qyD6wYMs4TAt5Ve3eydUSHmlkuGxp7Wya_faiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: mary.behrendt@comcast.net
To: Eric Luchini
Subject: Pro Costco
Date: Thursday, August 22, 2019 2:48:15 PM

Please add us to the "Support Costco Project" list. People are being so stuffy!!!

Thank you!

Mary and William Behrendt

30 year resident of Pleasanton

Click here to report this email as spam.

From: Mark Voegele
To: Eric Luchini
Subject: Pro Costco
Date: Wednesday, August 21, 2019 10:23:36 PM

I (my wife and I) still support a local Costco. We are sick of small coalitions being able to usurp the will of the voters. We voted on it. We want it.

Mark V.
Pleasanton

Sent via the Samsung Galaxy S7, an AT&T 4G LTE smartphone

Click here to report this email as spam.

From: Rajat Bhargav
To: Eric Luchini
Subject: Pro Costco
Date: Wednesday, August 21, 2019 7:18:24 PM

City Council,

I am in favor of getting the Costco in Pleasanton

Regards,
Rajat

Click here to report this email as spam.

From: rosestaz@aol.com
To: Eric Luchini
Subject: pro Costco, Johnson Drive Economic Development Zone
Date: Wednesday, August 14, 2019 12:37:58 PM

To those who may be concerned,

I spoke in favor of the Costco proposal in the Johnson Drive Economic Development Zone, & continue to hope Costco is allowed to build a store & gas station there.

I am for the project: tired of wasting time & travel to Danville or Livermore to shop at Costco; desire to keep my shopping sales tax dollars here, home in Pleasanton. Not just residents, but businesses too shop at Costco for office supplies, restaurants for food & supplies.

I think it is unlikely others will drive thru residential neighborhoods to reach Costco, as there are better routes: Stoneridge Drive, Johnson Drive, nearby Santa Rita, as well as the 580-680 interchange, all of which are currently used by others to travel to Danville or Livermore Costco locations. From other communities, Castro Valley and Sunol, internet access to the proposed site in the development will likely be their chosen routes.

Therefore, I think the site for Costco in the Johnson Drive Economic Development Zone is ideal, & will be a great addition to the economy of Pleasanton, as well as a valuable convenience to our residents & businesses. Simply, we don't need to be prevented to enjoy Costco here, instead of being forced to go to Danville or Livermore.

Sincerely, Monica Darling

Click here to report this email as spam.

From: David Cannon
To: Eric Luchini
Subject: Pro Costco
Date: Friday, August 23, 2019 12:03:11 PM

Hello,
Another vote to support Costco in Pleasanton.
Thumbs Up,
Regards,
David Cannon
[redacted] Woodthrush Rd, Pleasanton, CA 94566

Click here to report this email as spam.

From: George Vien
To: Eric Luchini; editor@bayareanewsgroup.com
Subject: Proposed Cosco store in Pleasanton
Date: Monday, August 12, 2019 8:57:02 AM

Read the article about this project in today's BANG newspaper. Feel the need to comment.

I've lived in Pleasanton for fifty-four years. When I first arrived there were about 6500 residents and no stoplights.
I would have to say that in my opinion, just about all of the expansion has been well planned out with a great degree of
thoughtfulness and of that, I am proud. I enjoy showing my visitors around our city and often frequent the establishments downtown.

I am in favor of having that Costco Pleasanton store built and feel the area in which it will be built to be appropriate.
I think the project has been planned, checked and double-checked to death. How many "impact" studies are needed?

It will bring in significant tax dollars to the city. It will not impact the downtown area.
The voters have overwhelmingly approved it at least once. How much more approval is needed?

What I find particularly interesting is just how long this group, The Pleasanton Citizens For Responsible Growth, has been
able to stall this project with ridiculous blocking moves. I'd also be interested in knowing just how many voting Pleasanton residents
are members of this group. My money says it's a tiny minority with huge personal interests.

Enough already. Let's get it done.

Click here to report this email as spam.

From: Kathy Montealegre
To: Eric Luchini
Subject: Re: Costco
Date: Thursday, August 22, 2019 4:53:18 PM

Whom it may concern,

We are asking for Costco to be built here in Pleasanton. Would rather see Costco built here then some more Apt complexes. I think this would be great for Pleasanton.

Thanks,

Kathy Montealegre (Pleasanton Resident)

Sent from my iPhone

Click https://www.mailcontrol.com/sr/-nyKkbYJKlvGX2PQPOmvUrwS-HatjSAf8Bai5sKhn5Gtx7t9mb2H9fcTz8K0hoA-0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: Ken Fehlman
To: Eric Luchini
Subject: Proposed Development Johnson Drive
Date: Monday, May 20, 2019 1:16:07 PM

Hello Eric,

I came into the planning office a little earlier today and you were out to lunch. Just wanted to inquire and get a little more public information about the proposed development at Johnson Drive to include a proposed Costco and hotel.

I was interested in the current status and timeline for public comment and project approval. Specifically, has a public scoping hearing for the new DEIR occurred yet, and/or, what is the next publicly noticed public meeting for the proposed project?

Lastly, what will the rough approval process for this be? Will it automatically go to the planning commission and then to the city Council?

I look forward to hearing from you. Thank you in advance for helping me obtain this public information.

Sincerely,

Ken

Click here to report this email as spam.

From: Eric Luchini
To: Ken Fehlman
Subject: RE: Proposed Development Johnson Drive
Date: Monday, May 20, 2019 1:52:00 PM
Attachments: image001.png
image002.png
image003.png
image004.png

Hello Ken,

Please see my responses in red below and then let me know if you have any additional questions.

Best regards,

Eric Luchini
Associate Planner, Community Development Department
D: 925-931-5612
F: 925-931-5483
eluchini@cityofpleasantonca.gov

City of Pleasanton | P.O. Box 520, Pleasanton, CA 94566

From: Ken Fehlman [redacted]
Sent: Monday, May 20, 2019 1:16 PM
To: Eric Luchini
Subject: Proposed Development Johnson Drive

Hello Eric,

I came into the planning office a little earlier today and you were out to lunch. Just wanted to inquire and get a little more public information about the proposed development at Johnson Drive to include a proposed Costco and hotel.

I was interested in the current status and timeline for public comment and project approval. Specifically, has a public scoping hearing for the new DEIR occurred yet, and/or, what is the next publicly noticed public meeting for the proposed project?
The City is not preparing a new DSEIR for the project; rather, supplemental environmental analysis is being prepared for very specific topics (Criteria Pollutants/Air Quality, Greenhouse Gas, Energy and Health Risks) in response to the CEQA challenge for the project. Upon completion, the supplemental analysis along with the original analysis for Urban Decay will be recirculated for public comment for a period of 45 days. The City is targeting an early June recirculation timeframe. Based on this, most likely, no publicly noticed meetings for the project would occur until mid to late Summer for the project. Feel free to check back with me in mid-to-late-June and I may be able to give you more specific dates.
Lastly, what will the rough approval process for this be? Will it automatically go to the planning commission and then to the city Council?
The project will follow the same approval process as last time with a recommendation from

the Planning Commission to the City Council. The City Council will make the final determination.
I look forward to hearing from you. Thank you in advance for helping me obtain this public information.

Sincerely,

Ken

Click here to report this email as spam.

From: Jonathan Doan
To: Eric Luchini
Subject: reaffirming support for costco development on Johnstone dr.
Date: Friday, August 23, 2019 1:37:07 PM

Hi, just a quick note in support of the development that I assumed was already in the works.

thanks - Jon
[redacted] Larrikeet Ct, Pleasanton

Click here to report this email as spam.

From: Howard Merrill [homerr..]
To: Eric Luchini
Subject: Still Costco
Date: Wednesday, August 21, 2019 8:59:38 PM

I voted for Costco the first time and still support it.

I'm very unhappy with delays and the possibility of overturning that vote!

Just deal with it and get it on!!!

Howard Merrill - Voter
P.O. Box [redacted]
Peasanton, CA 94566

Click here to report this email as spam.

From: Tamara Sorensen
To: Eric Luchini
Subject: Stop Costco in Pleasanton
Date: Friday, August 23, 2019 4:53:39 PM

Dear Mr. Luchini:

Please stop this Costco from moving forward.

A purposefully, poorly written measure that confused voters into voting for what they "didn't want is not what Pleasanton government is about...at least, we hope not.

Enough traffic, enough is enough.

Sincerely,

Tamara & Gary Sorensen
Pleasanton

Sent from my iPhone

Click https://www.mailcontrol.com/sr/i014zNM2EznGX2PQPOmvUtVTDJsKpCsgyjqNGeWYJu0b2KZaZKGt9sH0sBvDS50QaiFPwDBr-NyNc_rJiVGaJg== to report this email as spam.

From: Vince Wang
To: Eric Luchini
Subject: Support anew Costco in Pleasanton
Date: Thursday, August 22, 2019 9:31:09 PM

As a resident of Pleasanton and a voter, I voted for a new Costco and I still support it.

Best,
Vince

Sent from my cell phone

Click https://www.mailcontrol.com/sr/IyRmRdY4_5HGX2PQPOmvUrwS-HatjSAfpddNwUHYYvijzhnn5p1ZLnLtb179hm90aiFPwDBr-NyZtQUzGWYsdQ== to report this email as spam.

From: Saeed Sahami
To: Eric Luchini
Subject: Support Costco in Pleasanton
Date: Sunday, August 25, 2019 12:21:38 PM

Hi Eric,
As a Pleasanton residence, in 2016 I voted for the new Costco. I am still a strong supporter and would like to see Costco in our town. Thank you.
Sahami

Click https://www.mailcontrol.com/sr/5-wLUHYsbk7GX2PQPOmvUgEBY15Clgt1plfONH6rAUZGZJtr72-Jkjy34XoVuAzc0Rs20A_kaZsFoPzuIXnePg== to report this email as spam.

From: Alex Ponomarenko
To: Eric Luchini
Subject: Support Costco
Date: Thursday, August 22, 2019 7:13:07 PM

Hi,

Please support Costco construction in Pleasanton

Sincerely,
Alex Ponomarenko

Click https://www.mailcontrol.com/sr/7oqnwxKT1yjGX2PQPOmvUihCLhWP7Wj9uwaSSs-bGjxKgdQ6vpz_gEbYPi9g1M2DaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: James Woodard
To: Eric Luchini
Subject: Support for a Pleasanton Costco
Date: Thursday, August 22, 2019 7:33:12 PM

Please know, as a Pleasanton resident I support a Costco in our town.

Thank you,

James Woodard

Click https://www.mailcontrol.com/sr/VdLNjeD3fKnGX2PQPOmvUlQqnVH2UXcWDgtHivzSFYdllBuFFCsitytiTHc_2og9aiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Ken
To: Eric Luchini
Subject: Support for Costco
Date: Thursday, August 22, 2019 7:18:18 PM

Hello, as a resident Pleasanton I voted my support for the new Costco that was proposed for Pleasanton.

My understanding is the "yes" votes were in the majority and therefore the relationship with Costco should proceed and the store should be built.

I would like to understand the position of the city Council on this and if there is support for Costco in Pleasanton, in line with the majority of voters.

Please feel free to share this email with the City Council.

Thanks for your assistance.

Kind regards,

Ken Mudge
Mirador Drive

Sent from my iPad

Click https://www.mailcontrol.com/sr/Zfmt6rTy1_XGX2PQPOmvUoZ6CX_kCKjTdK2X5DJzonfdQGBxeR-QoUIAEr5-AnGZaiFPwDBr-NyrbIY9K1KtKg== to report this email as spam.

From: Prabhakar Krishnamurthy
To: Eric Luchini
Subject: support for costco in pleasanton
Date: Thursday, August 22, 2019 5:06:35 PM

Hi

I want to express my support for bringing Costco to Pleasanton.

regards
Prabhakar Krishnamurthy
Pleasanton Resident
Old Vineyard Neighborhood

Click here to report this email as spam.

From: Candace Gray
To: Eric Luchini
Subject: Support for Costco
Date: Friday, August 23, 2019 6:47:15 AM

As a 9 year resident and homeowner in Pleasanton, I fully maintain my support of a Costco on Johnson Drive. Pleasanton deserves to keep those tax dollars in our community. Many of of us are 2-parent working families with extensive commutes. I would much rather shop at a local Costco then take more time away from my family sitting on 580 or trying to take the Stanley route. Maybe for some who have the benefit of going during the day, don't know the evening hustle of trying to pick up kids, shop for groceries and cook for your family. We cannot maintain quality time with our families, if we spend all our time commuting and sitting in traffic. A family dinner is golden. It's not just convenience, it's about having more time for your family.

Thank you,
Candace Gray

Sent from my iPhone

Click https://www.mailcontrol.com/sr/Y5S3rbDDhsHGX2PQPOmvUjD8rK3oGsFSKFpMCBeztlCTZlEIPH5yTgI2NJy92zbsaiFPwDBr-Nxm4uq9tqSB7g== to report this email as spam.

From: Art@castlewoodinc.com
To: Eric Luchini
Subject: Support for Costco
Date: Friday, August 23, 2019 8:47:08 PM

Dear Mr. Luchini,

Our entire family of longtime Pleasanton residents support approval of the new Costco in Pleasanton. The City was shortsighted to not approve one over two decades ago before it was forced to select Livermore instead.

Please approve the Costco project in Pleasanton.

Sincerely,

The Dunkley families

Art Dunkley

Click https://www.mailcontrol.com/sr/MmrPaEpdYyPGX2PQPOmvUqy_8K4P2-30mzWCVsELLd_t2UWLEyOEPitiTHc_2og9Xr1sUZZvgJ6URD1dro2FIg== to report this email as spam.

From: Sally Leuten
To: Eric Luchini
Subject: support for Costco
Date: Thursday, August 22, 2019 4:22:58 PM

Again I want to tell you how much I look forward to the Pleasanton Costco. Cant wait.

Sally Leuten

Click https://www.mailcontrol.com/sr/sfoZdvmO2lLGX2PQPOmvUqy_8K4P2-30N1NdHvAXS3aPb4jTsN2IE0uGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: Yiao-Tee Hsia
To: Eric Luchini
Subject: Support for the Johnson Drive Economic Development Zone (EDZ)
Date: Thursday, August 15, 2019 2:26:31 PM

To Eric Luchini, Associate Planner of City of Pleasanton:

I am writing this email to express my TOTAL 1000% support on the EDZ on Johnson Drive. I have voted at least twice on the November ballots in support of this development where COSTCO will be going into. I don't know why people out there are still questioning the results of the ballot votes. It was not compromised by any Russian interference or Trumpness. I want my vote to count and I support the City of Pleasanton to fight this all the way to the Supreme Court, if needed.

Enough is enough! Thank you for your efforts!

Yiao-Tee & Shu-Fung Hsia
26.8 Year Resident of Pleasnton

Yiao-Tee Hsia
Independent Life Insurance Agent

"Life Insurance You Don't Have to Die to Use!"

Click here to report this email as spam.

From: Richard Feng@eBay
To: Eric Luchini
Subject: support to build Costco in Pleasanton
Date: Saturday, August 24, 2019 8:14:07 PM

---

hi Eric Luchini:
I am Richard live in Township nearby Bernal Safeway.
we as local residents really hope Pleasanton Costco can complete.
Thanks for your help

--

thx
Richard

Click here to report this email as spam.

From: Kavitha Murugesh
To: Eric Luchini
Subject: Supporting Costco in Pleasanton
Date: Tuesday, August 13, 2019 5:04:56 PM

Hello,

We voted once (No on Measure MM) for Costco and now again reaching out to submit my family's approval for Costco in Pleasanton.

Thank you,
Kavitha Kandappan (Pleasanton Resident)

---
http://eternityinwords.blogspot.com/
" GOD give me the serenity to accept the things I cannot change, the courage to change the things I can, and the wisdom to know the difference." -Reinhold Niebuhr.

"It doesn't matter where you come from, it matters where you're going" - Condoleezza Rice.

Click here to report this email as spam.

From: Sally Fang
To: Eric Luchini
Subject: Supporting Pleasanton Costco
Date: Saturday, August 24, 2019 7:02:38 PM

Hello Eric,

Your email was passed on to me by my neighbor to express my support for the Pleasanton Costco. My family and I often go to Costco in San Ramon/Danville. It would be an amazing addition to the city of Pleasanton. It will help yield revenue for the city that's otherwise benefiting San Ramon/Danville and Livermore. The measure was approved 2 years ago to build in Pleasanton. Clearly it proved that majority of the residents here support it. Why are we still having this conversation of building it or not? What was the purpose of the measure then? I understand the are some who do not support this but I think it's unfair and unacceptable to ignore what the majority wants. Thank you for your time.

Sincerely,
Sally

Sent from my iPhone

Click https://www.mailcontrol.com/sr/eSY1j0EjNYXGX2PQPOmvUlHUcPnZ_qyD9S3xvC7-bAhefyFh2BDW3HLtb179hm90m-r-NJ_hoZ_CXaTERp6oIw== to report this email as spam.

From: Srikanth Yendluri
To: Eric Luchini
Subject: Supporting the Costco project
Date: Tuesday, August 13, 2019 7:26:12 PM

I would totally approve this project. Pleasanton needs this.

I live at [redacted] Kolb Ranch Drive, Pleasanton CA 94588

Click here to report this email as spam.

From: William Lathlean
To: Eric Luchini
Subject: The new COSTCO
Date: Monday, August 12, 2019 2:47:27 PM

This has been stalled long enough. Voters voted in favor of it and the environmental study produced no issues. Let's get it going. Otherwise what is the point of voting? A minority seems to be trying to undermine the wishes of the majority.

Bill Lathlean
[redacted] Orchard Way
Pleasanton
[redacted]

Pleasanton resident since 1966

Click here to report this email as spam.

From: Rita Fitzpatrick
To: Eric Luchini
Subject: Updates on Costco plans
Date: Thursday, August 22, 2019 9:37:14 PM

I know that most of the residents of Pleasanton voted to have Costco at Johnson Drive. So do we have any updates on when it will actually be built? What is holding up the project when it won in the ballot?

Rita Fitzpatrick

Click here to report this email as spam.

From: Nina Niu
To: Eric Luchini
Subject: Voted for a Costco
Date: Thursday, August 22, 2019 2:55:32 PM

Hello there,

I am a Pleasanton resident and I voted for a Costco.

Thank you,
Nina Niu

Click here to report this email as spam.

From: Yana B
To: Eric Luchini
Subject: Voted for Costco in pleasanton ....
Date: Thursday, August 22, 2019 2:05:39 PM

... and cannot wait to shop in it. More business for the P-town!

Best regards
Yana
[redacted]

Click https://www.mailcontrol.com/sr/KY0qPoOrwlbGX2PQPOmvUkWM85sEKD4-yixUrw3yt9YRNERf6zgnwMH0sBvDS50Q0lsf8vYh9l7X405xsHCs_A== to report this email as spam.

From: Vishal Saboo
To: Eric Luchini
Subject: We can live without Costco
Date: Tuesday, August 20, 2019 9:38:27 PM

Just wanted to say that I LOVE Costco but we can live without it in Pleasanton!

We have 2 so close by, why would we add one more and bring all that traffic, congestion and pollution.

~ Vishal

Click https://www.mailcontrol.com/sr/OldDXiRuLEXGX2PQPOmvUihCLhWP7Wj9pagho-7ay-wVPSEM_YwfXnSo7u_jHL4kdsHNg0x49sOK0Rphlb7DTA== to report this email as spam.

From: Mirza
To: Eric Luchini
Subject: We want a Costco
Date: Thursday, August 22, 2019 6:05:23 PM

Please

Click https://www.mailcontrol.com/sr/W7ZW_ZEZSgbGX2PQPOmvUrTWOQPRvz4DvvBQT_MW558s8jyvEZ2M1HLtb179hm90aiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: LISA OLSON
To: Eric Luchini
Subject: WE WANT COSTCO!
Date: Thursday, August 22, 2019 6:06:50 PM

To the Pleasanton City Council,

I am in support of Costco coming to Pleasanton, as are a majority of residents who voted in favor of it.

Please stop the delays and let Costco start building. The tax revenue and jobs will be a great benefit to our community.

Thank you.

Lisa Olson
Sent from my iPhone

Click https://www.mailcontrol.com/sr/PIYSx_fF55_GX2PQPOmvUgfUspOYWKRbA0hLcUmXZfkudSzjW9jILUuGxp7Wya_faiFPwDBr-NyVGm43FW9a3A== to report this email as spam.

From: Erika
To: Eric Luchini
Subject: We want Costco
Date: Friday, August 23, 2019 6:32:40 AM

Dear city of Pleasanton.

Just to let you know I voted to allow Costco to come to Pleasanton. Want to reaffirm my vote. Let's get it built now so I don't have to drive to Livermore and spend tax money there.

In addition I'd love a Target in Pleasanton too. Those are the 2 main stores I leave Pleasanton to go to.

Sincerely,

Erika Beratlis
Pleasanton resident since 1987
Chris Beratlis
Lifelong Pleasanton resident for 51 years

Click https://www.mailcontrol.com/sr/oHr3JxliJIvGX2PQPOmvUtVTDJsKpCsgKa6p5ML3-pMeegi1VMczB0zTG0lN6OPraiFPwDBr-Nxm4uq9tqSB7g== to report this email as spam.

From: Anne Fredrickson
To: Eric Luchini
Subject: Would love a Costco in PLS
Date: Thursday, August 15, 2019 1:01:40 PM

Would love a Costco in Pls. Would help relive some of the 580 traffic to LVM if going to Costco. Good tax base too for PLS homeowners. Win/Win situation! Please consider approval.

Anne and Carl Fredrickson
[redacted] la Quinta Ct.
Pleasanton,Ca. 94588

Click https://www.mailcontrol.com/sr/-Y-NzC4dLzPGX2PQPOmvUtVTDJsKpCsgD8cuI5hSgxCWwtG4VpVAUVHLATcJ9-gNx2BmN5FCZmqCTIJSz5pNWQ== to report this email as spam.

From: Rohit Chowdary
To: Eric Luchini
Subject: Yes for Costco in Pleasanton - Very much Excited
Date: Tuesday, August 13, 2019 2:33:59 PM

My vote is YES for Costco in Pleasanton

Click here to report this email as spam.

From: Sairam M
To: Eric Luchini
Subject: YES for Costco in Pleasanton
Date: Tuesday, August 13, 2019 2:27:03 PM

Hi

This is Sairam M staying at Hacienda Commons located at [redacted] Owens Dr, Pleasanton.

I would like to vote YES for a Costco at Pleasanton.

Travelling all the way to Livermore has been tedious and also this would develop the economy of Pleasanton as a City.

Would Love to watch Costco starting its operations in Pleasanton.

Thanks & Regards,
Sairam

Click here to report this email as spam.

From: Cathy Edwards
To: Eric Luchini
Subject: YES for Costco
Date: Thursday, August 22, 2019 8:04:23 PM

Several years ago the residents of Pleasanton voted FOR a new Costco to be built here. I understand there is yet another delay by a small opposition group. Enough already with the delays. Build Costco on Johnson Drive now!

Cathy & Harry Edwards
[redacted] Crestablanca Drive
Pleasanton, CA

Click here to report this email as spam.

From: kalyanjit ghosh
To: Eric Luchini
Subject: yes for Costco
Date: Friday, August 23, 2019 10:28:53 AM

Hello,
We are residents in Vintage Hills , Pleasanton. We vote yes for Costco.

--
Kalyanjit Ghosh

Click here to report this email as spam.

From: Ninju Kumaran
To: Eric Luchini
Subject: Yes for Costco
Date: Friday, August 16, 2019 4:50:50 PM

Dear Mr. Luchini,

I have lived in Pleasanton for almost thirty years and love our great City.

Building Costco and the hotels is a sound development project for our city and will bring in tax dollars to the City.

Please proceed with the project.

Thank you,
Ninju Kumaran

Click here to report this email as spam.

From: Minh-Thu Dennen
To: Eric Luchini
Subject: Yes on Costco in Pleasanton!
Date: Thursday, August 22, 2019 11:20:12 PM

Thanks

Minh-Thu

Click here to report this email as spam.

From: Scott Tsugita
To: Eric Luchini
Subject: Yes on Costco in Pleasanton
Date: Friday, August 23, 2019 11:37:07 AM

Hi,

I live in Pleasanton and voted for Costco. You have my support.

Personal email: [redacted]

Scott Tsugita
Director of Information Systems
c[redacted]
KP *work smarter spend less*

Click here to report this email as spam.

From: Tom Donnelly
To: Eric Luchini
Subject: Yes on Costco
Date: Friday, August 23, 2019 4:42:40 PM

Hello Mr. Luchin,

I am a 29 year resident of Pleasanton. I think a Costco mixed with or commercial uses is appropriate for the Johnson Drive location.

Regards

Tom Donnelly
Page Ct. Pleasanton

Click here to report this email as spam.

From: Pat Shaughnessy
To: Eric Luchini
Subject: Yes on Costco
Date: Friday, August 23, 2019 4:40:14 AM

I voted Yes on Costco in the past, and still want it going forward. The thoughtful will of the majority should be respected rather than the will of a noisy minority.

Those who don't like Costco don't have to shop there--but honor the freedom of choice already voiced by Pleasanton voters.

Thank you,
Patricia Shaughnessy

Click here to report this email as spam.

From: Paul Hundley
To: Eric Luchini
Subject: Yes on Costco
Date: Thursday, August 22, 2019 4:02:04 PM

We have voted. It is wanted. Yes on Costco
Sent from Mail for Windows 10

Click here to report this email as spam.

From: Rajesh Arora
To: Eric Luchini
Subject: YES ON COSTCO
Date: Friday, August 23, 2019 8:43:55 AM

Raj Arora
Pleasanton, CA

Click
https://www.mailcontrol.com/sr/ExlMFEPQAJbGX2PQPOmvUjD8rK3oGsFSuKYYteOfu9N8cKcI6wG1N8H0sBvDS50QaiFPwDBr-NxsVqdfswMBgw== to report this email as spam.

From: Sonia Avila
To: Eric Luchini
Subject: Yes on Costco
Date: Monday, August 26, 2019 12:23:01 PM

We would love for a Costco in Pleasanton.

Good luck and hope it works in our favor

Sonia and Todd Dal Porto

Sent from my iPhone

Click https://www.mailcontrol.com/sr/18UwHqkDdYrGX2PQPOmvUihCLhWP7Wj9qRvmo5Wzd2b_Uoi74w86XCtiTHc_2og91pTg-HKA0AwbMAc-oOGgZg== to report this email as spam.

From: Mohandas Gopal
To: Eric Luchini
Subject: Yes ON CostCo
Date: Friday, August 23, 2019 9:46:56 AM

Costco in Pleasanton was voter approved , I am not sure why the pleasaonton city officials are blocking it.

Click here to report this email as spam.

From: Kavitha Thomas
To: Eric Luchini
Subject: Yes to Costco
Date: Thursday, August 22, 2019 2:51:30 PM

Voting yes to Costco in Johnson drive

Kavitha Thomas

Sent from my iPhone

Click https://www.mailcontrol.com/sr/z6VuVPrkdEbGX2PQPOmvUgfUspOYWKRbzwFK2z6Esw0-giAdx1NAa8H0sBvDS50Q0lsf8vYh9l7X405xsHCs_A== to report this email as spam.

From: Shahnaz Kiani
To: Eric Luchini
Subject: Yes to Costco In pleasanton
Date: Saturday, August 10, 2019 9:43:46 AM

As a 28 yr resident of Pleasanton,
I request that the city approve this project ASAP and put an end to the nonsense obstacles by outside groups.

Thank you,

Shanaz Kiani
Shahin Toutounchi
[redacted] Gray Fox Circle

Sent from my iPhone

Click
https://www.mailcontrol.com/sr/fjJH45JMOmLGX2PQPOmvUlQqnVH2UXcWDTFyMeoEZ_S3ZdifiTT5q86WUUJ8zrusdk295XWOAumZtQUzGWYsdQ==
to report this email as spam.

From: Michelle
To: Eric Luchini
Subject: Yes to Costco!
Date: Thursday, August 22, 2019 4:33:10 PM

Sent from my iPhone

Click https://www.mailcontrol.com/sr/fON4d-cVX-nGX2PQPOmvUj_GOBh06pKKQvlSpMvXVhT8si10Or8OgEuGxp7Wya_f0lsf8vYh9l7Lq66BGWNXYg== to report this email as spam.

From: pamgonzales
To: Eric Luchini
Subject: YES to Costco
Date: Friday, August 23, 2019 2:05:45 PM

Didn't we already vote and say "yes" to Costco on Johnson Drive?

Pam Gonzales
[redacted] W Las Positas Bl d

Sent from Samsung Galaxy smartphone.

Click here to report this email as spam.

From: Liza Goldberg
To: Eric Luchini
Subject: Yes to Costco
Date: Saturday, August 24, 2019 7:40:46 PM

Click here to report this email as spam.

From: Joyce
To: Eric Luchini
Subject: Yes, on Costco on Johnson Drive
Date: Wednesday, August 21, 2019 8:57:49 PM

Yes on Costco on Johnson Drive.
Joyce Okimoto

Sent from Mail for Windows 10

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APPENDIX B

Revised Emissions Results Tables

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APPENDIX B

Revised Emissions Results Tables

Health Risk Assessment Tables

TABLE 6
PROJECT MAXIMUM INCREMENTAL INCREASE IN CANCER RISK

Receptor Type	Construction + Operations (per million)	Full Buildout Operations (per million)
Off-Site Residential (MEIR)	4.7	2.8
Off-Site Worker (MEIW)	3.2	4.8
CSP Gym User	1.4	1.9
Existing On-Site Daycare	0.4	–
Existing On-Site Worker (MEIW)	2.7	2.0
BAAQMD Cancer Risk Threshold (per million)	10	10
Exceeds Threshold?	**No**	**No**

NOTES:

BAAQMD = Bay Area Air Quality Management District; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 7
PROJECT MAXIMUM CHRONIC HAZARD INDEX

Receptor Type	Phase 1 Construction	Phase 1 Operations + Phase 2 Construction	Full Buildout Operations
Off-Site Residential (MEIR)	0.01	0.03	0.01
Off-Site Worker (MEIW)	0.05	0.26	0.18
CSP Gym User	0.001	0.04	0.01
Existing On-Site Daycare	0.001	0.18	–
Existing On-Site Worker (MEIW)	0.06	0.37	0.32
BAAQMD Hazard Index Threshold	1.0	1.0	1.0
Exceeds Threshold?	**No**	**No**	**No**

NOTES:

BAAQMD = Bay Area Air Quality Management District; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 8
PROJECT MAXIMUM ANNUAL $PM_{2.5}$ CONCENTRATIONS

Receptor Type	Phase 1 Construction ($\mu g/m^3$)	Phase 1 Operations + Phase 2 Construction ($\mu g/m^3$)	Full Buildout Operations ($\mu g/m^3$)
Off-Site Residential (MEIR)	0.06	0.01	0.005
Off-Site Worker (MEIW)	0.22	0.03	0.048
CSP Gym User	0.01	0.004	0.002
Existing On-Site Daycare	0.005	0.02	–
Existing On-Site Worker (MEIW)	0.28	0.01	0.01
BAAQMD Annual $PM_{2.5}$ Threshold	0.3	0.3	0.3
Exceeds Threshold?	**No**	**No**	**No**

NOTES:

$\mu g/m^3$ = micrograms per cubic meter; BAAQMD = Bay Area Air Quality Management District; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker; $PM_{2.5}$ = particulate matter less than 2.5 microns in diameter

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 9
CUMULATIVE MAXIMUM INCREMENTAL INCREASE IN CANCER RISK

Receptor Type	Construction + Operation (per million)	Full Buildout Operations (per million)
Off-Site Residential (MEIR)	51.5	63.7
Off-Site Worker (MEIW)	85.1	86.7
CSP Gym User	64.8	65.3
Existing On-Site Daycare	78.9	–
Existing On-Site Worker (MEIW)	48.5	47.7
BAAQMD Cancer Risk Threshold (per million)	100	100
Exceeds Threshold?	**No**	**No**

NOTES:

BAAQMD = Bay Area Air Quality Management District; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 10
CUMULATIVE CHRONIC HAZARD INDEX

Receptor Type	Phase 1 Construction	Phase 1 Operations + Phase 2 Construction	Full Buildout Operations
Off-Site Residential (MEIR)	0.05	0.06	0.04
Off-Site Worker (MEIW)	0.07	0.30	0.22
CSP Gym User	0.04	0.07	0.04
Existing On-Site Daycare	0.05	0.23	–
On-Site Worker (MEIW)	0.09	0.40	0.35
BAAQMD Chronic Hazard Index Threshold	10	10	10
Exceeds Threshold?	**No**	**No**	**No**

NOTES:

BAAQMD = Bay Area Air Quality Management District; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 11
CUMULATIVE $PM_{2.5}$ CONCENTRATIONS

Receptor Type	Phase 1 Construction ($\mu g/m^3$)	Phase 1 Operations + Phase 2 Construction ($\mu g/m^3$)	Full Buildout Operations ($\mu g/m^3$)
Off-Site Residential (MEIR)	0.31	0.49	0.26
Off-Site Worker (MEIW)	0.36	0.31	0.40
CSP Gym User	0.39	0.38	0.38
On-Site Daycare	0.35	0.36	–
On-Site Worker (MEIW)	0.43	0.16	0.16
Annual $PM_{2.5}$ Threshold	0.8	0.8	0.8
Exceeds Threshold?	No	No	No

NOTES:

$\mu g/m^3$ = micrograms per cubic meter; CSP = Club Sport Pleasanton; MEIR = maximally exposed individual resident; MEIW = maximally exposed individual worker; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter

SOURCE: Data compiled by Environmental Science Associates in 2019

Air Quality Technical Memo Tables

TABLE 5
AVERAGE DAILY UNMITIGATED CONSTRUCTION EMISSIONS BY SOURCE

	Average Daily Emissions (pounds/day) [a]			
Phase / Source [b]	**ROG**	**NO_X**	**PM_{10} Exhaust**	**$PM_{2.5}$ Exhaust**
Phase 1				
Off-Road Equipment	4.76	46.85	2.27	2.12
Paving	0.46	–	–	–
Architectural Coating	12.07	–	–	–
Vendor/Hauling—travel	0.23	8.20	0.03	0.03
Vendor/Hauling—idling	0.02	0.29	<0.01	<0.01
Worker Trips	0.56	0.40	0.01	0.01
Phase Subtotal	*18.10*	***55.74***	*2.31*	*2.16*
BAAQMD Thresholds	54	54	82	54
Threshold Exceeded?	No	**Yes**	No	No
Phase 2				
Off-Road Equipment	2.58	14.69	0.38	0.38
Paving	0.24	–	–	–
Architectural Coating	9.80	–	–	–
Vendor/Hauling—travel	0.12	3.65	0.01	0.01
Vendor/Hauling—idling	0.02	0.21	<0.01	<0.01
Worker Trips	0.33	0.17	0.01	0.01
Phase Subtotal	*13.08*	*18.72*	*0.39*	*0.39*
BAAQMD Thresholds	54	54	82	54
Threshold Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] **Bold values** = threshold exceedance

[b] Categories defined as follows:
Off-Road Equipment = Operating emissions from heavy-duty equipment, such as bulldozers, cranes, and excavators. See Table 3 for equipment activity assumptions. Emissions were modeled using CalEEMod.
Paving = Fugitive ROG emissions from asphalt paving. Emissions were modeled using CalEEMod.
Architectural Coatings = Fugitive ROG emissions from the application of architectural coatings. Emissions were modeled using CalEEMod.
Vendor/Hauling—travel = Travel emissions from heavy-duty on-road vendor/haul trucks. Emissions were modeled using CalEEMod.
Vendor/Hauling—idling = Operating emissions from heavy-duty on-road vendor/haul trucks. The analysis assumed that each truck would idle 15 minutes while unloading soil or material on the project site. Emissions were modeled outside CalEEMod using EMFAC2017 emission factors.
Worker Trips = Operating emissions from employee vehicles. Emissions were modeled using CalEEMod.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 6
AVERAGE DAILY MITIGATED CONSTRUCTION EMISSIONS BY SOURCE

	Average Daily Emissions (pounds/day) [a]			
Phase/Source [b]	**ROG**	**NO_X**	**PM_{10} Exhaust**	**$PM_{2.5}$ Exhaust**
Phase 1				
Off-Road Equipment	2.08	33.04	1.70	1.70
Paving	0.46	–	–	–
Architectural Coating	12.07	–	–	–
Vendor/Hauling—travel	0.23	8.20	0.03	0.03
Vendor/Hauling—idling	0.02	0.29	<0.01	<0.01
Worker Trips	0.56	0.40	0.01	0.01
Phase Subtotal	*15.42*	*41.93*	*1.73*	*1.73*
BAAQMD Thresholds	54	54	82	54
Threshold Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] **Bold values** = threshold exceedance

[b] Categories defined as follows:
Off-Road Equipment = Operating emissions from heavy-duty equipment, such as bulldozers, cranes, and excavators. See Table 3 for equipment activity assumptions. Emissions were modeled using CalEEMod.
Paving = Fugitive ROG emissions from asphalt paving. Emissions were modeled using CalEEMod.
Architectural Coatings = Fugitive ROG emissions from the application of architectural coatings. Emissions were modeled using CalEEMod.
Vendor/Hauling—travel = Travel emissions from heavy-duty on-road vendor/haul trucks. Emissions were modeled using CalEEMod.
Vendor/Hauling—idling = Operating emissions from heavy-duty on-road vendor/haul trucks. The analysis assumed that each truck would idle 15 minutes while unloading soil or material on the project site. Emissions were modeled outside CalEEMod using EMFAC2017 emission factors.
Worker Trips = Operating emission from employee vehicles. Emissions were modeled using CalEEMod.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 7
PHASE 1 (2021) AVERAGE DAILY UNMITIGATED OPERATIONAL EMISSIONS BY SOURCE

	Average Daily Emissions (pounds/day)			
Source [a]	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
Area	5.86	<0.01	<0.01	<0.01
Energy	0.14	1.23	0.09	0.09
Non-delivery Vehicles (running)	13.98	36.49	54.67	14.98
Light-Duty Vehicles (idling at gas station)	0.30	0.38	0.03	0.03
Delivery Vehicles (running + starting)	0.17	8.77	0.41	0.22
Delivery Vehicles (idling)	0.06	0.87	<0.01	<0.01
Transportation Refrigeration Units	0.23	3.43	0.02	0.02
Gas Station (evaporative)	32.34	–	–	–
Costco Generator	0.09	1.37	0.04	0.04
Hotel Generator	0.09	1.37	0.04	0.04
Total	*53.27*	*53.91*	*55.32*	*15.43*
BAAQMD Thresholds	54	54	82	54
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2017 = the California Air Resources Board's EMission FACtors Model, 2017 version; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Categories defined as follows:
Area = Emissions from landscaping equipment, consumer products, and architectural coatings. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod. Consumer product emissions are only attributed to the hotel land use.
Energy = Emissions from natural gas combustion for space heating and cooking. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod.
Non-delivery Vehicles (running) = Operating emissions from daily commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at the gas station. Emissions estimated using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running + starting) = Operating emissions from daily commercial delivery vehicle trips. See Table 4 for the daily vehicle trips for each land use type. Emissions were estimated using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from daily commercial delivery vehicles idling. Emissions were estimated using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from daily transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the California Air Resources Board's airborne toxics control measures and Tier 4 final emissions standards for diesel engines.
Gas Station (evaporative) = Operating daily evaporative ROG emissions from the gas station, which includes underground storage tank loading and breathing, as well as refueling and fuel spillage.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators.

[b] Totals may not add up exactly due to rounding.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 8
PHASE 1 (2021) TOTAL ANNUAL UNMITIGATED OPERATIONAL EMISSIONS BY SOURCE

	Total Annual Emissions (tons/year)			
Source [a]	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
Area	1.07	<0.01	<0.01	<0.01
Energy	0.02	0.23	0.02	0.02
Light-Duty Vehicles (running)	2.55	6.66	9.98	2.73
Light-Duty Vehicles (idling at gas station)	0.06	0.07	0.01	0.01
Delivery Vehicles (running + starting)	0.03	1.60	0.07	0.04
Delivery Vehicles (idling)	0.01	0.16	<0.01	<0.01
Transportation Refrigeration Units	0.04	0.63	<0.01	<0.01
Gas Station (evaporative)	5.90	–	–	–
Costco Generator	0.02	0.25	0.01	0.01
Hotel Generator	0.02	0.25	0.01	0.01
Total	*9.72*	*9.84*	*10.10*	*2.82*
BAAQMD Thresholds	10	10	15	10
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2017 = the California Air Resources Board's EMission FACtors Model, 2017 version; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Categories defined as follows:
Area = Emissions from landscaping equipment, consumer products, and architectural coatings. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod. Consumer product emissions are only attributed to the hotel land use.
Energy = Emissions from natural gas combustion for space heating and cooking. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod.
Non-delivery Vehicles (running) = Operating emissions from daily commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at the gas station. Emissions estimated using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running + starting) = Operating emissions from daily commercial delivery vehicle trips. See Table 4 for the daily vehicle trips for each land use type. Emissions were estimated using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from daily commercial delivery vehicles idling. Emissions were estimated using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from daily transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the California Air Resources Board's airborne toxics control measures and Tier 4 final emissions standards for diesel engines.
Gas Station (evaporative) = Operating daily evaporative ROG emissions from the gas station, which includes underground storage tank loading and breathing, as well as refueling and fuel spillage.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 10
AVERAGE DAILY UNMITIGATED CONSTRUCTION PLUS OPERATIONAL EMISSIONS

	Average Daily Emissions (pounds/day)			
Source	**ROG**	**NO_X**	**PM_{10} [a]**	**$PM_{2.5}$ [a]**
Phase 2 Construction	13.08	18.72	0.39	0.39
Phase 1 Operation	48.48	39.73	56.05	15.49
Construction + Operation Subtotal	*61.56*	*58.45*	*56.44*	*15.88*
Existing Operational Emissions [b]	11.61	35.91	20.53	5.81
Net Project Emissions [c]	*49.95*	*22.55*	*35.91*	*10.07*
BAAQMD Thresholds	54	54	82	54
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Construction emissions of PM_{10} and $PM_{2.5}$ are exhaust emissions only; operational emissions of PM_{10} and $PM_{2.5}$ are exhaust and fugitive dust.

[b] Existing emissions based on new CalEEMod Version 2016.3.2 model run.

[c] Net Project Emissions = construction + operation subtotal for the project minus existing operational emissions. Totals may not add up exactly due to rounding.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 11
TOTAL ANNUAL UNMITIGATED CONSTRUCTION PLUS OPERATIONAL EMISSIONS

	Total Annual Emissions (tons/year)			
Source	**ROG**	**NO_X**	**PM_{10} [a]**	**$PM_{2.5}$ [a]**
Phase 2 Construction	1.71	2.45	0.05	0.05
Phase 1 Operation	8.85	7.25	10.23	2.83
Construction + Operation Subtotal	*10.56*	*9.70*	*10.28*	*2.88*
Existing Operational Emissions [b]	2.12	6.55	3.75	1.06
Net Project Emissions [c]	*8.44*	*3.15*	*6.53*	*1.82*
BAAQMD Thresholds	10	10	15	10
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Construction emissions of PM_{10} and $PM_{2.5}$ are exhaust emissions only; operational emissions of PM_{10} and $PM_{2.5}$ are exhaust and fugitive dust.

[b] Existing emissions based on new CalEEMod Version 2016.3.2 model run.

[c] Net Project Emissions = construction + operation subtotal for the project minus existing operational emissions. Totals may not add up exactly due to rounding.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 12
FULL BUILDOUT (2031) AVERAGE DAILY UNMITIGATED OPERATIONAL EMISSIONS BY SOURCE

	Average Daily Emissions (pounds/day)			
Source [a]	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
Area	10.90	<0.01	<0.01	<0.01
Energy	0.17	1.53	0.12	0.12
Non-delivery Vehicles (running)	14.43	35.67	95.17	25.84
Light-Duty Vehicles (idling at gas station)	0.09	0.14	0.02	0.02
Delivery Vehicles (running + starting)	0.15	18.29	0.78	0.38
Delivery Vehicles (idling)	0.19	2.43	<0.01	<0.01
Transportation Refrigeration Units	0.63	9.28	0.06	0.06
Gas Station (evaporative)	32.34	–	–	–
Costco Generator	0.09	1.37	0.04	0.04
Hotel Generator	0.09	1.37	0.04	0.04
Full Buildout Operational Emissions	*59.09*	*70.07*	*96.22*	*26.49*
Existing Operational Emissions [b]	11.61	35.91	20.53	5.81
Net Emissions [c]	*47.48*	*34.16*	*75.70*	*20.68*
BAAQMD Thresholds	54	54	82	54
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2017 = the California Air Resources Board's EMission FACtors Model, 2017 version; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Categories defined as follows:
Area = Emissions from landscaping equipment, consumer products, and architectural coatings. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod. Consumer product emissions are only attributed to the hotel land use.
Energy = Emissions from natural gas combustion for space heating and cooking. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod.
Non-delivery Vehicles (running) = Operating emissions from daily commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at gas station. Emissions estimated using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running + starting) = Operating emissions from daily commercial delivery vehicle trips. See Table 4 for the daily vehicle trips for each land use type. Emissions were estimated using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from daily commercial delivery vehicles idling. Emissions were estimated using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from daily transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the California Air Resources Board's airborne toxics control measures and Tier 4 final emission standards for diesel engines.
Gas Station (evaporative) = Operating daily evaporative ROG emissions from the gas station, which includes underground storage tank loading and breathing, as well as refueling and fuel spillage.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators.

[b] Existing emissions based on new CalEEMod Version 2016.3.2 model run.

[c] Net Emissions = full buildout operational emissions for the project minus existing operational emissions. Totals may not add up exactly due to rounding.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 13
FULL BUILDOUT (2031) TOTAL ANNUAL UNMITIGATED OPERATIONAL EMISSIONS BY SOURCE

	Total Annual Emissions (tons/year)			
Source [a]	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
Area	1.99	<0.01	<0.01	<0.01
Energy	0.03	0.28	0.02	0.02
Non-delivery Vehicles (running)	2.63	6.51	17.37	4.72
Light-Duty Vehicles (idling at gas station)	0.02	0.03	0.00	0.00
Delivery Vehicles (running + starting)	0.03	3.34	0.14	0.07
Delivery Vehicles (idling)	0.04	0.44	<0.01	<0.01
Transportation Refrigeration Units	0.11	1.69	0.01	0.01
Gas Station (evaporative)	5.90	–	–	–
Costco Generator	0.02	0.25	0.01	0.01
Hotel Generator	0.02	0.25	0.01	0.01
Full Buildout Operational Emissions	*10.78*	*12.79*	*17.56*	*4.83*
Existing Emissions [b]	2.12	6.55	3.75	1.06
Net Emissions [c]	*8.67*	*6.23*	*13.81*	*3.77*
BAAQMD Thresholds	10	10	15	10
Thresholds Exceeded?	No	No	No	No

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2017 = the California Air Resources Board's EMission FACtors Model, 2017 version; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases

[a] Categories defined as follows:
Area = Emissions from landscaping equipment, consumer products, and architectural coatings. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod. Consumer product emissions are only attributed to the hotel land use.
Energy = Emissions from natural gas combustion for space heating and cooking. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod.
Non-delivery Vehicles (running) = Operating emissions from daily commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at gas station. Emissions estimated using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running + starting) = Operating emissions from daily commercial delivery vehicle trips. See Table 4 for the daily vehicle trips for each land use type. Emissions were estimated using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from daily commercial delivery vehicles idling. Emissions were estimated using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from daily transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the California Air Resources Board's airborne toxics control measures and Tier 4 final emission standards for diesel engines.
Gas Station (evaporative) = Operating daily evaporative ROG emissions from the gas station, which includes underground storage tank loading and breathing, as well as refueling and fuel spillage.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators.

[b] Existing emissions based on new CalEEMod Version 2016.3.2 model run.

[c] Net Emissions = full buildout operational emissions for the project minus existing operational emissions. Totals may not add up exactly due to rounding.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 14
COMPARISON OF FULL BUILDOUT TOTAL ANNUAL UNMITIGATED OPERATIONAL EMISSIONS BY SOURCE FOR THE UPDATED ANALYSIS (2031) WITH THE DRAFT SEIR (2025)

	Total Annual Emissions (tons/year)							
	Updated Analysis (2031)				Draft SEIR (2025)			
Source [a]	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
Area [b]	1.99	<0.01	<0.01	<0.01	2.26	<0.01	<0.01	<0.01
Energy [c]	0.03	0.28	0.02	0.02	0.02	0.22	0.02	0.02
Non-delivery Vehicles (running) [d]	2.63	6.51	17.37	4.72	7.61	19.69	17.78	5.05
Light-Duty Vehicles (idling at gas station) [e]	0.02	0.03	0.00	0.00	–	–	–	–
Delivery Vehicles (running + starting) [e]	0.03	3.34	0.14	0.07	–	–	–	–
Delivery Vehicles (idling) [e]	0.04	0.44	0.0002	0.0002	–	–	–	–
Transportation Refrigeration Units [e]	0.11	1.69	0.01	0.01	–	–	–	–
Gas Station (evaporative) [e]	5.90	–	–	–	–	–	–	–
Costco Generator [e]	0.02	0.25	0.01	0.01	–	–	–	–
Hotel Generator [e]	0.02	0.25	0.01	0.01	–	–	–	–
Full Buildout Operational Emissions	*10.78*	*12.79*	*17.56*	*4.83*	*9.98*	*19.91*	*17.80*	*5.07*
Existing Emissions [f]	2.12	6.55	3.75	1.06	2.00	4.00	2.00	1.00
Net Emissions [g]	*8.67*	*6.23*	*13.81*	*3.77*	*7.98*	*15.91*	*15.80*	*4.07*

NOTES:

BAAQMD = Bay Area Air Quality Management District; CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2017 = the California Air Resources Board's EMission FACtors Model, 2017 version; NO_X = oxides of nitrogen; PM_{10} = particulate matter less than or equal to 10 microns in diameter; $PM_{2.5}$ = particulate matter less than or equal to 2.5 microns in diameter; ROG = reactive organic gases; SEIR = Supplemental Environmental Impact Report

[a] Categories defined as follows:
Area = Emissions from landscaping equipment, consumer products, and architectural coatings. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod. Consumer product emissions are only attributed to the hotel land use.
Energy = Emissions from natural gas combustion for space heating and cooking. See Table 1 for the land use type and sizes assumed in the modeling. Emissions were modeled using CalEEMod.
Non-delivery vehicles (running) = Operating emissions from annual commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at gas station. Emissions estimated using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running + starting) = Operating emissions from annual commercial delivery vehicle trips. See Table 4 for the daily vehicle trips for each land use type. Emissions were estimated using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from annual commercial delivery vehicles idling. Emissions were estimated using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from annual transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the California Air Resources Board's airborne toxics control measures and Tier 4 final emission standards for diesel engines.
Gas Station (evaporative) = Operating annual evaporative ROG emissions from the gas station, which includes underground storage tank loading and breathing, as well as refueling and fuel spillage.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators.

[b] Area-source emissions differ because the land use values (i.e. square footage and hotel rooms) differ slightly from those in the Draft SEIR and because the consumer product emission rate was revised so that emissions would only be attributed to the hotel land use.

[c] Energy emissions differ because the land use values (i.e., square footage and hotel rooms) differ slightly from those in the Draft SEIR, and because the energy intensity values represent 2019 Title 24 Energy Efficiency Standards vs. 2008 Title 24 Energy Efficiency Standards.

[d] Non-delivery Vehicle emissions differ for the following reasons: A more recent version of CalEEMod was used to estimate emissions; trip rates were revised; the fleet mix for project-generated traffic was updated to represent all vehicle types except heavy-duty delivery vehicle trips; and the updated emissions represent vehicle emission rates for calendar year 2031 instead of 2025. In addition, the Draft SEIR did not separate mobile-source emissions into running and idling emissions for vehicles; the totals presented here represent total mobile-source emissions from all vehicle types from all processes.

[e] The Draft SEIR did not separately estimate emissions for these operational sources.

[f] Existing emissions obtained from the Air Quality section of the Draft SEIR.

[g] Net Emissions = full buildout operational emissions for the project minus existing operational emissions. Totals may not add up exactly due to rounding.

SOURCES: Data compiled by Environmental Science Associates in 2019

Greenhouse Gas Technical Study Tables

TABLE 5
ESTIMATED UNMITIGATED CONSTRUCTION GREENHOUSE GAS EMISSIONS

Construction Year	CO_2e (metric tons) [a, b]
Phase 1 (2020/2021)	1,264
Phase 1 Amortized Emissions (30 years)	42
Phase 2 (2030/2031)	1,043
Project Construction Total	**2,307**
Total Construction Amortized Emissions (30 years)	**77**

NOTES:

CO_2e = carbon dioxide equivalent

[a] Totals may not add up exactly due to rounding in the modeling calculations.

[b] CO_2e emissions are calculated using the global warming potential values from the *Intergovernmental Panel on Climate Change Fourth Assessment Report:* 25 for methane and 298 for nitrous oxide (Intergovernmental Panel on Climate Change, *Fourth Assessment Report: The Physical Science Basis, Summary for Policy Makers*, 2007).

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 6
ANNUAL OPERATIONAL GHG EMISSIONS, PHASE 1 AND FULL BUILDOUT

Emission Source	Annual CO_2e Emissions ($MTCO_2e$ per year)	
	Phase 1 2021	**Full Buildout 2031**
Area	0.008	0.013
Electricity	677	913
Natural Gas	247	305
Non-delivery Vehicles (running)	9,368	12,209
Light-Duty Vehicles (idling at gas station)	377	287
Delivery Vehicles (running)	756	1,379
Delivery Vehicles (idling)	33	85
Transportation Refrigeration Units	215	582
Costco Generator	26	26
Hotel Generator	26	26
Solid Waste	392	527
Water and Wastewater	22	73
Construction (amortized over 30 years)	42	77
Total Operational Project GHG Emissions Including Construction Emissions	**12,181**	**16,491**
Estimated Reductions from EV Charging Infrastructure [a]	136	92
Estimated Reductions from Costco Solar PV installation [b]	150	141
Total Net Operational Project GHG Emissions Including EV and Solar PV Reduction	**11,895**	**16,258**

NOTES:

CalEEMod = CALifornia Emissions Estimator MODel; CO_2e = carbon dioxide equivalent; EMFAC2017 = EMission FACtors model, Version 2017; EV = electric vehicle; GHG = greenhouse gas; PV = photovoltaic; $MTCO_2e$ = metric tons of carbon dioxide equivalent; MWh = megawatt-hours

Categories defined as follows:

Area = Emissions from landscaping equipment. Emissions were modeled using CalEEMod.
Electricity = Emissions from electricity consumption in buildings. Emissions were modeled using CalEEMod.
Natural Gas = Emissions from natural gas combustion for space heating and cooking. Emissions were modeled using CalEEMod.
Non-delivery vehicles (running) = Operating emissions from daily commercial non-delivery vehicle trips. Emissions from these trips were estimated using CalEEMod.
Light-Duty Vehicles (idling at gas station) = Idling emissions from autos queueing in line at the gas station. Emissions were estimated outside of CalEEMod using EMFAC2017 emissions factors and an idling time of 10 minutes.
Delivery Vehicles (running) = Operating emissions from daily commercial delivery vehicle trips. Emissions were estimated outside of CalEEMod using emission factors from EMFAC2017.
Delivery Vehicles (idling) = Operating emissions from daily commercial delivery vehicles idling. Emissions were estimated outside of CalEEMod using emission factors from EMFAC2017 and an idling duration of 15 minutes.
Transportation Refrigeration Units = Operating emissions from daily transportation refrigeration unit usage at commercial land uses. Emissions were estimated outside of CalEEMod using emission factors from the National Renewable Energy Laboratory.
Costco and Hotel Generators = Operating emissions from diesel-powered emergency generators. Emission were estimated outside of CalEEMod using emission factors from The Climate Registry.
Solid Waste = Downstream fugitive methane emissions associated with landfilling solid waste. Emissions were modeled using CalEEMod.

[a] This represents the reduction in emissions from conventional fossil-fueled vehicles that would be replaced by EVs using the charging infrastructure at the Project site. See Appendix A for calculation details.

[b] This represents the reduction in emissions from a rooftop solar PV system at the Costco warehouse that would generate 1,128 MWh of clean energy annually.

SOURCE: Data compiled by Environmental Science Associates in 2019

Energy Tables

TABLE 3
ESTIMATED PROJECT CONSTRUCTION FUEL USAGE

	Phase 1 Fuel Consumption (gallons)		Phase 2 Fuel Consumption (gallons)	
Category [a]	**Diesel**	**Gasoline**	**Diesel**	**Gasoline**
Fuel Use by Source				
Off-Road Equipment	86,786	–	66,868	–
Haul/Vendor	27,559	–	21,196	–
Workers	–	19,813	–	14,799
Total	*114,345*	*19,813*	*88,064*	*14,799*
Fuel Usage Comparisons				
Alameda County	113,725,490	583,000,000	113,725,490	583,000,000
Project Percent of Alameda County	0.10%	0.003%	0.08%	0.003%
California	3,798,039,216	15,584,000,000	3,798,039,216	15,584,000,000
Project Percent of California	0.003%	0.0001%	0.002%	0.0001%

NOTES:

CalEEMod = CALifornia Emissions Estimator MODel; EMFAC2014 = EMission FACtors model, Version 2014

[a] Categories defined as follows:
Off-Road Equipment = Operating energy use from heavy-duty equipment, such as bulldozers, cranes, and excavators. Energy was modeled using CalEEMod and OFFROAD2017.
Haul/Vendor = Travel and idling energy use from heavy-duty on-road vendor/haul trucks. Energy use was modeled using CalEEMod and EMFAC2014.
Workers = Operating energy use from employee vehicles. Energy use was modeled using EMFAC2014.

SOURCE: Data compiled by Environmental Science Associates in 2019

TABLE 4
ESTIMATED ANNUAL PROJECT ELECTRICITY AND NATURAL GAS USAGE FOR PHASE 1 AND FULL BUILDOUT

Source	Phase 1 (2021)	Full Buildout (2031)
Project Electricity Consumption (million kWh) [a]	5.19	7.46
Percent of Total PG&E 2017 Sales	0.006%	0.009%
Percent of Alameda County PG&E 2017 Sales	0.05%	0.07%
Project Natural Gas Consumption (million scf)	4.43	4.79
Percent of Total PG&E 2017 Sales	0.002%	0.002%
Percent of Alameda County PG&E 2017 Sales	0.01%	0.01%

NOTES:

kWh = kilowatt-hours; PG&E = Pacific Gas and Electric Company; scf = standard cubic feet

[a] Electricity supplied by PG&E would be reduced through installation of rooftop solar photovoltaic systems, which are project design features. These features would replace PG&E electricity with on-site renewable energy generation. See the *Greenhouse Gas Technical Analysis* for more information (*Greenhouse Gas Technical Analysis*, Section 3.2, *Project Design Features*).

SOURCES:

1. Data compiled by Environmental Science Associates in 2019.
2. PG&E, 2017 Joint Annual Report to Stakeholders, available at http://s1.q4cdn.com/880135780/files/doc_financials/2017/annual/2017-Annual-Report-Final.pdf, accessed February 2019.

TABLE 5
ESTIMATED ANNUAL PROJECT TRANSPORTATION FUEL USAGE FOR PHASE 1 AND FULL BUILDOUT

	Phase 1 (2021) Fuel Consumption (gallons)		Full Buildout (2031) Fuel Consumption (gallons)	
Category	**Diesel**	**Gasoline**	**Diesel**	**Gasoline**
Non-delivery Vehicles (running)	37,970	1,099,432	56,939	1,481,589
Light-Duty Vehicles (idling at gas station)	–	39,991	–	39,991
Delivery Vehicles	79,893	–	151,691	–
Transportation Refrigeration Units	14,533	–	39,291	–
Generators	5,070	–	5,070	–
Total [a]	*137,466*	*1,139,423*	*252,991*	*1,521,580*
Fuel Usage Comparisons				
Alameda County	113,725,490	583,000,000	113,725,490	583,000,000
Project Percent of Alameda County	0.12%	0.20%	0.22%	0.26%
California	3,798,039,216	15,584,000,000	3,798,039,216	15,584,000,000
Project Percent of California	0.004%	0.0073%	0.007%	0.010%

NOTES:

EMFAC2014 = EMission FACtors model, Version 2014; EMFAC2017 = EMission FACtors model, Version 2017

[a] Categories defined as follows:

Non-delivery vehicles (running) = Energy use from daily commercial non-delivery vehicle trips. Energy use estimated using EMFAC2014.
Light-Duty Vehicles (idling at gas station) = Energy use from autos idling and queueing in line at gas station. Energy use was estimated using idling fuel use rates from the U.S. Department of Energy (2015) and assuming an idling time of 10 minutes per vehicle.
Delivery Vehicles = Energy use from daily commercial delivery vehicle trips, including idling and running. Energy use was estimated using EMFAC2017 and idling fuel use rates from the U.S. Department of Energy (2015) and assuming an idling duration of 15 minutes per roundtrip.
Transportation Refrigeration Units = Energy use from daily transportation refrigeration unit operations at commercial land uses. Energy use was estimated using fuel consumption values from NREL (2010).
Generators = Energy use from diesel-powered emergency generators. Energy use was estimated using the carbon content of diesel fuel from the Climate Action Registry (2018).

SOURCES:

1. Data compiled by Environmental Science Associates in 2019.
2. California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2017, available at https://www.energy.ca.gov/almanac/transportation_data/gasoline/piira_retail_survey.html, accessed February 2019. Diesel is adjusted to account for retail (51%) and non-retail (49%) diesel sales.

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APPENDIX C

Modeling Results

Appendix C.1 – Health Risk Assessment

Appendix C.2 – Air Quality Analysis

Appendix C.3 – Greenhouse Gas Analysis

Appendix C.4 – Energy Analysis

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APPENDIX C.1: HEALTH RISK ASSESSMENT

Emission Calculations

- Construction PM Emissions
- Construction $PM_{2.5}$ Emissions
- Operational PM Emissions
- Operational Emissions Summary

Health Risk Assessment and Annual $PM_{2.5}$ Calculations

- Construction HRA Concentrations
- Construction HRA
- Cumulative Source Impacts
- Annual $PM_{2.5}$ Exhaust Concentrations
- HRA and Annual $PM_{2.5}$ Results

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Emissions Calculations

Construction PM Emissions

Construction PM10 (DPM) Emissions[1]

	Phase	Start Date	End Date	Number of Work Days	Hours per day	Emission Rate per work day (g/s): Off-Road Construction Equipment	Emission Rate per work day (g/s): On-Road Haul, Concrete, Vendor Truck	Emission Rate per work day (g/s): Idling Haul, Concrete, Vendor Truck
Phase 1 A	Grading/Excavation	4/6/2020	5/10/2020	30	8	4.88E-02	7.05E-05	3.77E-06
	Drainage/Utilities/Sub-Grade	4/22/2020	4/29/2020	7	8	1.73E-02	0.00E+00	0.00E+00
	Foundations/Concrete Pour	4/29/2020	5/15/2020	15	8	1.96E-02	2.02E-04	1.08E-05
	Building Construction	5/16/2020	7/24/2020	60	8	2.57E-02	9.07E-05	4.85E-06
	Architectural Coatings	5/28/2020	7/24/2020	50	8	1.86E-03	0.00E+00	0.00E+00
	Paving	7/17/2020	7/24/2020	7	8	2.21E-02	5.04E-06	2.69E-07
Phase 1B	Grading/Excavation	4/6/2020	6/15/2020	51	8	1.89E-02	3.53E-05	1.88E-06
	Drainage/Utilities/Sub-Grade	6/16/2020	6/30/2020	11	8	2.77E-02	0.00E+00	0.00E+00
	Foundations/Concrete Pour	7/1/2020	7/30/2020	22	8	1.66E-02	1.21E-04	6.46E-06
	Building Construction	7/31/2020	2/23/2021	148	8	1.74E-02	3.53E-05	1.88E-06
	Architectural Coatings	2/24/2021	3/20/2021	18	8	1.58E-03	0.00E+00	0.00E+00
	Paving	3/21/2021	4/5/2021	11	8	8.54E-03	4.21E-06	2.30E-07
Phase 2	Demolition	1/7/2030	2/3/2030	20	8	6.48E-03	3.31E-05	1.96E-06
	Grading/Excavation	2/4/2030	3/2/2030	20	8	1.40E-02	4.30E-05	2.55E-06
	Drainage/Utilities/Sub-Grade	3/3/2030	4/6/2030	25	8	5.50E-03	0.00E+00	0.00E+00
	Foundations/Concrete Pour	4/6/2030	4/28/2030	15	8	2.29E-03	9.26E-05	5.49E-06
	Building Construction	4/30/2030	11/11/2030	140	8	4.06E-03	1.98E-05	1.18E-06
	Architectural Coatings	11/12/2030	12/9/2030	20	8	3.41E-04	0.00E+00	0.00E+00
	Paving	12/10/2030	1/7/2031	21	8	4.17E-03	1.65E-06	9.81E-08

1) Offroad equipment emissions generated from same equipment fleet used in AQ Anlaysis.

Annual Average Emissions (g/s)

Soure Group	DPM
Phase 1A Off-Road	3.36E-02
Phase 1B Off-Road	1.19E-02
Phase 1A-Haul	9.74E-05
Phase 1B-Haul	2.67E-05
Phase 1A-Iding	5.20E-06
Phase 1B-Idling	1.43E-06
Phase 2- Off Road	3.41E-03
Phase 2-Haul	1.57E-05
Phase 2-Idle	9.30E-07

Construction PM10 (DPM) Emissions for AERMOD

AERMOD Soure Group	AERMOD Emission Rates (g/s)
Phase1A	3.36E-02
Phase1B	1.19E-02
Phase 1A Haul	9.74E-05
Phase 1B Haul	2.67E-05
Phase1A_Idle	5.20E-06
Phase1B_Idle	1.43E-06
Phase2_1	1.13E-03
Phase2_2	1.19E-03
Phase2_3	1.09E-03
Phase 2 Haul	1.57E-05
Phase2_1IDLE	4.64E-07
Phase2_2IDLE	1.88E-07
Phase2_3IDLE	2.78E-07

Construction $PM_{2.5}$ Emissions

Construction PM2.5 Emissions[1]

	Phase	Start Date	End Date	Number of Work Days	Hours per day	Emission Rate per work day (g/s)		
						Off-Road Construction Equipment	On-Road Haul, Concrete, Vendor Truck	Idling Haul, Concrete, Vendor Truck
Phase 1 A	Grading/Excavation	4/6/2020	5/10/2020	30	8	4.49E-02	6.75E-05	3.61E-06
	Drainage/Utilities/Sub-Grade	4/22/2020	4/29/2020	7	8	1.59E-02	0.00E+00	0.00E+00
	Foundations/Concrete Pour	4/29/2020	5/15/2020	15	8	1.93E-02	1.93E-04	1.03E-05
	Building Construction	5/16/2020	7/24/2020	60	8	2.39E-02	8.68E-05	4.64E-06
	Architectural Coatings	5/28/2020	7/24/2020	50	8	1.86E-03	0.00E+00	0.00E+00
	Paving	7/17/2020	7/24/2020	7	8	2.03E-02	4.82E-06	2.58E-07
Phase 1B	Grading/Excavation	4/6/2020	6/15/2020	51	8	1.74E-02	3.37E-05	1.80E-06
	Drainage/Utilities/Sub-Grade	6/16/2020	6/30/2020	11	8	2.55E-02	0.00E+00	0.00E+00
	Foundations/Concrete Pour	7/1/2020	7/30/2020	22	8	1.57E-02	1.16E-04	6.18E-06
	Building Construction	7/31/2020	2/23/2021	148	8	1.63E-02	3.37E-05	1.80E-06
	Architectural Coatings	2/24/2021	3/20/2021	18	8	1.58E-03	0.00E+00	0.00E+00
	Paving	3/21/2021	4/5/2021	11	8	7.86E-03	4.03E-06	2.20E-07
Phase 2	Demolition	1/7/2030	2/3/2030	20	8	6.48E-03	3.16E-05	1.88E-06
	Grading/Excavation	2/4/2030	3/2/2030	20	8	1.40E-02	4.11E-05	2.44E-06
	Drainage/Utilities/Sub-Grade	3/3/2030	4/6/2030	25	8	5.50E-03	0.00E+00	0.00E+00
	Foundations/Concrete Pour	4/6/2030	4/28/2030	15	8	2.29E-03	8.86E-05	5.25E-06
	Building Construction	4/30/2030	11/11/2030	140	8	4.06E-03	1.90E-05	1.13E-06
	Architectural Coatings	11/12/2030	12/9/2030	20	8	3.41E-04	0.00E+00	0.00E+00
	Paving	12/10/2030	1/7/2031	21	8	4.17E-03	1.58E-06	9.38E-08

1) Offroad equipment emissions generated from same equipment fleet used in AQ Anlaysis.

Annual Average Emissions (g/s)	
Soure Group	PM2.5
Phase 1A Off-Road	0.03134
Phase 1B Off-Road	0.01112
Phase 1A-Haul	9.32E-05
Phase 1B-Haul	2.56E-05
Phase 1A-Iding	4.98E-06
Phase 1B-Idling	1.37E-06
Phase 2- Off Road	3.41E-03
Phase 2-Haul	1.50E-05
Phase 2-Idle	8.90E-07

Construction PM2.5 Emissions for AERMOD

AERMOD Soure Group	AERMOD Emission Rates
Phase1A	3.13E-02
Phase1B	1.11E-02
Phase 1A Haul	9.32E-05
Phase 1B Haul	2.56E-05
Phase1A_Idle	4.98E-06
Phase1B_Idle	1.37E-06
Phase2_1	1.13E-03
Phase2_2	1.19E-03
Phase2_3	1.09E-03
Phase 2 Haul	1.50E-05
Phase2_1IDLE	4.44E-07
Phase2_2IDLE	1.79E-07
Phase2_3IDLE	2.66E-07

On-Road Haul/Concrete Truck Emissions

ALL TRUCKS WERE ASSUMED TO BE DIESEL POWERED

Table 5: Phase 1A Construction Haul Truck Running and Idling Emissions

Phase 1A- Costco and Gas Station (2020)

Construction Phase	Start	End	Total Work Days (6 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Haul Trip Length (mi)	Year	Emission Factor (g/mi) PM10	Emission Factor (g/mi) PM2.5	Daily Emissions (lb/day) PM10	Daily Emissions (lb/day) PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 1A-Grading/Excavation	4/6/2020	5/10/2020	30	8	400	800	28	1.25	2020	7.27E-02	6.95E-02	5.60E-03	5.36E-03	8.82E-05	8.44E-05	7.05E-05	6.75E-05	10
Phase 1A-Drainage/Utilities/Sub-Grade	4/22/2020	4/29/2020	7	8	0	0	0	1.25	2020	7.27E-02	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1A-Foundations/Concrete Pour	4/29/2020	5/15/2020	15	8	600	1200	80	1.25	2020	7.27E-02	6.95E-02	1.60E-02	1.53E-02	2.52E-04	2.41E-04	2.02E-04	1.93E-04	10
Phase 1A-Building Construction	5/16/2020	7/24/2020	60	8	1050	2100	36	1.25	2020	7.27E-02	6.95E-02	7.20E-03	6.89E-03	1.13E-04	1.08E-04	9.07E-05	8.68E-05	10
Phase 1A-Architectural Coatings	5/28/2020	7/24/2020	50	8	0	0	0	1.25	2020	7.27E-02	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1A-Paving	7/17/2020	7/24/2020	7	8	7	14	2	1.25	2020	7.27E-02	6.95E-02	4.00E-04	3.83E-04	6.30E-06	6.03E-06	5.04E-06	4.82E-06	10
																3.68E-04	**3.52E-04**	

Construction Phase	Start	End	Total Work Days (6 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	Year	Emission Factor (g/min) PM10	Emission Factor (g/min) PM2.5	Daily Emissions (lb/day) PM10	Daily Emissions (lb/day) PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 1A-Grading/Excavation	4/6/2020	5/10/2020	30	8	400	800	28	15	2020	6.46E-04	6.18E-04	2.99E-04	2.86E-04	4.71E-06	4.51E-06	3.77E-06	3.61E-06	10
Phase 1A-Drainage/Utilities/Sub-Grade	4/22/2020	4/29/2020	7	8	0	0	0	15	2020	6.46E-04	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1A-Foundations/Concrete Pour	4/29/2020	5/15/2020	15	8	600	1200	80	15	2020	6.46E-04	6.18E-04	8.55E-04	8.18E-04	1.35E-05	1.29E-05	1.08E-05	1.03E-05	10
Phase 1A-Building Construction	5/16/2020	7/24/2020	60	8	1050	2100	36	15	2020	6.46E-04	6.18E-04	3.85E-04	3.68E-04	6.06E-06	5.79E-06	4.85E-06	4.64E-06	10
Phase 1A-Architectural Coatings	5/28/2020	7/24/2020	50	8	0	0	0	15	2020	6.46E-04	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1A-Paving	7/17/2020	7/24/2020	7	8	7	14	2	15	2020	6.46E-04	6.18E-04	2.14E-05	2.04E-05	3.36E-07	3.22E-07	2.69E-07	2.58E-07	10
										Idling events account for 1 iding event onsite						**1.96E-05**	**1.88E-05**	

Table 6: Phase 1B Construction Haul Truck Running and Idling Emissions

Phase 1B- Hotel and Retail (2020)

Construction Phase	Start	End	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Distance (mi)	Year	Emission Factor (g/mi) PM10	Emission Factor (g/mi) PM2.5	Daily Emissions (lb/day) PM10	Daily Emissions (lb/day) PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 1B-Grading/Excavation	4/6/2020	6/15/2020	51	8	340	680	14	1.25	2020	7.27E-02	6.95E-02	2.80E-03	2.68E-03	4.41E-05	4.22E-05	3.53E-05	3.37E-05	10
Phase 1B-Drainage/Utilities/Sub-Grade	6/16/2020	6/30/2020	11	8	0	0	0	1.25	2020	7.27E-02	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1B-Foundations/Concrete Pour	7/1/2020	7/30/2020	22	8	510	1020	48	1.25	2020	7.27E-02	6.95E-02	9.60E-03	9.18E-03	1.51E-04	1.45E-04	1.21E-04	1.16E-04	10
Phase 1B-Building Construction	7/31/2020	2/23/2021	148	8	972	1944	14	1.25	2020	7.27E-02	6.95E-02	2.80E-03	2.68E-03	4.41E-05	4.22E-05	3.53E-05	3.37E-05	10
Phase 1B-Architectural Coatings	2/24/2021	3/20/2021	18	8	0	0	0	1.25	2021	6.07E-02	5.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1B-Paving	3/21/2021	4/5/2021	11	8	11	22	2	1.25	2021	6.07E-02	5.81E-02	3.34E-04	3.20E-04	5.26E-06	5.03E-06	4.21E-06	4.03E-06	10
																1.96E-04	**1.87E-04**	

Construction Phase	Start	End	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	Year	Emission Factor (g/min) PM10	Emission Factor (g/min) PM2.5	aily Emissions (lb/da PM10	aily Emissions (lb/da PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 1B-Grading/Excavation	4/6/2020	6/15/2020	51	8	340	680	14	15	2020	6.46E-04	6.18E-04	1.50E-04	1.43E-04	2.36E-06	2.25E-06	1.88E-06	1.80E-06	10
Phase 1B-Drainage/Utilities/Sub-Grade	6/16/2020	6/30/2020	11	8	0	0	0	15	2020	6.46E-04	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1B-Foundations/Concrete Pour	7/1/2020	7/30/2020	22	8	510	1020	48	15	2020	6.46E-04	6.18E-04	5.13E-04	4.91E-04	8.08E-06	7.73E-06	6.46E-06	6.18E-06	10
Phase 1B-Building Construction	7/31/2020	2/23/2021	148	8	972	1944	14	15	2020	6.46E-04	6.18E-04	1.50E-04	1.43E-04	2.36E-06	2.25E-06	1.88E-06	1.80E-06	10
Phase 1B-Architectural Coatings	2/24/2021	3/20/2021	18	8	0	0	0	15	2021	5.51E-04	5.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 1B-Paving	3/21/2021	4/5/2021	11	8	11	22	2	15	2021	5.51E-04	5.28E-04	1.82E-05	1.74E-05	2.87E-07	2.75E-07	2.30E-07	2.20E-07	10
										Idling events account for 1 iding event onsite						**1.05E-05**	**1.00E-05**	

Table 7: Phase 2 Construction Haul Truck Running and Idling Emissions

Phase 2- Retail (2030)

Construction Phase	Start	End	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Distance (mi)	Year	Emission Factor (g/mi) PM10	Emission Factor (g/mi) PM2.5	Daily Emissions (lb/day) PM10	Daily Emissions (lb/day) PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 2-Demolition	1/7/2030	2/3/2030	20	8	382	764	40	1.25	2030	2.38E-02	2.28E-02	2.62E-03	2.51E-03	4.13E-05	3.95E-05	3.31E-05	3.16E-05	10
Phase 2-Grading/Excavation	2/4/2030	3/2/2030	20	8	518	1036	52	1.25	2030	2.38E-02	2.28E-02	3.41E-03	3.26E-03	5.37E-05	5.14E-05	4.30E-05	4.11E-05	10
Phase 2-Drainage/Utilities/Sub-Grade	3/3/2030	4/6/2030	25	8	0	0	0	1.25	2030	2.38E-02	2.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 2-Foundations/Concrete Pour	4/6/2030	4/28/2030	15	8	826	1652	112	1.25	2030	2.38E-02	2.28E-02	7.35E-03	7.03E-03	1.16E-04	1.11E-04	9.26E-05	8.86E-05	10
Phase 2-Building Construction	4/30/2030	11/11/2030	140	8	1582	3164	24	1.25	2030	2.38E-02	2.28E-02	1.57E-03	1.51E-03	2.48E-05	2.37E-05	1.98E-05	1.90E-05	10
Phase 2-Architectural Coatings	11/12/2030	12/9/2030	20	8	0	0	0	1.25	2030	2.38E-02	2.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 2-Paving	12/10/2030	1/7/2031	21	8	21	42	2	1.25	2030	2.38E-02	2.28E-02	1.31E-04	1.26E-04	2.07E-06	1.98E-06	1.65E-06	1.58E-06	10
																1.90E-04	**1.82E-04**	

Construction Phase	Start	End	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	Year	Emission Factor (g/min) PM10	Emission Factor (g/min) PM2.5	aily Emissions (lb/da PM10	aily Emissions (lb/da PM2.5	Hourly Average (g/s) PM10	Hourly Average (g/s) PM2.5	Daily Average (g/s) PM10	Daily Average (g/s) PM2.5	AERMOD Modeled Hours per Day
Phase 2-Demolition	1/7/2030	2/3/2030	20	8	382	764	40	15	2030	2.35E-04	2.25E-04	1.56E-04	1.49E-04	2.45E-06	2.35E-06	1.96E-06	1.88E-06	10
Phase 2-Grading/Excavation	2/4/2030	3/2/2030	20	8	518	1036	52	15	2030	2.35E-04	2.25E-04	2.02E-04	1.94E-04	3.19E-06	3.05E-06	2.55E-06	2.44E-06	10
Phase 2-Drainage/Utilities/Sub-Grade	3/3/2030	4/6/2030	25	8	0	0	0	15	2030	2.35E-04	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 2-Foundations/Concrete Pour	4/6/2030	4/28/2030	15	8	826	1652	112	15	2030	2.35E-04	2.25E-04	4.36E-04	4.17E-04	6.86E-06	6.57E-06	5.49E-06	5.25E-06	10
Phase 2-Building Construction	4/30/2030	11/11/2030	140	8	1582	3164	24	15	2030	2.35E-04	2.25E-04	9.34E-05	8.94E-05	1.47E-06	1.41E-06	1.18E-06	1.13E-06	10
Phase 2-Architectural Coatings	11/12/2030	12/9/2030	20	8	0	0	0	15	2030	2.35E-04	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	10
Phase 2-Paving	12/10/2030	1/7/2031	21	8	21	42	2	15	2030	2.35E-04	2.25E-04	7.78E-06	7.45E-06	1.23E-07	1.17E-07	9.81E-08	9.38E-08	10
Note:										Idling events account for 1 iding event onsite						**1.13E-05**	**1.08E-05**	

The City estimated project total truck for the grading/excavation and foundations/concrete pour for all phases, and building construction for Phase 1A, the truck trips of building construction of other phases were scaled based on landuse squarefeet as compared to Phase 1a. Paving phase is assumed to have one truck per day.

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Operational PM Emissions

Project Trip Generation

Table 1: Existing Trips Generation Estimates

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips	Saturday Trips
Church	20.000	1000sqft	9.00	10.50	180	210
General Retail	53.363	1000sqft	42.73	50.03	2,280	2,670
Office	15.070	1000sqft	11.28	2.65	170	40
Light Industrial	136.225	1000sqft	6.97	1.32	950	180
Vacant	**349.035**	1000sqft	0.00	0.00	0	0
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		***3,580***	***3,100***
Church	9.00	10.50	10.50			
General Retail	42.73	50.03	50.03			
Office	11.28	2.65	2.65			
Light Industrial	6.97	1.32	1.32			

Table 2: Updated Trips Generation Estimates (Phase 1)

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
General Retail	5.000	1000sqft	30.00	35.00	150	175
Club Retail with Fuel	148.000	1000sqft	47.03	59.80	6,960	8,850
Hotel (231 Rooms)	132.000	1000sqft	14.32	14.32	1,890	1,890
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		***9,000***	***10,915***
Retail	30.00	35.00	35.00			
Club Retail with Fuel	47.03	59.80	59.80			
Hotel (231 Rooms)[2]	8.18	8.18	8.18			

Land Use	Weighted Daily Trips (In/Out)
General Retail	158
Club Retail with Fuel	7,500
Hotel (231 Rooms)	1,890

Table 3: Updated Trips Generation Estimates (Phase 2)

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
Retail *	222.940	1000sqft	29.88	34.97	6,661	7,795
Light Industrial[3]	27.550	1000sqft	6.90	1.45	190	40
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		6,851	7,835
Retail	29.88	34.97	34.97			
Light Industrial	6.90	1.45	1.45			

*Does not include 5,000sf of retail from Phase 1

Land Use	Weighted Daily Trips (In/Out)
General Retail	6,986

Table 4: Full Buildout Trip Generation Estimates

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
General Retail	5.00	1000sqft	30.000	35.000	150	175
Club Retail with Fuel	148.00	1000sqft	47.027	59.797	6,960	8,850
Hotel (231 Rooms)	132.00	1000sqft	14.318	14.318	1,890	1,890
Retail *	222.94	1000sqft	29.876	34.965	6,661	7,795
Light Industrial[3]	27.55	1000sqft	6.897	1.452	190	40
				Project Buildout	15,851	18,750
				Existing	3,580	3,100
				Net New Trips	12,271	15,650

Hotel/Retail Trucks

Land Use	Weighted Daily Truck Trips (In/Out)	Weighted Daily Trucks
Phase 1-Retail	4.6	2.3
Phase 1-Hotel	55.1	27.6
Phase 2-Retail	204	102

1) Johnson Drive Economic Development Zone Transportation Impact Analysis, Fehr & Peers, 2015.

2) CalEEMod uses vehicle trips per room instead of SF

3) Not including trucks for Light Industrial since it will remain unchanged

Table 12: Toxic Speciation of TOG due to Tailpipe Emissions

Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	Unit Factor	(HARP) Residential Cancer Risk Factors $(ug/m^3)^{-1}$	Unit Cancer Risk Weighted Factor $(ug/m^3)^{-1}$	Chronic Noncancer Reference Dose (ug/m^3)	Unit Chronic Noncancer Risk Weighted Factor (ug/m^3)	Acute Noncancer Reference Dose (ug/m^3)	Unit ACUTE Noncancer Risk Weighted Factor (ug/m^3)
Acetaldehyde	0.28%	0.0028	0	7.537E-09	140	0	470	1
Acrolein	0.13%	0.0013	0	0	0	0	3	0
Benzene	2.47%	0.0247	0	7.169E-07	60	1	1300	32
1,3-Butadiene	0.55%	0.0055	0	9.487E-07	20	0	0	0
Ethylbenzene	1.05%	0.0105	2.52E-06	2.643E-08	2000	21	0	0
Formaldehyde	1.58%	0.0158	6.08E-06	9.602E-08	9	0	55	1
Hexane	1.60%	0.0160	0	0	7000	112	0	0
Methanol	0.12%	0.0012	0	0	4000	5	28000	34
Methyl Ethyl Ketone	0.02%	0.0002	0	0	0	0	13000	2
Naphthalene	0.05%	0.0005	0	1.641E-08	9	0	0	0
Propylene	3.06%	0.0306	0	0	3000	92	0	0
Styrene	0.12%	0.0012	0	0	900	1	21000	26
Toluene	5.76%	0.0576	0	0	300	17	37000	2130
Xylenes	4.80%	0.0480	0	0	700	34	22000	1056
Toxicity Weighted Factor				**1.81E-06**		**283.77**		**3282.58**

Table 13: Toxic Speciation of TOG due to Evaporative Losses

Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	Unit Factor	(HARP) Residential Cancer Risk Factors $(ug/m^3)^{-1}$	Unit Cancer Risk Weighted Factor $(ug/m^3)^{-1}$	Chronic Noncancer Reference Dose (ug/m^3)	Unit Chronic Noncancer Risk Weighted Factor (ug/m^3)	Acute Noncancer Reference Dose (ug/m^3)	Unit ACUTE Noncancer Risk Weighted Factor (ug/m^3)
Benzene	0.36%	3.60E-03	2.90E-05	1.04E-07	6.00E+01	2.16E-01	1.30E+03	4.68E+00
Ethylbenzene	0.12%	1.18E-03	2.52E-06	2.97E-09	2000	2.36E+00	0	0
Hexane	1.54%	1.54E-02	0	0	7000	1.08E+02	0	0
Toluene	1.70%	1.70E-02	0	0	300	5.11E+00	3.70E+04	6.30E+02
Xylenes	0.58%	5.78E-03	0	0	700	4.05E+00	2.20E+04	1.27E+02
Toxicity Weighted Factor				**1.07E-07**		**120**		**762**

Source: BAAQMD, Recommended Methods for Screening and Modeling Local Risks and Hazards, May 2012

TRU Operation

Table 5: TRU Operations Emissions

Source	Input	PM10 (DPM)	PM2.5	PM10 (DPM)	PM2.5		
Costco							
Daily Trucks[1]	10						
Trucks per Hour	1						
Percent box trucks with TRUs[1]	75%						
TRU operation/trip (hrs)[1]	2	**lbs/hr**		**lbs/year**		**g/s[4]**	
Annual hours of TRU operation	5,475	6.90E-04	6.90E-04	3.78E+00	3.78E+00	1.18E-04	
				Daily Average Emissions (lbs/day)			
				1.03E-02	1.03E-02		
Phase 1 - Retail/Hotel							
Daily one-way trips	60						
Daily Trucks	30						
Trucks per Hour	3						
Percent semi trucks with TRUs[1]	25%						
TRU operation/trip (hrs)[1]	2	**lbs/hr**		**lbs/year**		**g/s**	
Annual hours of TRU operation	5,452	5.15E-04	5.15E-04	3.76E+00	3.76E+00	5.41E-05	
				Daily Average Emissions (lbs/day)			
				1.03E-02	1.03E-02		
Phase 2 - Onsite Businesses							
Daily one-way trips	204						
Daily Trucks	102						
Trucks per Hour	10						
Percent semi trucks with TRUs[1]	25%						
TRU operation/trip (hrs)[1]	2	**lbs/hr**		**lbs/year**		**g/s**	**AERMOD Emission Rate**
Annual hours of TRU operation	18,615	1.76E-03	1.76E-03	1.28E+01	1.28E+01	1.85E-04	4.62E-05
				Daily Average Emissions (lbs/day)			
				3.52E-02	3.52E-02		
FEDEX							
Daily Trucks1	390						
Trucks per Hour	39						
Percent box trucks with TRUs1	25%						
TRU operation/trip (hrs)1	2	**lbs/hr**		**lbs/year**		**g/s[4]**	
Annual hours of TRU operation	71,175	1.76E-03	1.76E-03	4.91E+01	4.91E+01	2.18E-03	
				Daily Average Emissions (lbs/day)			
				1.34E-01	1.34E-01		

Parameters for TRU Trucks	
TRU horsepower[2]	34
TRU load factor	0.46
ROG[5,6,7,8]	0.23
NOX[5,6]	3.33
Ultra-Low Emission TRU emission factor (g/hp-hr)[3]	0.02

Notes:

1 Johnson Drive HRA Assumptions
2 ARB 2011 Staff Report: Amendments for the ATCM for TRUs, table III-1: https://www.arb.ca.gov/regact/2011/tru2011/truisor.pdf
3 Required per ARB ATCM, section 2477.5 (b), table 6: https://www.arb.ca.gov/diesel/tru/documents/fro_10-16-12.pdf
4 Calculation takes variable emissions into account
5 Table 1, https://www.arb.ca.gov/msei/ordiesel/ordas_ef_fcf_2017.pdf
6 http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx
7 NMHC/HC based on EPA conversion factor. https://nepis.epa.gov/Exe/ZyPDF.cgi/P10081RP.PDF?Dockey=P10081RP.PDF
8 ROG/HC based on CARB recommended conversion factor. https://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmp_appd_4_28_11.pdf

Table 6: Costco Emergency Generator Emissions

Conversion Factors	
HP/kW	1.3410
PM10 Fraction of Total PM[1]	0.960
PM2.5 Fraction of Total PM[2]	0.937
NMHC frac - diesel[3]	5%
NOX frac - diesel[3]	95%
Rati kW	1,000
HP	1,341
Load Factor[4]:	0.74
Operating Hours per Unit[5]:	2
	50

Emergency Generator Emissions

Units	PM10	PM2.5
g/kW-hr	—	—
g/HP-hr[6]	0.1440	0.1406
lbs/hr	0.32	0.31
lbs/day	**0.63**	**0.61**
lbs/yr	15.75	15.37
Avg lbs/day	0.04	0.04
tons/yr	7.88E-03	7.69E-03
metric tons/yr	—	—
g/s[7]	4.91E-04	0.000479

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

3 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox:
http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

4 Load Factor based on CalEEMod Generator Set Load Factor

5 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

6 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+:

7 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr, using the same

Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced above.

Source: ESA 2018.

Table 7: Hotel Emergency Generator Emissions

Conversion Factors

HP/kW	1.3410
PM10 Fraction of Total PM[1]	0.960
PM2.5 Fraction of Total PM[2]	0.937
NMHC frac - diesel[3]	5%
NOX frac - diesel[3]	95%
Ratings:	1,000
	1,341
Load Factor[4]:	0.74
Operating Hours per Unit[5]:	2
	50

Emergency Generator Emissions

Units	PM10	PM2.5
g/kW-hr	—	—
g/HP-hr[6]	0.1440	0.1406
lbs/hr	0.32	0.31
lbs/day	**0.63**	**0.61**
lbs/yr	15.75	15.37
Avg lbs/day	0.04	0.04
tons/yr	**7.88E-03**	**7.69E-03**
metric tons/yr	—	—
g/s[7]	5.44E-04	5.31E-04

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

3 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

4 Load Factor based on CalEEMod Generator Set Load Factor

5 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

6 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+:

7 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr, using the same

Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced ab

Source: ESA 2018.

Light-Duty Vehicle Emissions

Table 9: Light-Duty Vehicle Emissions for each Phase

Phase	Trips per Day (In/Out)	Trips per Hour (In/Out)	Roundtrips/Car Starts per Day	Roundtrips/Car Starts per Hour	Trip Distance (mi)	# of Cars Idling per Day	# of Cars Idling per Hour	Idling Duration (min) [2]	Speed (mph)	# of Hours a car is off onsite	Car Shutoffs per Trip per day
Phase 1A-Costco	7500	750	3750	375	0.69010				40	2	1
Phase 1A-Costco Gas Station [1]	3371	337	1686	169		1686	169	10	40	0.25	1
Phase 1B-Retail	158	16	79	8	0.69010				40	2	1
Phase 1B-Hotel (231 Rooms)	1890	189	945	95	0.69010				40	12	1
Phase 2-Retail	6986	699	3493	349	0.69010				40	2	1

1. Costco trips given in the Traffic Study include trips to both the store and gas station. Therefore, running emissions has been accounted for in the Phase 1A-Costco row, and gas station trips that were estimated based on CALEEMOD default are assumed to be part of the total Costco trips and only used for estimating other emissions (e.g., idling and startup) at the gas station.

2. ESA assumes a 10 minute idling time for each car waiting in line at Costco Gas Station.

Emission Factors

Year	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	g/mi	g/min	g/trip	g/trip	g/vehicle/hour	g/trip	g/vehicle/hour	g/mi	g/min	g/trip
2021	2.15E-02	1.79E-03	3.68E-01	2.67E-02	1.02E-02	2.61E-01	5.37E-03	1.45E-03	1.21E-04	1.89E-03
2031	6.34E-03	5.28E-04	1.61E-01	1.89E-02	6.68E-03	1.57E-01	3.17E-03	8.70E-04	7.25E-05	1.21E-03

Emissions

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/day)									
Phase 1A-Costco	2.45E-01	0.00E+00	3.04E+00	4.42E-01	1.68E-01	2.16E+00	8.88E-02	1.65E-02	0.00E+00	1.56E-02
Phase 1A-Costco Gas Station	0.00E+00	6.65E-02	1.37E+00	1.98E-01	9.46E-03	9.71E-01	4.99E-03	0.00E+00	4.49E-03	7.02E-03
Phase 1B-Retail	5.16E-03	0.00E+00	6.41E-02	9.30E-03	3.55E-03	4.55E-02	1.87E-03	3.48E-04	0.00E+00	3.29E-04
Phase 1B-Hotel (231 Rooms)	6.18E-02	0.00E+00	7.66E-01	1.11E-01	2.55E-01	5.45E-01	1.34E-01	4.17E-03	0.00E+00	3.93E-03
Phase 2-Retail	6.74E-02	0.00E+00	1.24E+00	2.91E-01	1.03E-01	1.21E+00	4.88E-02	9.25E-03	0.00E+00	9.33E-03

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/year)									
Phase 1A-Costco	8.95E+01	0.00E+00	1.11E+03	1.61E+02	6.15E+01	7.89E+02	3.24E+01	6.04E+00	0.00E+00	5.70E+00
Phase 1A-Costco Gas Station	0.00E+00	2.43E+01	4.99E+02	7.25E+01	3.45E+00	3.55E+02	1.82E+00	0.00E+00	1.64E+00	2.56E+00
Phase 1B-Retail	1.88E+00	0.00E+00	2.34E+01	3.40E+00	1.30E+00	1.66E+01	6.83E-01	1.27E-01	0.00E+00	1.20E-01
Phase 1B-Hotel (231 Rooms)	2.25E+01	0.00E+00	2.80E+02	4.06E+01	9.29E+01	1.99E+02	4.90E+01	1.52E+00	0.00E+00	1.44E+00
Phase 2-Retail	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

Table 10: Annual PM2.5 Emission Rates for AERMOD

Annual AERMOD PM2.5 Emission Rates	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX	Phase 1 AERMOD Emission Rate	AERMOD Emission Rate
Phase	Emissions (g/s)										Running Exhaust	Idling Exhaust
Phase 1A-Costco[1]	1.29E-03	0.00E+00	1.60E-02	2.32E-03	8.84E-04	1.13E-02	4.66E-04	1.88E-04	0.00E+00	1.78E-04	3.66E-04	
Phase 1A-Costco Gas Station[1]	0.00E+00	3.49E-04	7.18E-03	1.04E-03	4.97E-05	5.10E-03	2.62E-05	0.00E+00	3.79E-05	5.92E-05	5.92E-05	7.58E-06
Phase 1B-Retail	2.71E-05	0.00E+00	3.36E-04	4.88E-05	1.86E-05	2.39E-04	9.82E-06	1.83E-06	0.00E+00	1.73E-06	3.56E-06	
Phase 1B-Hotel (231 Rooms)	3.24E-04	0.00E+00	4.02E-03	5.84E-04	1.34E-03	2.86E-03	7.05E-04	2.19E-05	0.00E+00	2.07E-05	4.25E-05	
Phase 2-Retail	3.54E-04	0.00E+00	6.50E-03	1.53E-03	5.40E-04	6.37E-03	2.56E-04	4.85E-05	0.00E+00	4.90E-05	9.75E-05	

Emissions Summary

Annual Emissions	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
Phase	Emissions (lb/year)									
Phase 1 Emissions	1.14E+02	2.43E+01	1.91E+03	2.78E+02	1.59E+02	1.36E+03	8.39E+01	7.69E+00	1.64E+00	9.82E+00
Phase 2 Emissions	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

1) PM2.5 Emission rate account for variable emissions

Table 9: Light-Duty Vehicle Idling Emissions at Gas Station

Phase	Trips per Day (In/Out)	# of Cars Idling per Day	Idling Duration (min)
Phase 1A-Costco Gas Station	3371	1686	10

Emission Factors

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
g/min				g/min				g/min			
8.11E-03	1.04E-02	8.85E-04	8.46E-04	2.71E-03	4.08E-03	5.75E-04	5.28E-04	2.47E-03	3.83E-03	5.40E-04	4.96E-04

Daily Emissions

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
lbs/day				lbs/day				lbs/day			
3.01E-01	3.85E-01	3.29E-02	3.14E-02	1.01E-01	1.51E-01	2.14E-02	1.96E-02	9.18E-02	1.42E-01	2.01E-02	1.84E-02

Annual Emissions

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
lbs/year				lbs/year				lbs/year			
110.0	140.5	12.0	11.5	36.7	55.3	7.8	7.2	33.5	51.9	7.3	6.7
Tons/year				Tons/year				Tons/year			
0.0550	0.0702	0.0060	0.0057	0.0183	0.0276	0.0039	0.0036	0.0168	0.0260	0.0037	0.0034

Full Buildout Light-Duty Vehicle Emissions

Table 11: Light-Duty Vehicle Emissions for Full Buildout Phases (2031 EF)

Phase	Trips per Day (In/Out)	Trips per Hour (In/Out)	Roundtrips/Car Starts per Day	Roundtrips/Car Starts per Hour	Trip Distance (mi)	# of Cars Idling per Day	# of Cars Idling per Hour	Idling Duration (min) [2]	Speed (mph)	# of Hours a car is off onsite	Car Shutoffs per Trip per day
Phase 1A-Costco	7500	750	3750	375	0.69010				40	2	1
Phase 1A-Costco Gas Station [1]	3371	337	1686	169		1686	169	10	40	0.25	1
Phase 1B-Retail	158	16	79	8	0.69010				40	2	1
Phase 1B-Hotel (231 Rooms)	1890	189	945	95	0.69010				40	12	1
Phase 2-Retail	6986	699	3493	349	0.69010				40	2	1

1. Costco trips given in the Traffic Study include trips to both the store and gas station. Therefore, running emissions has been accounted for in the Phase 1A-Costco row, and gas station trips that were estimated based on CALEEMOD default are assumed to be part of the total Costco trips and only used for estimating other emissions (e.g., idling and startup) at the gas station.
2. ESA assumes a 10 minute idling time for each car waiting in line at Costco Gas Station.

Emission Factors

Year	TOG RUNEX g/mi	TOG IDLEX g/min	TOG STREX g/trip	TOG RUNLOSS g/trip	TOG RESTLOSS g/vehicle/hour	TOG HOTSOAK g/trip	TOG DIURN our	PM2.5 RUNEX g/mi	PM2.5 IDLEX g/min	PM2.5 STREX g/trip
2021	2.15E-02	1.79E-03	3.68E-01	2.67E-02	1.02E-02	2.61E-01	5.37E-03	1.45E-03	1.21E-04	1.89E-03
2031	6.34E-03	5.28E-04	1.61E-01	1.89E-02	6.68E-03	1.57E-01	3.17E-03	8.70E-04	7.25E-05	1.21E-03

Emissions

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/day)									
Phase 1A-Costco	2.45E-01	0.00E+00	3.04E+00	4.42E-01	1.68E-01	2.16E+00	8.88E-02	1.65E-02	0.00E+00	1.56E-02
Phase 1A-Costco Gas Station	0.00E+00	6.65E-02	1.37E+00	1.98E-01	9.46E-03	9.71E-01	4.99E-03	0.00E+00	4.49E-03	7.02E-03
Phase 1B-Retail	5.16E-03	0.00E+00	6.41E-02	9.30E-03	3.55E-03	4.55E-02	1.87E-03	3.48E-04	0.00E+00	3.29E-04
Phase 1B-Hotel (231 Rooms)	6.18E-02	0.00E+00	7.66E-01	1.11E-01	2.55E-01	5.45E-01	1.34E-01	4.17E-03	0.00E+00	3.93E-03
Phase 2-Retail	6.74E-02	0.00E+00	1.24E+00	2.91E-01	1.03E-01	1.21E+00	4.88E-02	9.25E-03	0.00E+00	9.33E-03

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/year)									
Phase 1A-Costco	8.95E+01	0.00E+00	1.11E+03	1.61E+02	6.15E+01	7.89E+02	3.24E+01	6.04E+00	0.00E+00	5.70E+00
Phase 1A-Costco Gas Station	0.00E+00	2.43E+01	4.99E+02	7.25E+01	3.45E+00	3.55E+02	1.82E+00	0.00E+00	1.64E+00	2.56E+00
Phase 1B-Retail	1.88E+00	0.00E+00	2.34E+01	3.40E+00	1.30E+00	1.66E+01	6.83E-01	1.27E-01	0.00E+00	1.20E-01
Phase 1B-Hotel (231 Rooms)	2.25E+01	0.00E+00	2.80E+02	4.06E+01	9.29E+01	1.99E+02	4.90E+01	1.52E+00	0.00E+00	1.44E+00
Phase 2-Retail	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

Table 12: Annual PM2.5 Emission Rates for AERMOD (2031 EF)

Annual AERMOD PM2.5 Emission Rates	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX	AERMOD Emission Rate (g/s)	AERMOD Emission Rate (g/s)
Phase	Emissions (g/s)										Running	Idling Exhaust
Phase 1A-Costco[1]	1.29E-03	0.00E+00	1.60E-02	2.32E-03	8.84E-04	1.13E-02	4.66E-04	1.88E-04	0.00E+00	1.78E-04	0.000366	
Phase 1A-Costco Gas Station[1]	0.00E+00	3.49E-04	7.18E-03	1.04E-03	4.97E-05	5.10E-03	2.62E-05	0.00E+00	3.79E-05	5.92E-05	0.000059	0.000008
Phase 1B-Retail	2.71E-05	0.00E+00	3.36E-04	4.88E-05	1.86E-05	2.39E-04	9.82E-06	1.83E-06	0.00E+00	1.73E-06	0.000004	
Phase 1B-Hotel (231 Rooms)	3.24E-04	0.00E+00	4.02E-03	5.84E-04	1.34E-03	2.86E-03	7.05E-04	2.19E-05	0.00E+00	2.07E-05	0.000043	
Phase 2-Retail	3.54E-04	0.00E+00	6.50E-03	1.53E-03	5.40E-04	6.37E-03	2.56E-04	4.85E-05	0.00E+00	4.90E-05		

Emissions Summary

Annual Emissions	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
Phase	Emissions (lb/year)									
Phase 1 Emissions	1.14E+02	2.43E+01	1.91E+03	2.78E+02	1.59E+02	1.36E+03	8.39E+01	7.69E+00	1.64E+00	9.82E+00
Phase 2 Emissions	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

1) PM2.5 Emission rate account for variable emissions

Full Buildout Light-Duty Vehicle Emissions

Table 11: Light-Duty Vehicle Emissions for Full Buildout Phases (2031 EF)

Phase	Trips per Day (In/Out)	Trips per Hour (In/Out)	Roundtrips/Car Starts per Day	Roundtrips/Car Starts per Hour	Trip Distance (mi)	# of Cars Idling per Day	# of Cars Idling per Hour	Idling Duration (min) [2]	Speed (mph)	# of Hours a car is off onsite	Car Shutoffs per Trip per day
Phase 1A-Costco	7500	750	3750	375	0.69010				40	2	1
Phase 1A-Costco Gas Station [1]	3371	337	1686	169		1686	169	10	40	0.25	1
Phase 1B-Retail	158	16	79	8	0.69010				40	2	1
Phase 1B-Hotel (231 Rooms)	1890	189	945	95	0.69010				40	12	1
Phase 2-Retail	6986	699	3493	349	0.69010				40	2	1

1. Costco trips given in the Traffic Study include trips to both the store and gas station. Therefore, running emissions has been accounted for in the Phase 1A-Costco row, and gas station trips that were estimated based on CALEEMOD default are assumed to be part of the total Costco trips and only used for estimating other emissions (e.g., idling and startup) at the gas station.
2. ESA assumes a 10 minute idling time for each car waiting in line at Costco Gas Station.

Emission Factors

Year	TOG RUNEX g/mi	TOG IDLEX g/min	TOG STREX g/trip	TOG RUNLOSS g/trip	TOG RESTLOSS g/vehicle/hour	TOG HOTSOAK g/trip	TOG DIURN our	PM2.5 RUNEX g/mi	PM2.5 IDLEX g/min	PM2.5 STREX g/trip
2031	6.34E-03	5.28E-04	1.61E-01	1.89E-02	6.68E-03	1.57E-01	3.17E-03	8.70E-04	7.25E-05	1.21E-03
2031	6.34E-03	5.28E-04	1.61E-01	1.89E-02	6.68E-03	1.57E-01	3.17E-03	8.70E-04	7.25E-05	1.21E-03

Emissions

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/day)									
Phase 1A-Costco	7.23E-02	0.00E+00	1.33E+00	3.13E-01	1.10E-01	1.30E+00	5.23E-02	9.93E-03	0.00E+00	1.00E-02
Phase 1A-Costco Gas Station	0.00E+00	1.96E-02	5.97E-01	1.41E-01	6.20E-03	5.85E-01	2.94E-03	0.00E+00	2.69E-03	4.50E-03
Phase 1B-Retail	1.52E-03	0.00E+00	2.80E-02	6.58E-03	2.33E-03	2.74E-02	1.10E-03	2.09E-04	0.00E+00	2.11E-04
Phase 1B-Hotel (231 Rooms)	1.82E-02	0.00E+00	3.35E-01	7.88E-02	1.67E-01	3.28E-01	7.91E-02	2.50E-03	0.00E+00	2.52E-03
Phase 2-Retail	6.74E-02	0.00E+00	1.24E+00	2.91E-01	1.03E-01	1.21E+00	4.88E-02	9.25E-03	0.00E+00	9.33E-03

Phase	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
	Emissions (lb/year)									
Phase 1A-Costco	2.64E+01	0.00E+00	4.85E+02	1.14E+02	4.03E+01	4.75E+02	1.91E+01	3.62E+00	0.00E+00	3.66E+00
Phase 1A-Costco Gas Station	0.00E+00	7.16E+00	2.18E+02	5.13E+01	2.26E+00	2.14E+02	1.07E+00	0.00E+00	9.83E-01	1.64E+00
Phase 1B-Retail	5.56E-01	0.00E+00	1.02E+01	2.40E+00	8.49E-01	1.00E+01	4.03E-01	7.63E-02	0.00E+00	7.70E-02
Phase 1B-Hotel (231 Rooms)	6.65E+00	0.00E+00	1.22E+02	2.88E+01	6.09E+01	1.20E+02	2.89E+01	9.13E-01	0.00E+00	9.22E-01
Phase 2-Retail	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

Table 12: Annual PM2.5 Emission Rates for AERMOD (2031 EF)

Annual AERMOD PM2.5 Emission Rates	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX	AERMOD Emission Rate (g/s)	AERMOD Emission Rate (g/s)
Phase	Emissions (g/s)										Running	Idling Exhaust
Phase 1A-Costco[1]	3.80E-04	0.00E+00	6.97E-03	1.64E-03	5.80E-04	6.83E-03	2.75E-04	1.13E-04	0.00E+00	1.14E-04	0.000227	
Phase 1A-Costco Gas Station[1]	0.00E+00	1.03E-04	3.13E-03	7.38E-04	3.26E-05	3.07E-03	1.54E-05	0.00E+00	2.27E-05	3.80E-05	0.000038	0.000005
Phase 1B-Retail	8.00E-06	0.00E+00	1.47E-04	3.46E-05	1.22E-05	1.44E-04	5.79E-06	1.10E-06	0.00E+00	1.11E-06	0.000002	
Phase 1B-Hotel (231 Rooms)	9.57E-05	0.00E+00	1.76E-03	4.14E-04	8.76E-04	1.72E-03	4.16E-04	1.31E-05	0.00E+00	1.33E-05	0.000026	
Phase 2-Retail	3.54E-04	0.00E+00	6.50E-03	1.53E-03	5.40E-04	6.37E-03	2.56E-04	4.85E-05	0.00E+00	4.90E-05	0.000098	

Emissions Summary

Annual Emissions	TOG RUNEX	TOG IDLEX	TOG STREX	TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX
Phase	Emissions (lb/year)									
Phase 1 Emissions	3.36E+01	7.16E+00	8.35E+02	1.97E+02	1.04E+02	8.18E+02	4.95E+01	4.61E+00	9.83E-01	6.30E+00
Phase 2 Emissions	2.46E+01	0.00E+00	4.52E+02	1.06E+02	3.75E+01	4.43E+02	1.78E+01	3.37E+00	0.00E+00	3.41E+00

1) PM2.5 Emission rate account for variable emissions

Table 8: Gas Station Evaporative TOG Emissions

Annual Gasoline Throughput (gal)[1]
24,000,000

Emission Factors for Enhance Vapor Recovery System [2]				
lb/kgal			Fueling	
0.06888	0.42		Non-ORVR Vehicles [3]	12%
	0.021		ORVR Vehicles [3]	88%
0.15			Bulk Transfer Losses	
0.024			Pressure Driven Losses	
0.24			Fueling - Spillage	
0.009			Gasoline Hose Losses	
0.49188			**Total**	

	UST Vent Pipe TOG Emissions		TOG Emissions at Pumps		
	Loading	Breathing	Refueling	Spillage	
	lb/year				Total
4.18E+03	**3.60E+03**	**5.76E+02**	**1.87E+03**	**5.76E+03**	1.18E+04

1 Johnson Drive HRA Assumptions

2 Emission factors from CARB "Revised Emissions Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities". December 23, 2013 (CARB, 2013). Assumes use of enhanced vapor recovery systems

3 Based on CARB "Revised Emissions Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities". Attachment 1, Table 1-2 (CARB, 2014), by year 2021 , 87% vehicles served at gas stations will be ORVR vehicles. The emission factors for fueling is the composition emission factor based on the two types of vehicles.

Table 21: Phase 1 Light-Duty Vehicle Speciated TOG Emissions (Annual)

TOG RUNEX	TOG IDLEX	TOG STREX
lb/year		
113.88	24.28	1911.92

Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	RunEx	IdleEx	Start Ex	Total (lb/year)
		Speciated Annual Emission Rate (lb/year)			
Acetaldehyde	0.28%	3.19E-01	6.80E-02	5.35E+00	5.74E+00
Acrolein	0.13%	1.48E-01	3.16E-02	2.49E+00	2.67E+00
Benzene	2.47%	2.81E+00	6.00E-01	4.72E+01	5.06E+01
1,3-Butadiene	0.55%	6.26E-01	1.34E-01	1.05E+01	1.13E+01
Ethylbenzene	1.05%	1.20E+00	2.55E-01	2.01E+01	2.15E+01
Formaldehyde	1.58%	1.80E+00	3.84E-01	3.02E+01	3.24E+01
Hexane	1.60%	1.82E+00	3.88E-01	3.06E+01	3.28E+01
Methanol	0.12%	1.37E-01	2.91E-02	2.29E+00	2.46E+00
Methyl Ethyl Ketone	0.02%	2.28E-02	4.86E-03	3.82E-01	4.10E-01
Naphthalene	0.05%	5.69E-02	1.21E-02	9.56E-01	1.03E+00
Propylene	3.06%	3.48E+00	7.43E-01	5.85E+01	6.27E+01
Styrene	0.12%	1.37E-01	2.91E-02	2.29E+00	2.46E+00
Toluene	5.76%	6.56E+00	1.40E+00	1.10E+02	1.18E+02
Xylenes	4.80%	5.47E+00	1.17E+00	9.18E+01	9.84E+01

TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN
lb/year			
277.65	159.17	1358.88	83.94

Phase 1 Speciated TOG Evaporative Emissions		TOG_RUNLOSS	TOG_RESTLOSS	TOG_HOTSOAK	TOG_DIURN	
Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	Speciated Annual Emission Rate (lb/year)				Total (lb/year)
Benzene	0.36%	1.00E+00	5.73E-01	4.89E+00	3.02E-01	6.77E+00
Ethylbenzene	0.12%	3.33E-01	1.91E-01	1.63E+00	1.01E-01	2.26E+00
Hexane	1.54%	4.28E+00	2.45E+00	2.09E+01	1.29E+00	2.89E+01
Toluene	1.70%	4.72E+00	2.71E+00	2.31E+01	1.43E+00	3.20E+01
Xylenes	0.58%	1.61E+00	9.23E-01	7.88E+00	4.87E-01	1.09E+01

Table 22: Phase 2 Light-Duty Vehicle Speciated TOG Emissions (Annual)

TOG RUNEX	TOG IDLEX	TOG STREX
lb/year		
2.46E+01	0.00E+00	4.52E+02

Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	RunEx	IdleEx	Start Ex	Total (lb/year)
		Speciated Annual Emission Rate (lb/year)			
Acetaldehyde	0.28%	6.88E-02	0.00E+00	1.26E+00	1.33E+00
Acrolein	0.13%	3.20E-02	0.00E+00	5.87E-01	6.19E-01
Benzene	2.47%	6.07E-01	0.00E+00	1.12E+01	1.18E+01
1,3-Butadiene	0.55%	1.35E-01	0.00E+00	2.48E+00	2.62E+00
Ethylbenzene	1.05%	2.58E-01	0.00E+00	4.74E+00	5.00E+00
Formaldehyde	1.58%	3.88E-01	0.00E+00	7.14E+00	7.52E+00
Hexane	1.60%	3.93E-01	0.00E+00	7.23E+00	7.62E+00
Methanol	0.12%	2.95E-02	0.00E+00	5.42E-01	5.71E-01
Methyl Ethyl Ketone	0.02%	4.92E-03	0.00E+00	9.03E-02	9.52E-02
Naphthalene	0.05%	1.23E-02	0.00E+00	2.26E-01	2.38E-01
Propylene	3.06%	7.52E-01	0.00E+00	1.38E+01	1.46E+01
Styrene	0.12%	2.95E-02	0.00E+00	5.42E-01	5.71E-01
Toluene	5.76%	1.42E+00	0.00E+00	2.60E+01	2.74E+01
Xylenes	4.80%	1.18E+00	0.00E+00	2.17E+01	2.29E+01

TOG RUNLOSS	TOG RESTLOSS	TOG HOTSOAK	TOG DIURN
lb/year			
106.27	37.54	442.58	17.80

Phase 2 Speciated TOG Evaporative Emissions		TOG_RUNLOSS	TOG_RESTLOSS	TOG_HOTSOAK	TOG_DIURN	
Toxic Compounds	EMFAC Gasoline TOG Speciation (% TOG)	Speciated Annual Emission Rate (lb/year)				Total (lb/year)
Benzene	0.36%	3.83E-01	1.35E-01	1.59E+00	6.41E-02	2.18E+00
Ethylbenzene	0.12%	1.28E-01	4.50E-02	5.31E-01	2.14E-02	7.25E-01
Hexane	1.54%	1.64E+00	5.78E-01	6.82E+00	2.74E-01	9.30E+00
Toluene	1.70%	1.81E+00	6.38E-01	7.52E+00	3.03E-01	1.03E+01
Xylenes	0.58%	6.16E-01	2.18E-01	2.57E+00	1.03E-01	3.50E+00

Table 18: Phase 1 Operational TOG Emissions Summary

TOG Type	Phase	Sources	Source Group	Variable Emissions?	Hours per day	lb/year	lb/year (adjusted)
Exhaust	Phase 1	Light-Duty Cars TOG Exhaust	LD-EXH	No	0	2025.80	2025.80
	Phase 1	Gas Station Light-Duty Idling	LD-IDLE	Yes	15	24.28	39.03
Evaporative	Phase 1	Light-Duty Cars TOG Evaporative	LD-EXH	No	0	1879.64	1879.64
	Phase 1	Gas Station Car Fueling	GAS-FUEL	Yes	15	1869.12	3004.90
	Phase 1	Gas Station Car Spillage	GAS-SPIL	Yes	15	5760.00	9260.10
	Phase 1	Gas Station Vent Pipes	GAS-VENT	No	0	4176.00	4176.00

Table 19: Phase 2 Sources' Operational Total Organic Gas Emissions Summary

Phase	Sources	Source Group	Variable Emissions?	Hours per day	lb/year	lb/year (adjusted)
Phase 2	Light-Duty Cars TOG Exhaust	LD-EXH	No	0	4.76E+02	4.76E+02
Phase 2	Light-Duty Cars TOG Evaporative	LD-EXH	No	0	6.04E+02	6.04E+02

Table 10: HHDT Running and Starting Exhaust Emissions

Williams, California 95987	# of Trucks per Day	Truck Trips per Day (In/Out)	Truck Trips per Hour (In/Out)	Trip Length (mi)
Fedex	390	780	78	0.152
Costco	10	20	2	0.706
Gas Station	8	16	2	0.706
Phase 1 - Retail/Hotel	30	60	6	0.152
Phase 2- Trucks	102	204	20	0.690

Emissions Factors

	2021								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
	Emission Factor (g/mi)								Emission Factor (g/mi)							
Running - Costco Trucks			2.49E-02			2.38E-02					2.84E-02			2.72E-02		
Running - All Other Trucks			6.07E-02			5.81E-02					2.37E-02			2.27E-02		
Starting - Costco Trucks																
Starting - All Other Trucks																

DAILY	2021								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
Source	Emissions (lb/day)								Emissions (lb/day)							
Fedex			0.0159			0.0152					0.0062			0.0059		
Costco			0.0008			0.0007					0.0009			0.0008		
Gas Station			0.0006			0.0006					0.0007			0.0007		
Phase 1 - Retail/Hotel			0.0012			0.0012					0.0005			0.0005		
Phase 2- Trucks			0.0188			0.0180					0.0074			0.0070		
Phase 1			0.0			0.0					0.0			0.0		
Full Buildout			0.0			0.0					0.0			0.0		

ANNUAL	2021								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
Source	Emissions (lb/year)								Emissions (lb/year)							
Fedex			5.788			5.538					2.262			2.164		
Costco			0.283			0.270					0.323			0.309		
Gas Station			0.226			0.216					0.259			0.247		
Phase 1 - Retail/Hotel			0.443			0.424					0.173			0.166		
Phase 2- Trucks			6.876			6.579					2.687			2.571		

ANNUAL	PM2.5 Exh	PM2.5 Exh
Source	(g/s)	(g/s)
Fedex	2.46E-04	9.60E-05
Costco	8.43E-06	9.64E-06
Gas Station	5.00E-06	5.72E-06
Phase 1 - Retail/Hotel	6.10E-06	2.38E-06
Phase 2- Trucks	9.46E-05	3.70E-05

Table 11: HHDT Idling Exhaust Emissions

Source	# of Trucks per Day	# of Trucks per Hour	Idling Minutes
Fedex	390	39	15
Costco	10	1	15
Gas Station	8	1	15
Phase 1 - Retail/Hotel	30	3	15
Phase 2- Trucks	102	10	15

Emissions Factors

	2021				2031			
	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
	Emission Factor (g/min)				Emission Factor (g/min)			
Costco Trucks	3.95E-02	4.66E-01	1.68E-04	1.61E-04	3.95E-02	4.66E-01	1.68E-04	1.61E-04
All Other Trucks	3.98E-02	5.99E-01	5.51E-04	5.28E-04	3.93E-02	4.92E-01	2.25E-04	2.16E-04

	2021				2031			
DAILY	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Source	Emissions (lb/day)				Emissions (lb/day)			
Fedex			0.0071	0.0068			0.00	0.00
Costco			0.0001	0.0001			0.00	0.00
Gas Station			0.0000	0.0000			0.00	0.00
Phase 1 - Retail/Hotel			0.0005	0.0005			0.00	0.00
Phase 2- Trucks			0.0019	0.0018			0.00	0.00

ANNUAL	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Source	Exhaust Emissions (lb/year)				Exhaust Emissions (lb/year)			
Fedex			2.5957	2.4835			1.06	1.02
Costco			0.0203	0.0194			0.02	0.02
Gas Station			0.0162	0.0155			0.02	0.02
Phase 1 - Retail/Hotel			0.1988	0.1902			0.08	0.08
Phase 2- Trucks			0.6789	0.6495			0.28	0.27

ANNUAL	PM2.5 Exh		PM2.5 Exh
Source	(g/s)		(g/s)
Fedex	1.10E-04		4.50E-05
Costco	6.05E-07		6.05E-07
Gas Station	3.59E-07		3.59E-07
Phase 1 - Retail/Hotel	2.74E-06		1.12E-06
Phase 2- Trucks	9.34E-06		3.82E-06

Variable Emission Profiles in AERMOD

	Costco Store [1]			Costco Gas Station [1]			Fedex [2]			Hotel and others
Hour (Ending of Hour Period)	Weekday (9:00am-8:30pm)	Saturday (9:00am - 7:00pm)	Sunday (9:00am - 7:00pm)	Weekday (6:00am-9:30pm)	Saturday (6:00am-8:00pm)	Sunday (7:00am - 8:00pm)	Weekday (9:00am-6:30pm)	Saturday (9:00am-4:00pm)	Sunday (Closed)	24/7
1:00	0	0	0	0	0	0	0	0	0	Hotel generator assume could operate between 8 am and 6pm
2:00	0	0	0	0	0	0	0	0	0	
3:00	0	0	0	0	0	0	0	0	0	
4:00	0	0	0	0	0	0	0	0	0	
5:00	0	0	0	0	0	0	0	0	0	
6:00	0	0	0	0	0	0	0	0	0	
7:00	0	0	0	1	1	0	0	0	0	
8:00	0	0	0	1	1	1	0	0	0	
9:00	0	0	0	1	1	1	0	0	0	
10:00	1	1	1	1	1	1	1	1	0	
11:00	1	1	1	1	1	1	1	1	0	
12:00	1	1	1	1	1	1	1	1	0	
13:00	1	1	1	1	1	1	1	1	0	
14:00	1	1	1	1	1	1	1	1	0	
15:00	1	1	1	1	1	1	1	1	0	
16:00	1	1	1	1	1	1	1	1	0	
17:00	1	1	1	1	1	1	1	0	0	
18:00	1	1	1	1	1	1	1	0	0	
19:00	1	1	1	1	1	1	0.5	0	0	
20:00	1	0	0	1	1	1	0	0	0	
21:00	0.5	0	0	1	0	0	0	0	0	
22:00	0	0	0	0.5	0	0	0	0	0	
23:00	0	0	0	0	0	0	0	0	0	
24:00:00	0	0	0	0	0	0	0	0	0	

1 Assume same schedule as this Costco in San Francisco: https://www.costco.com/warehouse-locations/el-camino-s-san-francisco-ca-475.html. Accessed 10/23/2018

2 Based on business hours found on the website for this onsite Fedex facility

Costco Store		**Costco Gas Station**		**Fedex**		**Hotel Generator**	
M-F	11.5	M-F	15.5	M-F	9.5	M-F	10
Saturday	10	Saturday	14	Saturday	7	Saturday	10
Sunday	10	Sunday	13	Sunday	0	Sunday	10
Weighted	**11.07**	**Weighted**	**14.93**	**Weighted**	**7.79**	**Weighted**	**10.00**

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Health Risk Assessment and Annual $PM_{2.5}$ Exhaust Calculations

Construction HRA Concentrations

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
594854.00	4172863.00	0.09421	0.10464	0.0626	0.08048	0.03806	0.02488	0.08048	0.29582	0.16974
594854.00	4172883.00	0.08857	0.09902	0.05846	0.07625	0.03668	0.02464	0.07625	0.25426	0.14836
594854.00	4172903.00	0.08382	0.09434	0.05491	0.0727	0.03572	0.02434	0.0727	0.21853	0.12804
594854.00	4172923.00	0.07919	0.09001	0.05177	0.06917	0.03452	0.02397	0.06917	0.18845	0.10928
594874.00	4172823.00	0.11271	0.12234	0.0755	0.09539	0.04058	0.02639	0.09539	0.43069	0.2328
594874.00	4172843.00	0.10638	0.11623	0.06985	0.09057	0.04031	0.02623	0.09057	0.38245	0.21188
594874.00	4172863.00	0.10037	0.11035	0.06499	0.08606	0.03947	0.02574	0.08606	0.33345	0.18903
594874.00	4172883.00	0.09371	0.10424	0.06056	0.08101	0.03789	0.02563	0.08101	0.28395	0.16443
594874.00	4172903.00	0.08853	0.09941	0.05687	0.07708	0.03686	0.02524	0.07708	0.24233	0.14123
594874.00	4172923.00	0.08405	0.09539	0.05364	0.0737	0.03612	0.02481	0.0737	0.20772	0.1198
594894.00	4172803.00	0.13171	0.1384	0.08614	0.11115	0.04378	0.02772	0.11115	0.54487	0.28014
594894.00	4172823.00	0.12148	0.1298	0.07869	0.10311	0.04275	0.0277	0.10311	0.49105	0.25993
594894.00	4172843.00	0.11265	0.12196	0.07245	0.09631	0.04112	0.0274	0.09631	0.43245	0.23625
594894.00	4172863.00	0.10583	0.11591	0.0673	0.09114	0.04044	0.02705	0.09114	0.37518	0.21064
594894.00	4172883.00	0.0989	0.10958	0.06281	0.0858	0.03885	0.02661	0.0858	0.31929	0.18337
594894.00	4172903.00	0.09314	0.10452	0.05898	0.08137	0.03761	0.02613	0.08137	0.27037	0.15667
594894.00	4172923.00	0.08871	0.10075	0.05566	0.07804	0.0371	0.02563	0.07804	0.22999	0.13196
594914.00	4172803.00	0.14195	0.14643	0.08993	0.12011	0.04551	0.02911	0.12011	0.62098	0.31167
594914.00	4172823.00	0.13092	0.13761	0.0821	0.11148	0.04442	0.02881	0.11148	0.56356	0.29145
594914.00	4172843.00	0.12139	0.12974	0.07555	0.10413	0.0433	0.02862	0.10413	0.4982	0.26636
594914.00	4172863.00	0.1127	0.12269	0.06997	0.09745	0.04167	0.02813	0.09745	0.4287	0.23718
594914.00	4172883.00	0.10542	0.11634	0.06531	0.09181	0.04028	0.02759	0.09181	0.36304	0.20626
594914.00	4172903.00	0.09909	0.11098	0.06134	0.08685	0.03909	0.02703	0.08685	0.30483	0.17537
594914.00	4172923.00	0.09426	0.10721	0.05794	0.08314	0.03868	0.02648	0.08314	0.25759	0.14668
594934.00	4172783.00	0.17133	0.1678	0.10479	0.14458	0.04874	0.03101	0.14458	0.76573	0.36422
594934.00	4172803.00	0.15421	0.1559	0.09418	0.13086	0.04736	0.0306	0.13086	0.71393	0.3485
594934.00	4172823.00	0.1413	0.14629	0.08576	0.12074	0.04611	0.0302	0.12074	0.65123	0.32812
594934.00	4172843.00	0.1307	0.13812	0.07886	0.11253	0.04489	0.02977	0.11253	0.57811	0.30191
594934.00	4172863.00	0.12159	0.13096	0.07309	0.10546	0.04366	0.0293	0.10546	0.49892	0.27025
594954.00	4172783.00	0.18529	0.17734	0.1095	0.15674	0.05049	0.03253	0.15674	0.86945	0.4019
594954.00	4172803.00	0.16737	0.16588	0.09856	0.14247	0.04915	0.0321	0.14247	0.82291	0.3897
594954.00	4172823.00	0.15274	0.15583	0.08965	0.13099	0.04778	0.03161	0.13099	0.75753	0.37057
594954.00	4172843.00	0.14062	0.14713	0.08236	0.12152	0.04643	0.03109	0.12152	0.6758	0.34367
594974.00	4172783.00	0.20387	0.18969	0.11514	0.17289	0.05249	0.03418	0.17289	0.99773	0.44612
594974.00	4172803.00	0.18325	0.17767	0.10349	0.15649	0.05102	0.03366	0.15649	0.95653	0.43752
595014.00	4172563.00	0.92086	0.85506	0.69238	0.77593	0.07943	0.04675	0.77593	0.57716	0.42219
595014.00	4172583.00	0.91768	0.71579	0.60942	0.7739	0.07707	0.04532	0.7739	0.6763	0.45326
595022.43	4172341.44	0.79081	1.6516	1.0635	0.66165	0.14072	0.12886	0.66165	0.24186	0.2432
595034.00	4172503.00	1.00484	1.53086	1.02342	0.8441	0.09386	0.05629	0.8441	0.36189	0.32363
595034.00	4172523.00	1.02435	1.35908	0.94923	0.86121	0.09021	0.05347	0.86121	0.41847	0.36344
595034.00	4172543.00	1.04128	1.17243	0.86449	0.87617	0.08701	0.05121	0.87617	0.49135	0.40558
595034.00	4172563.00	1.05639	0.98888	0.77383	0.88959	0.08428	0.04945	0.88959	0.58378	0.44749
595034.00	4172583.00	1.0623	0.81833	0.67968	0.89528	0.08164	0.04801	0.89528	0.69417	0.48515
595034.00	4172603.00	1.06338	0.67954	0.58937	0.89684	0.07942	0.04695	0.89684	0.82295	0.51807
595042.43	4172281.44	0.80238	1.39911	0.95012	0.67096	0.20061	0.23853	0.67096	0.33027	0.33619
595042.43	4172301.44	0.82182	1.54432	1.01885	0.68722	0.17912	0.19639	0.68722	0.30103	0.30659
595042.43	4172321.44	0.84388	1.68045	1.08165	0.70573	0.16336	0.16275	0.70573	0.27596	0.27922
595042.43	4172341.44	0.86591	1.79773	1.13493	0.72424	0.15104	0.1362	0.72424	0.25621	0.25538
595054.00	4172463.00	1.07947	2.05227	1.24833	0.90517	0.10933	0.06742	0.90517	0.28652	0.25975
595054.00	4172483.00	1.08252	1.89393	1.19272	0.90806	0.09754	0.05942	0.90806	0.30608	0.28351
595054.00	4172503.00	1.13052	1.78206	1.13805	0.94944	0.0993	0.05913	0.94944	0.35651	0.32734
595054.00	4172523.00	1.16966	1.60228	1.06423	0.98296	0.09611	0.05654	0.98296	0.41499	0.37417
595054.00	4172543.00	1.19939	1.38477	0.97261	1.00861	0.09279	0.05432	1.00861	0.48974	0.42414
595054.00	4172563.00	1.22456	1.15875	0.8704	1.03045	0.08966	0.05254	1.03045	0.58647	0.47439

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595054.00	4172583.00	1.24664	0.95031	0.76428	1.04971	0.0868	0.05113	1.04971	0.70907	0.52135
595054.00	4172603.00	1.26169	0.77599	0.65978	1.06309	0.0841	0.04999	1.06309	0.85632	0.56148
595062.43	4172201.44	0.78805	0.83263	0.65827	0.65997	0.40331	0.53067	0.65997	0.47121	0.47167
595062.43	4172221.44	0.80706	0.9698	0.73742	0.6753	0.33986	0.45251	0.6753	0.45496	0.45299
595062.43	4172241.44	0.82829	1.12546	0.82108	0.6926	0.28798	0.37921	0.6926	0.43071	0.42862
595062.43	4172261.44	0.85229	1.29625	0.90727	0.71243	0.24768	0.31382	0.71243	0.40036	0.39954
595062.43	4172281.44	0.87553	1.472	0.99178	0.73181	0.21643	0.25706	0.73181	0.3653	0.36629
595062.43	4172301.44	0.89999	1.64637	1.07242	0.75233	0.19314	0.21025	0.75233	0.33012	0.33183
595062.43	4172321.44	0.9269	1.8122	1.14685	0.77491	0.17598	0.17311	0.77491	0.29886	0.29905
595062.43	4172341.44	0.95326	1.95761	1.21098	0.79703	0.16236	0.14402	0.79703	0.27336	0.26977
595074.00	4172423.00	1.14721	2.41736	1.40665	0.96047	0.12989	0.08443	0.96047	0.25593	0.22622
595074.00	4172443.00	1.18226	2.41151	1.40163	0.99051	0.1226	0.07681	0.99051	0.26783	0.23685
595074.00	4172463.00	1.22238	2.36732	1.38041	1.02486	0.11652	0.07099	1.02486	0.28779	0.25797
595074.00	4172483.00	1.26199	2.26954	1.33919	1.05879	0.11112	0.06637	1.05879	0.31595	0.28922
595074.00	4172503.00	1.29811	2.10836	1.2759	1.0898	0.10617	0.06266	1.0898	0.3541	0.33026
595074.00	4172523.00	1.35247	1.9108	1.19915	1.13602	0.10271	0.06005	1.13602	0.41079	0.38287
595074.00	4172543.00	1.39559	1.65356	1.09933	1.17283	0.09898	0.05781	1.17283	0.48462	0.4412
595074.00	4172563.00	1.43706	1.37631	0.98508	1.20826	0.09546	0.05601	1.20826	0.58408	0.50213
595074.00	4172583.00	1.48031	1.11612	0.86446	1.24521	0.09222	0.05459	1.24521	0.71671	0.56077
595074.00	4172603.00	1.52391	0.89971	0.74486	1.28251	0.08918	0.05342	1.28251	0.88598	0.6121
595082.43	4172141.44	0.78929	0.51701	0.44907	0.66233	0.70745	0.8283	0.66233	0.50499	0.527
595082.43	4172161.44	0.81098	0.60177	0.51123	0.67993	0.61826	0.75834	0.67993	0.51721	0.52798
595082.43	4172181.44	0.83302	0.70463	0.58174	0.69773	0.52899	0.67669	0.69773	0.52368	0.52446
595082.43	4172201.44	0.85489	0.82802	0.66028	0.71535	0.44542	0.58831	0.71535	0.52104	0.51439
595082.43	4172221.44	0.87787	0.97475	0.74645	0.73396	0.37282	0.49956	0.73396	0.50749	0.4968
595082.43	4172241.44	0.90386	1.14634	0.83932	0.7553	0.31411	0.41625	0.7553	0.48318	0.47183
595082.43	4172261.44	0.93425	1.34097	0.93701	0.78056	0.2694	0.34232	0.78056	0.4501	0.44045
595082.43	4172281.44	0.96214	1.54508	1.03378	0.80392	0.23455	0.27802	0.80392	0.40872	0.40246
595082.43	4172301.44	0.98819	1.7484	1.12603	0.82581	0.20794	0.22486	0.82581	0.36444	0.36116
595082.43	4172321.44	1.00802	1.9349	1.20828	0.84237	0.18694	0.16354	0.84237	0.31866	0.3196
595082.43	4172341.44	1.0543	2.13068	1.29121	0.88126	0.17444	0.15219	0.88126	0.29337	0.28659
595094.00	4172423.00	1.30214	2.74089	1.53973	1.09007	0.13903	0.08895	1.09007	0.26337	0.22655
595094.00	4172443.00	1.35064	2.76447	1.54428	1.13142	0.1313	0.08108	1.13142	0.27342	0.23517
595094.00	4172463.00	1.40241	2.74296	1.52994	1.17556	0.12466	0.07503	1.17556	0.29077	0.25494
595094.00	4172483.00	1.45981	2.66839	1.49572	1.22438	0.1191	0.0704	1.22438	0.31697	0.28671
595094.00	4172503.00	1.51525	2.51765	1.43661	1.27152	0.11397	0.06672	1.27152	0.35305	0.33055
595094.00	4172523.00	1.57723	2.29247	1.35419	1.32407	0.10954	0.0639	1.32407	0.40425	0.38732
595094.00	4172543.00	1.6599	2.01223	1.25262	1.39387	0.10599	0.06187	1.39387	0.47908	0.45686
595094.00	4172563.00	1.73066	1.67363	1.12628	1.45372	0.10204	0.06006	1.45372	0.57967	0.53145
595102.43	4172101.44	0.80593	0.3813	0.3381	0.67707	0.96678	1.01187	0.67707	0.50294	0.55026
595102.43	4172121.44	0.82924	0.43624	0.3844	0.69605	0.88954	0.97833	0.69605	0.52099	0.5564
595102.43	4172141.44	0.85273	0.50348	0.43854	0.7151	0.79552	0.92164	0.7151	0.54003	0.56245
595102.43	4172161.44	0.88155	0.58926	0.5029	0.73855	0.69585	0.848	0.73855	0.56015	0.56854
595102.43	4172181.44	0.90668	0.69206	0.57584	0.75881	0.59178	0.75622	0.75881	0.57356	0.56891
595102.43	4172201.44	0.93421	0.81967	0.65934	0.78107	0.49558	0.65663	0.78107	0.57849	0.56297
595102.43	4172221.44	0.96272	0.97499	0.75264	0.80431	0.41201	0.55535	0.80431	0.57018	0.54787
595102.43	4172241.44	0.99139	1.15917	0.85405	0.828	0.34362	0.45867	0.828	0.54595	0.5221
595102.43	4172261.44	1.02139	1.37106	0.96129	0.85306	0.29088	0.37221	0.85306	0.50708	0.48633
595102.43	4172281.44	1.05252	1.60339	1.07059	0.8792	0.25165	0.29891	0.8792	0.45767	0.44268
595102.43	4172301.44	1.09063	1.85029	1.17986	0.91117	0.22404	0.24059	0.91117	0.40615	0.39602
595102.43	4172321.44	1.12877	2.09103	1.28213	0.94315	0.20314	0.1949	0.94315	0.35682	0.34887
595102.43	4172341.44	1.17512	2.32117	1.37684	0.98197	0.18775	0.16094	0.98197	0.31755	0.30688
595114.00	4172443.00	1.56564	3.1806	1.70408	1.31129	0.14105	0.08586	1.31129	0.28088	0.23314
595114.00	4172463.00	1.63793	3.19535	1.70007	1.3726	0.13401	0.07968	1.3726	0.29607	0.25097

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595114.00	4172483.00	1.71937	3.15453	1.67496	1.44148	0.12805	0.07501	1.44148	0.31986	0.28202
595114.00	4172503.00	1.81472	3.0407	1.62622	1.5219	0.12299	0.0715	1.5219	0.35493	0.32819
595122.43	4172101.44	0.87164	0.37202	0.32674	0.73185	1.08928	1.11578	0.73185	0.53248	0.58296
595122.43	4172121.44	0.89839	0.42447	0.3722	0.75362	1.00602	1.08687	0.75362	0.55249	0.59042
595122.43	4172141.44	0.92825	0.49049	0.42662	0.77791	0.90234	1.03136	0.77791	0.57708	0.6004
595122.43	4172161.44	0.96012	0.57322	0.49111	0.80375	0.78602	0.95086	0.80375	0.60379	0.61056
595122.43	4172181.44	0.99286	0.6766	0.56669	0.83023	0.66657	0.85004	0.83023	0.6278	0.61737
595122.43	4172201.44	1.02572	0.80547	0.65406	0.85689	0.55381	0.73641	0.85689	0.64264	0.61677
595122.43	4172221.44	1.05901	0.96561	0.7535	0.88422	0.45586	0.61923	0.88422	0.64188	0.60524
595122.43	4172241.44	1.09547	1.16351	0.86478	0.91456	0.37762	0.50805	0.91456	0.62192	0.58111
595122.43	4172261.44	1.13367	1.39911	0.98502	0.94658	0.31805	0.40869	0.94658	0.58125	0.5435
595122.43	4172281.44	1.18423	1.67669	1.11368	0.98898	0.27705	0.32717	0.98898	0.52821	0.49714
595122.43	4172301.44	1.22678	1.96557	1.23906	1.02465	0.24487	0.25992	1.02465	0.4629	0.44118
595122.43	4172321.44	1.27257	2.25675	1.35892	1.06299	0.22103	0.20849	1.06299	0.39974	0.38411
595122.43	4172341.44	1.32467	2.53461	1.46937	1.10664	0.20281	0.17055	1.10664	0.34762	0.33188
595134.00	4172443.00	1.85731	3.68465	1.88595	1.55514	0.15242	0.0914	1.55514	0.29124	0.23156
595142.43	4172101.44	0.95009	0.36437	0.31506	0.79724	1.23454	1.23312	0.79724	0.56519	0.61863
595142.43	4172121.44	0.98346	0.4152	0.35978	0.82445	1.14873	1.21394	0.82445	0.58718	0.6276
595142.43	4172141.44	1.01915	0.47862	0.41345	0.85347	1.03293	1.16057	0.85347	0.61596	0.64068
595142.43	4172161.44	1.05698	0.55852	0.47781	0.88412	0.89815	1.07486	0.88412	0.65065	0.65614
595142.43	4172181.44	1.09609	0.65953	0.55446	0.91578	0.75734	0.96221	0.91578	0.68637	0.66999
595142.43	4172201.44	1.13674	0.78824	0.64507	0.94897	0.62431	0.83241	0.94897	0.71526	0.67716
595142.43	4172221.44	1.17695	0.95098	0.75013	0.98224	0.50851	0.69602	0.98224	0.72674	0.67166
595142.43	4172241.44	1.22665	1.16196	0.8719	1.02379	0.41901	0.56769	1.02379	0.71637	0.6519
595142.43	4172261.44	1.2792	1.42269	1.00679	1.06787	0.35183	0.45293	1.06787	0.6774	0.61423
595142.43	4172281.44	1.33599	1.73296	1.1511	1.11548	0.30353	0.35715	1.11548	0.61377	0.56081
595142.43	4172301.44	1.39414	2.07841	1.29797	1.16414	0.26823	0.28114	1.16414	0.53478	0.49614
595142.43	4172321.44	1.46077	2.44277	1.44226	1.21985	0.24257	0.2242	1.21985	0.45647	0.42879
595142.43	4172341.44	1.5313	2.79451	1.57566	1.27895	0.22204	0.18235	1.27895	0.38926	0.36511
595146.24	4171970.65	0.71116	0.1835	0.14972	0.59992	1.0035	0.81301	0.59992	0.42692	0.54905
595146.24	4171990.65	0.75342	0.20009	0.16494	0.63511	1.09796	0.90319	0.63511	0.45749	0.573
595158.78	4172948.61	0.20882	0.1984	0.10753	0.17995	0.04956	0.03618	0.17995	4.56547	1.3649
595162.43	4172201.44	1.27222	0.7681	0.63183	1.06148	0.70979	0.94835	1.06148	0.79585	0.74393
595162.43	4172221.44	1.32189	0.93042	0.74146	1.10284	0.57132	0.78831	1.10284	0.82563	0.74757
595162.43	4172241.44	1.39143	1.15177	0.87339	1.1611	0.46827	0.63899	1.1611	0.83204	0.73555
595162.43	4172281.44	1.52477	1.77388	1.18387	1.27281	0.33339	0.39085	1.27281	0.72337	0.63839
595162.43	4172301.44	1.60822	2.18613	1.35628	1.34252	0.29505	0.30485	1.34252	0.62873	0.56434
595162.43	4172321.44	1.69627	2.6332	1.5272	1.41612	0.26588	0.24073	1.41612	0.52774	0.48299
595162.43	4172341.44	1.79556	3.08174	1.68867	1.49933	0.2429	0.19475	1.49933	0.44041	0.40525
595166.24	4171930.65	0.65359	0.15578	0.12124	0.5511	0.82545	0.6446	0.5511	0.36866	0.50597
595166.24	4171950.65	0.7055	0.16851	0.13224	0.59497	0.93345	0.73265	0.59497	0.40784	0.5463
595166.24	4171970.65	0.7536	0.18212	0.14445	0.63542	1.04411	0.8267	0.63542	0.44541	0.5807
595166.24	4171990.65	0.80341	0.19846	0.15895	0.67696	1.15749	0.92874	0.67696	0.48177	0.60985
595186.24	4171890.65	0.57204	0.13432	0.10053	0.48147	0.63493	0.48617	0.48147	0.29708	0.42862
595186.24	4171910.65	0.62683	0.14412	0.10851	0.52791	0.72902	0.55773	0.52791	0.33502	0.4772
595186.24	4171930.65	0.68476	0.1551	0.11757	0.57695	0.83579	0.63987	0.57695	0.37644	0.52621
595186.24	4171950.65	0.74388	0.16755	0.12794	0.62691	0.95464	0.73321	0.62691	0.42039	0.5735
595186.24	4171970.65	0.80194	0.1814	0.13971	0.67579	1.08201	0.83662	0.67579	0.46465	0.61586
595186.24	4171990.65	0.86051	0.19749	0.15345	0.72474	1.21537	0.95023	0.72474	0.50781	0.65161
595203.12	4172931.43	0.28826	0.25379	0.13799	0.24301	0.05548	0.04057	0.24301	8.69764	5.57045
595206.24	4171870.65	0.53332	0.12464	0.09105	0.44801	0.54472	0.41071	0.44801	0.26121	0.38393
595206.24	4171890.65	0.5908	0.13365	0.09793	0.49683	0.62955	0.47342	0.49683	0.2972	0.43525
595206.24	4171910.65	0.65136	0.14333	0.10551	0.54815	0.72744	0.54601	0.54815	0.33754	0.48958
595206.24	4171930.65	0.71767	0.15455	0.11426	0.60418	0.84226	0.63168	0.60418	0.38324	0.54646

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595206.24	4171950.65	0.78536	0.1668	0.12405	0.6613	0.97137	0.72952	0.6613	0.43223	0.60204
595206.24	4171970.65	0.85452	0.18062	0.13525	0.71962	1.11441	0.84074	0.71962	0.48335	0.65359
595206.24	4171990.65	0.92387	0.19653	0.14824	0.77769	1.26862	0.96547	0.77769	0.5345	0.69795
595207.62	4172857.58	0.55254	0.35856	0.18357	0.46452	0.06444	0.04699	0.46452	20.45629	4.32016
595216.89	4172907.31	0.36281	0.29365	0.15892	0.30366	0.05919	0.04345	0.30366	10.10264	6.82281
595226.24	4171850.65	0.48909	0.11551	0.08296	0.40978	0.4621	0.34331	0.40978	0.22662	0.33411
595226.24	4171870.65	0.54729	0.12392	0.08898	0.45923	0.53571	0.39647	0.45923	0.25907	0.38438
595226.24	4171890.65	0.60923	0.13271	0.09549	0.51182	0.62117	0.45828	0.51182	0.29602	0.43976
595226.24	4171910.65	0.6771	0.14249	0.1028	0.56933	0.72279	0.53171	0.56933	0.3389	0.50051
595226.24	4171930.65	0.75075	0.15344	0.11104	0.63156	0.84261	0.61855	0.63156	0.38784	0.56507
595226.24	4171950.65	0.82865	0.1655	0.1203	0.69728	0.98083	0.71973	0.69728	0.44189	0.63025
595226.24	4171970.65	0.91112	0.17951	0.13104	0.76671	1.13992	0.83831	0.76671	0.50081	0.69348
595229.35	4172793.73	2.12721	0.59833	0.29661	1.7723	0.07801	0.05659	1.7723	19.48567	4.4304
595229.53	4172979.48	0.23175	0.22411	0.13106	0.1931	0.05274	0.03926	0.1931	2.23234	2.93605
595234.00	4172863.00	0.6019	0.39749	0.20886	0.49966	0.06703	0.04918	0.49966	11.06627	6.38792
595234.00	4172883.00	0.48614	0.35692	0.19178	0.40366	0.06425	0.04726	0.40366	9.48748	6.08116
595234.00	4172903.00	0.40453	0.32255	0.17704	0.33599	0.06168	0.04548	0.33599	7.7487	6.04971
595246.24	4171830.65	0.44489	0.10763	0.07622	0.37171	0.39347	0.2874	0.37171	0.19673	0.28548
595246.24	4171850.65	0.49989	0.11498	0.08137	0.41834	0.45347	0.3301	0.41834	0.22395	0.33052
595246.24	4171870.65	0.56057	0.1229	0.087	0.46982	0.52485	0.38078	0.46982	0.25592	0.38251
595246.24	4171890.65	0.6281	0.13165	0.09325	0.52709	0.61088	0.44157	0.52709	0.29386	0.44208
595246.24	4171910.65	0.7038	0.14151	0.10031	0.5912	0.71521	0.51497	0.5912	0.33891	0.50931
595246.24	4171930.65	0.7884	0.15269	0.10832	0.66265	0.84099	0.60339	0.66265	0.39175	0.58309
595246.24	4171950.65	0.87835	0.16479	0.11719	0.73844	0.98809	0.70749	0.73844	0.45125	0.6598
595246.24	4171970.65	0.97853	0.1791	0.12757	0.82264	1.16272	0.83245	0.82264	0.51851	0.7372
595251.41	4172717.21	6.55083	1.40787	0.90422	5.46447	0.09956	0.07175	5.46447	17.40776	4.62275
595254.00	4172823.00	1.09838	0.57033	0.29388	0.91025	0.07659	0.05619	0.91025	9.92581	6.48581
595254.00	4172843.00	0.81878	0.49869	0.26297	0.67714	0.07307	0.0538	0.67714	8.9115	5.93542
595254.00	4172863.00	0.63898	0.4397	0.23762	0.52792	0.06979	0.05157	0.52792	7.88627	5.28713
595254.00	4172883.00	0.51829	0.39234	0.21692	0.42802	0.06687	0.04956	0.42802	6.7984	4.8527
595254.00	4172903.00	0.43176	0.35263	0.19912	0.35649	0.06417	0.0477	0.35649	5.62845	5.02367
595254.00	4172923.00	0.36761	0.31936	0.18376	0.30352	0.06171	0.046	0.30352	4.44272	6.65936
595259.54	4172956.67	0.29374	0.27824	0.16623	0.24221	0.05839	0.04391	0.24221	2.64076	6.23205
595266.24	4171810.65	0.39908	0.10019	0.07026	0.33245	0.33617	0.24096	0.33245	0.17084	0.24013
595266.24	4171830.65	0.44885	0.10638	0.07462	0.3746	0.38273	0.27396	0.3746	0.19246	0.27779
595266.24	4171850.65	0.50806	0.11384	0.07965	0.42471	0.44237	0.31529	0.42471	0.21985	0.32418
595266.24	4171870.65	0.57251	0.12153	0.08503	0.47931	0.512	0.36373	0.47931	0.25156	0.3779
595266.24	4171890.65	0.6463	0.13029	0.09109	0.54177	0.59819	0.42309	0.54177	0.29028	0.44141
595266.24	4171910.65	0.73062	0.14025	0.09794	0.61307	0.70449	0.49576	0.61307	0.33721	0.51506
595266.24	4171930.65	0.82426	0.15113	0.10554	0.69213	0.83256	0.58323	0.69213	0.3925	0.59741
595266.24	4171950.65	0.92895	0.16334	0.11411	0.7803	0.98753	0.68913	0.7803	0.45733	0.68696
595266.24	4171970.65	1.04744	0.17754	0.124	0.8798	1.1748	0.81786	0.8798	0.53236	0.78035
595271.59	4172931.11	0.36044	0.32993	0.19757	0.29656	0.06283	0.04737	0.29656	3.28574	6.25882
595274.00	4172783.00	1.92621	0.88618	0.46465	1.60607	0.08851	0.06495	1.60607	8.5074	6.55129
595274.00	4172803.00	1.40604	0.74536	0.39404	1.17004	0.08395	0.06191	1.17004	7.89389	5.84805
595274.00	4172823.00	1.05514	0.6385	0.34417	0.87487	0.07989	0.05916	0.87487	7.25186	5.15847
595274.00	4172843.00	0.82145	0.55683	0.307	0.67894	0.07638	0.05672	0.67894	6.58554	4.59689
595274.00	4172863.00	0.65366	0.48647	0.2745	0.53905	0.07279	0.05431	0.53905	5.88605	4.09933
595274.00	4172883.00	0.5366	0.43135	0.24863	0.44195	0.06968	0.05218	0.44195	5.12641	3.89255
595274.00	4172903.00	0.45055	0.38597	0.2268	0.37081	0.06685	0.05022	0.37081	4.32042	4.18873
595274.00	4172923.00	0.38485	0.34755	0.20781	0.31658	0.0642	0.0484	0.31658	3.51704	5.34467
595276.16	4172654.64	6.48071	5.88103	3.10378	5.40284	0.12747	0.09126	5.40284	2.73859	5.48818
595286.24	4171790.65	0.35423	0.09341	0.06497	0.29411	0.29014	0.20353	0.29411	0.14933	0.20064
595286.24	4171810.65	0.39919	0.09885	0.06878	0.33208	0.32672	0.22924	0.33208	0.1666	0.23119

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595286.24	4171830.65	0.45253	0.1052	0.07309	0.37718	0.37292	0.26099	0.37718	0.18824	0.26914
595286.24	4171850.65	0.51519	0.11255	0.07796	0.43018	0.43099	0.30024	0.43018	0.21521	0.31595
595286.24	4171870.65	0.58479	0.12024	0.0832	0.48906	0.49963	0.34675	0.48906	0.2469	0.37135
595286.24	4171890.65	0.66487	0.12892	0.08906	0.55676	0.58491	0.40394	0.55676	0.28586	0.438
595286.24	4171910.65	0.75586	0.13848	0.09556	0.63359	0.68965	0.47377	0.63359	0.33311	0.51654
595286.24	4171930.65	0.86133	0.1494	0.10292	0.72252	0.82043	0.56024	0.72252	0.39102	0.60812
595286.24	4171950.65	0.98324	0.16182	0.11127	0.82509	0.98243	0.66694	0.82509	0.46095	0.7116
595293.61	4172706.67	3.54602	2.37903	2.18334	2.95607	0.11358	0.08318	2.95607	6.24382	7.36365
595294.00	4172743.00	2.58625	1.48998	0.94373	2.1561	0.10274	0.07575	2.1561	6.71937	6.38566
595294.00	4172763.00	2.07455	1.20684	0.70436	1.72958	0.09761	0.07216	1.72958	6.55767	5.73894
595294.00	4172803.00	1.2539	0.8296	0.4748	1.04379	0.08761	0.06541	1.04379	5.93549	4.42399
595294.00	4172823.00	0.99062	0.70845	0.41177	0.8222	0.08345	0.06254	0.8222	5.53089	3.94247
595294.00	4172843.00	0.79859	0.61436	0.36374	0.66051	0.07974	0.05995	0.66051	5.07591	3.57063
595294.00	4172863.00	0.65513	0.53851	0.32467	0.54027	0.0763	0.05755	0.54027	4.56924	3.31993
595294.00	4172883.00	0.5444	0.4733	0.2899	0.44798	0.0728	0.05518	0.44798	4.02399	3.23404
595294.00	4172903.00	0.46067	0.42048	0.26141	0.37853	0.06965	0.05302	0.37853	3.44484	3.46632
595294.00	4172923.00	0.39533	0.37609	0.23704	0.32451	0.06671	0.05099	0.32451	2.87026	3.95339
595294.00	4173023.00	0.21639	0.23519	0.15693	0.17719	0.05473	0.04265	0.17719	1.03231	1.05431
595294.00	4173043.00	0.1965	0.21722	0.14632	0.16086	0.05278	0.04127	0.16086	0.85564	0.78375
595294.00	4173063.00	0.17936	0.20118	0.13673	0.14679	0.05092	0.03995	0.14679	0.71553	0.60048
595305.29	4173022.49	0.22088	0.24369	0.16689	0.18062	0.05574	0.0438	0.18062	1.00061	1.0124
595306.24	4171790.65	0.35241	0.09224	0.06364	0.29214	0.28332	0.19416	0.29214	0.14593	0.19219
595306.24	4171810.65	0.40119	0.09812	0.06752	0.33323	0.32122	0.21946	0.33323	0.16383	0.22305
595306.24	4171830.65	0.45655	0.10427	0.07168	0.37997	0.36531	0.24911	0.37997	0.18462	0.26014
595306.24	4171850.65	0.52152	0.11125	0.07632	0.43488	0.42025	0.2855	0.43488	0.21038	0.30619
595306.24	4171870.65	0.59624	0.11889	0.08141	0.49805	0.48738	0.32971	0.49805	0.2417	0.36249
595306.24	4171890.65	0.68286	0.12744	0.08708	0.57123	0.571	0.38422	0.57123	0.28044	0.43141
595306.24	4171910.65	0.78344	0.13703	0.09341	0.65605	0.67567	0.45177	0.65605	0.32847	0.515
595314.00	4172743.00	2.07977	1.62815	1.23399	1.73343	0.10751	0.08048	1.73343	4.99061	4.92689
595314.00	4172763.00	1.71657	1.31505	0.89775	1.43076	0.10184	0.07653	1.43076	4.97448	4.33736
595314.00	4172803.00	1.13137	0.9111	0.59379	0.94185	0.09186	0.06956	0.94185	4.62957	3.46651
595314.00	4172863.00	0.64047	0.58393	0.38601	0.5286	0.07956	0.06095	0.5286	3.65392	2.74252
595314.00	4172883.00	0.53976	0.511	0.33964	0.4442	0.07571	0.05831	0.4442	3.24684	2.69554
595314.00	4172903.00	0.46204	0.45268	0.30312	0.37943	0.07236	0.05596	0.37943	2.81703	2.79396
595314.00	4172923.00	0.40031	0.40421	0.27278	0.32825	0.06927	0.05378	0.32825	2.39421	2.89123
595314.00	4172943.00	0.35079	0.36369	0.24741	0.28735	0.06644	0.05177	0.28735	2.00641	2.70261
595314.00	4172963.00	0.30951	0.32831	0.22498	0.25331	0.06367	0.04981	0.25331	1.66621	2.20848
595314.00	4172983.00	0.27573	0.29839	0.20602	0.22552	0.06114	0.04801	0.22552	1.38587	1.68846
595314.00	4173003.00	0.24798	0.27318	0.19006	0.20272	0.05888	0.04637	0.20272	1.1606	1.27955
595314.00	4173023.00	0.22321	0.24953	0.17471	0.18236	0.05648	0.04466	0.18236	0.96858	0.96586
595314.00	4173043.00	0.20289	0.22986	0.16201	0.16568	0.0544	0.04314	0.16568	0.81688	0.74849
595314.00	4173063.00	0.18543	0.21255	0.15077	0.15136	0.05245	0.04171	0.15136	0.69355	0.59125
595326.24	4171790.65	0.35017	0.09115	0.06234	0.28983	0.27766	0.18557	0.28983	0.14289	0.18376
595326.24	4171810.65	0.39969	0.09677	0.06607	0.33145	0.3134	0.2089	0.33145	0.1598	0.21311
595326.24	4171830.65	0.45819	0.10303	0.07017	0.38073	0.35701	0.23709	0.38073	0.18039	0.24962
595326.24	4171850.65	0.52667	0.10991	0.07468	0.43851	0.41022	0.27124	0.43851	0.20544	0.295
595334.00	4172743.00	1.74027	1.71779	1.83188	1.45012	0.11296	0.08605	1.45012	3.89021	3.93056
595334.00	4172763.00	1.47009	1.39853	1.24587	1.22498	0.10692	0.08176	1.22498	3.91391	3.45244
595334.00	4172823.00	0.86005	0.83097	0.63295	0.71475	0.09141	0.07072	0.71475	3.51292	2.58649
595334.00	4172843.00	0.72527	0.7147	0.53486	0.60114	0.0868	0.06746	0.60114	3.27128	2.41007
595334.00	4172863.00	0.6183	0.62284	0.46183	0.51088	0.08275	0.06455	0.51088	2.98735	2.30787
595334.00	4172883.00	0.53113	0.54727	0.40347	0.43752	0.07895	0.06182	0.43752	2.6762	2.27034
595334.00	4172903.00	0.45965	0.48399	0.35549	0.37764	0.07532	0.05921	0.37764	2.35199	2.26819
595334.00	4172923.00	0.40178	0.43159	0.31668	0.32943	0.07202	0.05682	0.32943	2.03326	2.22208

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595334.00	4172943.00	0.35337	0.38646	0.28342	0.28927	0.06881	0.0545	0.28927	1.73374	2.02822
595334.00	4172963.00	0.31436	0.34932	0.25667	0.25706	0.06602	0.05245	0.25706	1.47372	1.71985
595334.00	4172983.00	0.28103	0.31671	0.23313	0.2296	0.06329	0.05044	0.2296	1.2495	1.38572
595334.00	4173003.00	0.25266	0.28827	0.21262	0.20626	0.06069	0.04853	0.20626	1.06089	1.09799
595334.00	4173023.00	0.22873	0.26384	0.19513	0.18661	0.05831	0.04676	0.18661	0.90506	0.87415
595334.00	4173043.00	0.20827	0.24255	0.17992	0.16982	0.05609	0.04509	0.16982	0.77525	0.7022
595334.00	4173063.00	0.1905	0.22373	0.16645	0.15524	0.05399	0.04351	0.15524	0.6665	0.56965
595334.00	4173103.00	0.16115	0.19184	0.14355	0.13118	0.05005	0.04054	0.13118	0.49953	0.38832
595334.00	4173123.00	0.14889	0.1782	0.1337	0.12114	0.04819	0.03914	0.12114	0.43595	0.32663
595354.00	4172763.00	1.28919	1.45173	1.81897	1.07398	0.11285	0.08791	1.07398	3.16034	2.84167
595354.00	4172783.00	1.09449	1.20151	1.27201	0.91166	0.10593	0.08303	0.91166	3.13426	2.54711
595354.00	4172803.00	0.93353	1.01706	0.9847	0.77711	0.10046	0.07901	0.77711	3.03676	2.34273
595354.00	4172823.00	0.79704	0.86859	0.79041	0.66261	0.09517	0.07515	0.66261	2.89179	2.17442
595354.00	4172843.00	0.68553	0.75064	0.65493	0.56868	0.09042	0.07165	0.56868	2.70425	2.05173
595354.00	4172863.00	0.59276	0.65434	0.55373	0.49034	0.08598	0.06837	0.49034	2.48454	1.96751
595354.00	4172903.00	0.45149	0.50934	0.41481	0.37126	0.07808	0.0625	0.37126	1.99221	1.86513
595354.00	4172923.00	0.39769	0.45379	0.36507	0.32621	0.0745	0.05982	0.32621	1.74451	1.77369
595354.00	4172943.00	0.35302	0.4071	0.3247	0.289	0.07123	0.05735	0.289	1.51327	1.61051
595354.00	4172963.00	0.31561	0.36747	0.29134	0.258	0.06823	0.05507	0.258	1.30686	1.39149
595354.00	4172983.00	0.28367	0.33316	0.26294	0.23162	0.06538	0.05289	0.23162	1.12697	1.16177
595354.00	4173003.00	0.25606	0.30308	0.23833	0.20888	0.06264	0.05081	0.20888	0.97212	0.95557
595354.00	4173023.00	0.23254	0.27713	0.21744	0.18954	0.06012	0.04888	0.18954	0.84166	0.78706
595354.00	4173043.00	0.21216	0.25438	0.1993	0.17282	0.05776	0.04706	0.17282	0.73056	0.65083
595354.00	4173063.00	0.19443	0.23436	0.18347	0.15828	0.05554	0.04534	0.15828	0.63589	0.54126
595354.00	4173083.00	0.17881	0.21651	0.16942	0.14546	0.05343	0.04369	0.14546	0.55495	0.45299
595354.00	4173103.00	0.16487	0.2004	0.15677	0.13404	0.05138	0.04211	0.13404	0.48563	0.38176
595354.00	4173123.00	0.15242	0.18587	0.1454	0.12384	0.04941	0.04058	0.12384	0.42668	0.32459
595354.00	4173143.00	0.14149	0.17302	0.1354	0.11489	0.04759	0.03915	0.11489	0.37745	0.27927
595354.00	4173163.00	0.13202	0.16184	0.12677	0.10714	0.04597	0.03786	0.10714	0.33681	0.24349
595374.00	4172763.00	1.14057	1.45259	2.47849	0.95005	0.11766	0.09394	0.95005	2.62758	2.34095
595374.00	4172783.00	0.98588	1.21894	1.68651	0.82108	0.11068	0.08873	0.82108	2.60398	2.13908
595374.00	4172803.00	0.85414	1.03859	1.25571	0.711	0.10471	0.08419	0.711	2.53081	1.9871
595374.00	4172823.00	0.74305	0.89473	0.9852	0.61788	0.09934	0.08007	0.61788	2.41663	1.86827
595374.00	4172843.00	0.64767	0.77582	0.79644	0.53762	0.09416	0.07613	0.53762	2.26997	1.77089
595374.00	4172863.00	0.56799	0.6791	0.66239	0.47036	0.0895	0.07254	0.47036	2.09717	1.6984
595374.00	4172883.00	0.5012	0.59996	0.56379	0.4139	0.08536	0.06931	0.4139	1.90823	1.64007
595374.00	4172903.00	0.4421	0.53092	0.48305	0.36401	0.08108	0.06603	0.36401	1.71139	1.56689
595374.00	4172923.00	0.39195	0.47296	0.41973	0.32182	0.07715	0.06301	0.32182	1.5153	1.46605
595374.00	4172943.00	0.35023	0.42459	0.3699	0.28689	0.07367	0.0603	0.28689	1.33184	1.32898
595374.00	4172963.00	0.31482	0.38334	0.32918	0.2574	0.07047	0.05778	0.2574	1.16589	1.16452
595374.00	4172983.00	0.28429	0.3476	0.29503	0.23209	0.06745	0.0554	0.23209	1.01903	0.99538
595374.00	4173003.00	0.25782	0.31642	0.26601	0.21023	0.0646	0.05315	0.21023	0.89122	0.84124
595374.00	4173023.00	0.23481	0.28915	0.24122	0.19129	0.06193	0.05104	0.19129	0.78086	0.70991
595374.00	4173043.00	0.21484	0.26531	0.21999	0.17488	0.05944	0.04906	0.17488	0.68592	0.60096
595374.00	4173063.00	0.19727	0.24423	0.20151	0.16047	0.05709	0.04719	0.16047	0.60348	0.51018
595374.00	4173083.00	0.18152	0.22519	0.18498	0.14755	0.0548	0.04537	0.14755	0.53087	0.43364
595374.00	4173103.00	0.16758	0.20825	0.17049	0.13612	0.05265	0.04365	0.13612	0.46837	0.37068
595374.00	4173123.00	0.1552	0.19311	0.15765	0.12598	0.05062	0.04202	0.12598	0.41472	0.31902
595374.00	4173143.00	0.1443	0.17972	0.14643	0.11706	0.04875	0.04051	0.11706	0.36937	0.27719
595374.00	4173163.00	0.13469	0.16788	0.13661	0.1092	0.04703	0.03912	0.1092	0.3311	0.24324
595374.00	4173183.00	0.12604	0.15717	0.12777	0.10212	0.04541	0.0378	0.10212	0.29811	0.21502
595394.00	4172783.00	0.89804	1.21794	2.17867	0.74785	0.1158	0.09502	0.74785	2.1984	1.82878
595394.00	4172803.00	0.78745	1.04473	1.56277	0.65549	0.10921	0.08982	0.65549	2.13995	1.71298
595394.00	4172823.00	0.6932	0.90539	1.19368	0.57653	0.10338	0.08517	0.57653	2.04877	1.62039

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595394.00	4172843.00	0.61169	0.7897	0.94762	0.50803	0.0979	0.0808	0.50803	1.93117	1.54181
595394.00	4172863.00	0.54143	0.69323	0.77436	0.44876	0.09279	0.07673	0.44876	1.79296	1.47337
595394.00	4172883.00	0.48219	0.61389	0.64972	0.39867	0.08828	0.0731	0.39867	1.64224	1.4107
595394.00	4172923.00	0.38469	0.48792	0.47742	0.31628	0.07988	0.06635	0.31628	1.32947	1.24284
595394.00	4172943.00	0.34623	0.43906	0.41798	0.28394	0.07625	0.0634	0.28394	1.18259	1.12946
595394.00	4172963.00	0.31237	0.39636	0.36868	0.25559	0.07274	0.06057	0.25559	1.04594	0.99891
595394.00	4172983.00	0.28349	0.35987	0.32863	0.23154	0.06958	0.058	0.23154	0.92511	0.8693
595394.00	4173003.00	0.25793	0.32763	0.29448	0.21034	0.06654	0.05552	0.21034	0.81738	0.74798
595394.00	4173023.00	0.23583	0.29966	0.26591	0.19209	0.06375	0.05324	0.19209	0.72421	0.64375
595394.00	4173043.00	0.21638	0.27501	0.24141	0.17608	0.06113	0.0511	0.17608	0.64263	0.55486
595394.00	4173063.00	0.1989	0.25285	0.21986	0.1617	0.05859	0.04903	0.1617	0.56984	0.47802
595394.00	4173083.00	0.18335	0.23311	0.20108	0.14895	0.05618	0.04707	0.14895	0.50576	0.41267
595394.00	4173103.00	0.16958	0.21555	0.18469	0.13766	0.05394	0.04523	0.13766	0.4498	0.35755
595394.00	4173123.00	0.15735	0.19991	0.17034	0.12764	0.05184	0.0435	0.12764	0.40125	0.31133
595394.00	4173143.00	0.14665	0.1862	0.15798	0.11889	0.04995	0.04193	0.11889	0.36011	0.27344
595394.00	4173163.00	0.13696	0.17375	0.14688	0.11096	0.04814	0.04043	0.11096	0.32415	0.24141
595394.00	4173183.00	0.12823	0.16252	0.13696	0.10381	0.04643	0.03902	0.10381	0.29298	0.21451
595413.93	4172953.11	0.32372	0.42657	0.43418	0.26548	0.07679	0.06493	0.26548	0.99795	0.92541
595414.00	4172783.00	0.82453	1.20066	2.65122	0.6866	0.1211	0.10178	0.6866	1.88251	1.58343
595414.00	4172803.00	0.73075	1.03811	1.8537	0.60829	0.11395	0.09589	0.60829	1.83317	1.4953
595414.00	4172823.00	0.64869	0.90409	1.38778	0.53962	0.10746	0.09053	0.53962	1.75844	1.41865
595414.00	4172843.00	0.57885	0.79436	1.09178	0.48095	0.10176	0.08576	0.48095	1.6625	1.35404
595414.00	4172863.00	0.51717	0.70085	0.88421	0.42899	0.09633	0.08126	0.42899	1.55071	1.29133
595414.00	4172883.00	0.46403	0.62255	0.73491	0.38406	0.09143	0.07717	0.38406	1.42882	1.22865
595414.00	4172903.00	0.41853	0.55739	0.62485	0.34555	0.08717	0.07355	0.34555	1.30389	1.16106
595414.00	4172923.00	0.37653	0.49871	0.53468	0.31002	0.0827	0.06986	0.31002	1.17698	1.07475
595414.00	4172943.00	0.34023	0.44903	0.46441	0.27938	0.0787	0.06653	0.27938	1.05572	0.97749
595414.00	4172963.00	0.30855	0.40615	0.40772	0.25274	0.07501	0.06344	0.25274	0.94308	0.87252
595414.00	4172983.00	0.28116	0.36922	0.36164	0.22982	0.07165	0.06062	0.22982	0.84199	0.76907
595414.00	4173003.00	0.25698	0.33678	0.32304	0.20967	0.0685	0.05797	0.20967	0.75159	0.67239
595414.00	4173023.00	0.23575	0.30835	0.29059	0.19207	0.06557	0.05551	0.19207	0.67197	0.58717
595414.00	4173043.00	0.21669	0.28295	0.26257	0.17632	0.06276	0.05315	0.17632	0.60071	0.51237
595414.00	4173063.00	0.19967	0.26029	0.23834	0.16229	0.06009	0.05091	0.16229	0.53717	0.44755
595414.00	4173083.00	0.18452	0.24016	0.21741	0.14984	0.05759	0.04882	0.14984	0.48086	0.39175
595414.00	4173103.00	0.17103	0.22221	0.1992	0.13878	0.05526	0.04686	0.13878	0.43103	0.34369
595414.00	4173123.00	0.15905	0.20625	0.18337	0.12897	0.05311	0.04504	0.12897	0.38742	0.30272
595414.00	4173143.00	0.14905	0.19284	0.17041	0.1208	0.05134	0.04352	0.1208	0.35175	0.26994
595414.00	4173163.00	0.13917	0.17972	0.15782	0.11271	0.04939	0.04188	0.11271	0.31754	0.23942
595414.00	4173183.00	0.1301	0.16768	0.14641	0.10529	0.0475	0.04029	0.10529	0.28712	0.21305
595424.36	4172061.47	6.25632	0.23302	0.14573	5.20773	3.67873	1.69746	5.20773	1.77378	3.45548
595427.66	4172811.08	0.66457	0.97161	1.75999	0.55311	0.11433	0.09778	0.55311	1.63646	1.3414
595432.70	4172731.56	1.01283	1.71572	8.83402	0.84359	0.14959	0.12864	0.84359	1.64436	1.59474
595434.00	4172783.00	0.76201	1.17114	2.86285	0.63455	0.12652	0.10899	0.63455	1.63208	1.38618
595434.00	4172803.00	0.68055	1.01905	2.02942	0.56654	0.11864	0.10222	0.56654	1.58943	1.31588
595434.00	4172823.00	0.60966	0.89411	1.53031	0.50723	0.11173	0.09625	0.50723	1.52616	1.25381
595434.00	4172843.00	0.54807	0.78981	1.20418	0.45555	0.10556	0.09089	0.45555	1.44665	1.19683
595434.00	4172863.00	0.49389	0.70106	0.97583	0.40994	0.09987	0.08596	0.40994	1.35493	1.14028
595434.00	4172883.00	0.44712	0.6265	0.81141	0.37043	0.09483	0.08156	0.37043	1.25581	1.08281
595434.00	4172903.00	0.40496	0.56154	0.68542	0.33474	0.09004	0.07739	0.33474	1.15283	1.01753
595434.00	4172943.00	0.33349	0.4555	0.50769	0.27424	0.0812	0.06978	0.27424	0.94888	0.8599
595434.00	4172963.00	0.30395	0.41298	0.44461	0.2493	0.07732	0.06644	0.2493	0.85509	0.77374
595434.00	4172983.00	0.27809	0.37612	0.39324	0.22756	0.07378	0.06337	0.22756	0.76985	0.68926
595434.00	4173003.00	0.25505	0.3436	0.35029	0.20828	0.07045	0.06049	0.20828	0.69272	0.60965
595434.00	4173023.00	0.2344	0.31468	0.31384	0.19106	0.06729	0.05777	0.19106	0.62318	0.53742

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595434.00	4173043.00	0.21619	0.28925	0.28308	0.17596	0.06438	0.05525	0.17596	0.56173	0.47477
595434.00	4173063.00	0.19978	0.26646	0.25648	0.16239	0.06161	0.05287	0.16239	0.50632	0.41964
595434.00	4173083.00	0.18511	0.24616	0.23355	0.1503	0.05903	0.05065	0.1503	0.45682	0.37168
595434.00	4173103.00	0.17198	0.22802	0.21363	0.13952	0.05662	0.04857	0.13952	0.41254	0.32976
595434.00	4173123.00	0.1603	0.21188	0.19637	0.12994	0.05441	0.04665	0.12994	0.37341	0.29347
595434.00	4173143.00	0.15035	0.19803	0.18193	0.12182	0.05253	0.045	0.12182	0.3405	0.26348
595434.00	4173163.00	0.14054	0.1846	0.16814	0.11378	0.05049	0.04325	0.11378	0.30874	0.2352
595434.00	4173183.00	0.13159	0.17237	0.15581	0.10646	0.04855	0.04158	0.10646	0.28052	0.21065
595440.32	4172695.89	1.15788	2.19962	12.4918	0.96452	0.17319	0.15075	0.96452	1.46329	1.60638
595453.66	4172369.33	2.74667	5.72208	5.44463	2.29324	1.3856	1.40961	2.29324	2.36373	9.98366
595454.00	4172803.00	0.63642	0.99173	2.07672	0.52985	0.12339	0.10889	0.52985	1.39287	1.16786
595454.00	4172823.00	0.57436	0.87604	1.6015	0.47794	0.11602	0.10224	0.47794	1.33826	1.11591
595454.00	4172843.00	0.52002	0.77863	1.27601	0.43238	0.10946	0.0963	0.43238	1.2712	1.0659
595454.00	4172863.00	0.47245	0.69587	1.04337	0.39235	0.10357	0.09096	0.39235	1.19505	1.01566
595454.00	4172883.00	0.42913	0.62294	0.86706	0.3558	0.09791	0.08589	0.3558	1.11235	0.96009
595454.00	4172903.00	0.39109	0.56065	0.73384	0.32362	0.09285	0.08133	0.32362	1.02696	0.90097
595454.00	4172943.00	0.32602	0.45842	0.54506	0.26847	0.08369	0.07315	0.26847	0.85772	0.76584
595454.00	4172963.00	0.29836	0.41654	0.47685	0.24506	0.07957	0.06948	0.24506	0.77845	0.69331
595454.00	4172983.00	0.27412	0.38027	0.42148	0.22461	0.07586	0.06618	0.22461	0.70616	0.62326
595454.00	4173003.00	0.25241	0.3482	0.37522	0.20635	0.07241	0.06309	0.20635	0.64027	0.55707
595454.00	4173023.00	0.23256	0.3193	0.33561	0.18973	0.06906	0.06014	0.18973	0.57967	0.49548
595454.00	4173043.00	0.21505	0.29389	0.30227	0.17513	0.066	0.05743	0.17513	0.52587	0.44168
595454.00	4173063.00	0.19943	0.27133	0.2738	0.16217	0.06318	0.05493	0.16217	0.47777	0.39469
595454.00	4173083.00	0.18535	0.25113	0.24918	0.15053	0.06053	0.05258	0.15053	0.43434	0.35325
595454.00	4173103.00	0.1727	0.23303	0.22781	0.14011	0.05807	0.0504	0.14011	0.3952	0.31669
595454.00	4173123.00	0.16133	0.21682	0.2092	0.13077	0.05578	0.04837	0.13077	0.36004	0.28443
595465.61	4172972.42	0.28319	0.39947	0.46425	0.23251	0.07895	0.06957	0.23251	0.70611	0.62221
595474.00	4172803.00	0.59822	0.96046	2.04666	0.49809	0.12846	0.11607	0.49809	1.23203	1.04633
595474.00	4172823.00	0.54221	0.85176	1.61295	0.45126	0.1203	0.10845	0.45126	1.18448	0.99969
595474.00	4172843.00	0.4933	0.76047	1.30463	0.41028	0.11319	0.10179	0.41028	1.12681	0.9543
595474.00	4172863.00	0.45104	0.68375	1.08003	0.37475	0.10703	0.09597	0.37475	1.06252	0.90933
595474.00	4172883.00	0.41237	0.61561	0.90547	0.34215	0.10116	0.09049	0.34215	0.99325	0.85958
595474.00	4172903.00	0.37744	0.55581	0.76907	0.31261	0.0957	0.08544	0.31261	0.92134	0.8057
595474.00	4172923.00	0.34667	0.50455	0.66284	0.28653	0.09088	0.08094	0.28653	0.85018	0.74993
595474.00	4172963.00	0.29188	0.41687	0.50295	0.24007	0.08172	0.07256	0.24007	0.71113	0.62621
595474.00	4172983.00	0.26914	0.38147	0.44479	0.22082	0.07782	0.06898	0.22082	0.64911	0.5669
595474.00	4173003.00	0.24878	0.35021	0.39629	0.20363	0.07424	0.06569	0.20363	0.59248	0.51116
595474.00	4173023.00	0.23014	0.32202	0.35481	0.18796	0.07081	0.06256	0.18796	0.54026	0.45911
595474.00	4173043.00	0.21333	0.29685	0.31944	0.17389	0.06761	0.05966	0.17389	0.49293	0.4124
595474.00	4173063.00	0.19844	0.27462	0.2894	0.16147	0.0647	0.05701	0.16147	0.45079	0.37172
595474.00	4173083.00	0.18504	0.25473	0.26349	0.15036	0.062	0.05455	0.15036	0.41272	0.33579
595474.00	4173103.00	0.17296	0.2369	0.24099	0.14037	0.0595	0.05227	0.14037	0.37826	0.30391
595474.00	4173123.00	0.16208	0.2209	0.22141	0.13142	0.05718	0.05016	0.13142	0.34711	0.27557
595494.00	4172823.00	0.51374	0.82484	1.58881	0.42763	0.12484	0.11506	0.42763	1.05722	0.90283
595494.00	4172843.00	0.46983	0.74034	1.30739	0.39085	0.11727	0.1077	0.39085	1.00719	0.86204
595494.00	4172863.00	0.43125	0.66815	1.0941	0.35844	0.1106	0.10121	0.35844	0.95196	0.82041
595494.00	4172883.00	0.39603	0.60407	0.92522	0.32877	0.10436	0.0952	0.32877	0.89293	0.77513
595494.00	4172903.00	0.36445	0.54807	0.79188	0.30209	0.09868	0.08975	0.30209	0.83219	0.72739
595494.00	4172923.00	0.33564	0.4984	0.68414	0.27769	0.09341	0.08472	0.27769	0.77101	0.67679
595494.00	4172963.00	0.28587	0.41574	0.52443	0.23545	0.08409	0.07588	0.23545	0.65386	0.57224
595494.00	4172983.00	0.26442	0.38128	0.46444	0.21725	0.07996	0.07199	0.21725	0.60013	0.52109
595494.00	4173003.00	0.24494	0.35052	0.41391	0.20076	0.07613	0.06839	0.20076	0.55031	0.47243
595494.00	4173023.00	0.22741	0.32318	0.37124	0.18597	0.0726	0.06508	0.18597	0.50496	0.42782
595494.00	4173043.00	0.21144	0.29857	0.33456	0.17253	0.06929	0.06199	0.17253	0.4634	0.38716

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595494.00	4173063.00	0.19719	0.27673	0.30329	0.1606	0.06627	0.05917	0.1606	0.42613	0.35139
595494.00	4173083.00	0.18461	0.25749	0.27666	0.15013	0.06357	0.05664	0.15013	0.39312	0.32046
595494.00	4173103.00	0.17279	0.23967	0.2529	0.14032	0.06093	0.05418	0.14032	0.36191	0.29167
595494.00	4173123.00	0.16199	0.22349	0.23199	0.13138	0.05843	0.05188	0.13138	0.33314	0.26559
595494.00	4173143.00	0.1514	0.20802	0.21265	0.12263	0.05584	0.04953	0.12263	0.30484	0.24028
595497.98	4172569.45	1.33317	3.64265	15.81097	1.11177	0.36043	0.36292	1.11177	0.78531	0.95898
595503.43	4172797.49	0.56278	0.93619	2.0432	0.46867	0.13868	0.12977	0.46867	1.05353	0.91225
595509.20	4172311.10	2.34398	2.33912	1.50997	1.95909	3.60759	7.86917	1.95909	2.31271	11.29395
595514.00	4171823.00	0.38317	0.08499	0.05545	0.31345	0.2895	0.15313	0.31345	0.14468	0.14477
595514.00	4171843.00	0.45361	0.08944	0.05849	0.37179	0.32286	0.16944	0.37179	0.16009	0.16587
595514.00	4171863.00	0.54697	0.09436	0.06182	0.44928	0.36302	0.18859	0.44928	0.17866	0.19303
595514.00	4171883.00	0.68875	0.10065	0.06574	0.56739	0.41776	0.2127	0.56739	0.2041	0.2317
595514.00	4171903.00	0.87381	0.10693	0.06985	0.72178	0.4798	0.24057	0.72178	0.23306	0.28257
595514.00	4172783.00	0.57961	0.98486	2.2744	0.48277	0.14824	0.141	0.48277	1.01836	0.88954
595514.00	4172823.00	0.48772	0.79512	1.53953	0.406	0.12942	0.12189	0.406	0.95078	0.82059
595514.00	4172843.00	0.44813	0.71739	1.28767	0.37285	0.1214	0.11382	0.37285	0.90689	0.78371
595514.00	4172863.00	0.4126	0.64953	1.08897	0.34304	0.11418	0.10659	0.34304	0.85876	0.74503
595514.00	4172883.00	0.38108	0.5907	0.93195	0.3165	0.10776	0.10017	0.3165	0.8083	0.70504
595514.00	4172903.00	0.35162	0.53724	0.80198	0.29164	0.10163	0.09413	0.29164	0.7558	0.66135
595514.00	4172923.00	0.32514	0.49035	0.69693	0.26922	0.09609	0.08869	0.26922	0.70335	0.61653
595514.00	4172943.00	0.30162	0.44963	0.61198	0.24927	0.09117	0.08385	0.24927	0.65284	0.5722
595514.00	4172963.00	0.27937	0.41215	0.53937	0.23037	0.08641	0.07924	0.23037	0.60307	0.52607
595514.00	4172983.00	0.25887	0.37845	0.47819	0.21296	0.08197	0.07496	0.21296	0.55564	0.48066
595514.00	4173003.00	0.24067	0.34897	0.42739	0.19752	0.078	0.07113	0.19752	0.51237	0.43873
595514.00	4173023.00	0.22408	0.32249	0.38401	0.18347	0.07432	0.06759	0.18347	0.47246	0.39974
595514.00	4173043.00	0.20885	0.2985	0.34653	0.17062	0.07086	0.06429	0.17062	0.4356	0.36385
595514.00	4173063.00	0.19519	0.27714	0.31444	0.15914	0.06771	0.06128	0.15914	0.40236	0.33205
595514.00	4173083.00	0.18319	0.25836	0.28713	0.1491	0.06492	0.0586	0.1491	0.37297	0.30459
595514.00	4173103.00	0.17097	0.23987	0.26151	0.13888	0.06189	0.05578	0.13888	0.34292	0.27678
595514.00	4173123.00	0.16052	0.22393	0.23993	0.1302	0.0593	0.05333	0.1302	0.31693	0.25336
595515.00	4172097.00	4.65947	0.26828	0.15821	3.88957	7.59543	2.29933	3.88957	4.55915	10.6355
595531.70	4172736.24	0.6633	1.19454	3.2775	0.5526	0.18174	0.1794	0.5526	0.96503	0.88682
595534.00	4171763.00	0.24154	0.07095	0.04635	0.19684	0.20587	0.11143	0.19684	0.10585	0.09753
595534.00	4171783.00	0.26962	0.07383	0.04848	0.2198	0.22338	0.12092	0.2198	0.11395	0.10755
595534.00	4171803.00	0.31097	0.07769	0.05104	0.25379	0.24746	0.13258	0.25379	0.12513	0.12077
595534.00	4171823.00	0.36549	0.08204	0.05386	0.29873	0.27637	0.14623	0.29873	0.13855	0.13726
595534.00	4171843.00	0.43792	0.08684	0.05695	0.35859	0.31086	0.16219	0.35859	0.15456	0.15811
595534.00	4171863.00	0.5367	0.09218	0.06034	0.44045	0.3525	0.18105	0.44045	0.17391	0.18515
595534.00	4171883.00	0.6844	0.09867	0.06427	0.56322	0.40712	0.20441	0.56322	0.19938	0.22322
595534.00	4171903.00	0.87035	0.10472	0.06819	0.71808	0.46525	0.23051	0.71808	0.22658	0.27121
595534.00	4171923.00	1.16577	0.11249	0.07288	0.96467	0.54599	0.26418	0.96467	0.26458	0.34567
595534.00	4171943.00	1.61976	0.12163	0.07823	1.34432	0.65276	0.30679	1.34432	0.31523	0.46321
595534.00	4172643.00	0.92002	1.9529	6.76232	0.76676	0.27133	0.28108	0.76676	0.86976	0.9514
595534.00	4172663.00	0.86137	1.75058	5.8924	0.7178	0.24744	0.25343	0.7178	0.90161	0.94681
595534.00	4172683.00	0.80374	1.57054	5.08274	0.66971	0.22669	0.22978	0.66971	0.92759	0.93566
595534.00	4172743.00	0.64131	1.14548	3.03886	0.53426	0.17806	0.1758	0.53426	0.95321	0.86977
595534.00	4172763.00	0.59189	1.03313	2.51943	0.49305	0.16517	0.16187	0.49305	0.94247	0.84168
595534.00	4172783.00	0.54589	0.93325	2.09512	0.45467	0.1537	0.14961	0.45467	0.92256	0.81273
595534.00	4172803.00	0.50366	0.84478	1.75595	0.41941	0.14352	0.13879	0.41941	0.89478	0.78312
595534.00	4172823.00	0.46408	0.76412	1.47715	0.38633	0.13408	0.12891	0.38633	0.86088	0.75084
595534.00	4172843.00	0.42757	0.69171	1.25023	0.35578	0.12542	0.11996	0.35578	0.82185	0.71623
595534.00	4172863.00	0.39491	0.62852	1.06872	0.32839	0.11773	0.11203	0.32839	0.7794	0.68053
595534.00	4172883.00	0.36627	0.57423	0.92425	0.30429	0.11102	0.10511	0.30429	0.73557	0.6446
595534.00	4172903.00	0.33941	0.52458	0.80228	0.28165	0.10465	0.09864	0.28165	0.6902	0.60572

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595534.00	4172923.00	0.31492	0.48038	0.7014	0.26094	0.09881	0.09275	0.26094	0.64474	0.5657
595534.00	4172943.00	0.2932	0.44199	0.61917	0.24252	0.09366	0.08755	0.24252	0.60106	0.52663
595534.00	4172983.00	0.25354	0.37453	0.48799	0.20883	0.08411	0.07808	0.20883	0.51677	0.44683
595534.00	4173003.00	0.23636	0.34616	0.43726	0.19423	0.07995	0.07396	0.19423	0.47863	0.40985
595534.00	4173023.00	0.22063	0.3206	0.39376	0.18088	0.0761	0.07018	0.18088	0.44329	0.37537
595534.00	4173043.00	0.20596	0.29717	0.35574	0.16845	0.07245	0.06663	0.16845	0.41016	0.34309
595534.00	4173063.00	0.19279	0.27627	0.32313	0.15734	0.06913	0.06339	0.15734	0.38017	0.31435
595534.00	4173083.00	0.18076	0.25735	0.29466	0.14722	0.06604	0.0604	0.14722	0.3526	0.28844
595554.00	4171763.00	0.23146	0.06857	0.04507	0.18856	0.19693	0.10678	0.18856	0.10157	0.0933
595554.00	4171783.00	0.26615	0.07236	0.04747	0.21709	0.2183	0.11685	0.21709	0.11156	0.10438
595554.00	4171803.00	0.30647	0.07612	0.04994	0.25024	0.24133	0.12797	0.25024	0.12229	0.11723
595554.00	4171823.00	0.36352	0.08071	0.05279	0.29725	0.27085	0.14143	0.29725	0.13606	0.13406
595554.00	4171843.00	0.43264	0.08526	0.05573	0.35425	0.30296	0.15645	0.35425	0.15102	0.15422
595554.00	4171863.00	0.53113	0.09063	0.05907	0.43569	0.34343	0.17463	0.43569	0.1699	0.18126
595554.00	4171883.00	0.67339	0.09685	0.06284	0.55362	0.39428	0.1967	0.55362	0.19366	0.21844
595554.00	4171903.00	0.872	0.10351	0.06689	0.71873	0.45453	0.22278	0.71873	0.22189	0.26882
595554.00	4171923.00	1.17501	0.11134	0.0715	0.97136	0.53255	0.25532	0.97136	0.25859	0.34375
595554.00	4171943.00	1.64546	0.12048	0.07675	1.36457	0.63473	0.29643	1.36457	0.30694	0.46067
595554.00	4171963.00	2.40621	0.13141	0.08285	2.00119	0.77411	0.34999	2.00119	0.37346	0.65679
595554.00	4172643.00	0.85098	1.76086	5.59281	0.70916	0.2826	0.30235	0.70916	0.8188	0.89586
595554.00	4172663.00	0.79805	1.58993	4.92491	0.66498	0.25747	0.27183	0.66498	0.84205	0.88347
595554.00	4172683.00	0.74632	1.43665	4.29675	0.62182	0.23569	0.24583	0.62182	0.86032	0.86796
595554.00	4172763.00	0.55671	0.97031	2.27577	0.46371	0.17106	0.17156	0.46371	0.86016	0.77488
595554.00	4172783.00	0.51543	0.88209	1.92769	0.42927	0.15903	0.15822	0.42927	0.84081	0.74769
595554.00	4172803.00	0.47719	0.80277	1.64076	0.39735	0.14826	0.14642	0.39735	0.81507	0.71971
595554.00	4172843.00	0.4089	0.66565	1.20501	0.34025	0.12955	0.12627	0.34025	0.74939	0.65899
595554.00	4172863.00	0.37902	0.60748	1.04142	0.3152	0.12148	0.11771	0.3152	0.71182	0.62632
595554.00	4172883.00	0.3528	0.55735	0.90938	0.29317	0.11445	0.11025	0.29317	0.67338	0.59382
595554.00	4172903.00	0.32837	0.51162	0.79676	0.27259	0.10789	0.10338	0.27259	0.63403	0.55939
595554.00	4172923.00	0.30582	0.47032	0.70143	0.25354	0.10182	0.0971	0.25354	0.59459	0.52388
595554.00	4172943.00	0.28509	0.43321	0.62087	0.23598	0.09625	0.09136	0.23598	0.55581	0.48807
595554.00	4172963.00	0.26591	0.39966	0.55224	0.2197	0.09109	0.0861	0.2197	0.51814	0.45242
595554.00	4172983.00	0.24818	0.36937	0.49362	0.20463	0.08632	0.08127	0.20463	0.4821	0.41766
595554.00	4173003.00	0.2319	0.34211	0.4435	0.19079	0.08194	0.07686	0.19079	0.44825	0.38465
595554.00	4173023.00	0.21691	0.31744	0.40024	0.17805	0.07789	0.0728	0.17805	0.41664	0.35368
595554.00	4173043.00	0.20305	0.29499	0.36259	0.16628	0.07412	0.06905	0.16628	0.38721	0.32495
595554.00	4173063.00	0.19049	0.27482	0.33003	0.15565	0.07067	0.06562	0.15565	0.36032	0.29908
595554.00	4173083.00	0.17904	0.25657	0.30161	0.14599	0.06749	0.06247	0.14599	0.33565	0.27579
595568.33	4173021.18	0.21526	0.31638	0.40637	0.17686	0.07951	0.07503	0.17686	0.4013	0.34184
595574.00	4171743.00	0.20975	0.06559	0.04237	0.17099	0.18165	0.09682	0.17099	0.09443	0.08364
595574.00	4171763.00	0.23767	0.06899	0.04448	0.19397	0.1997	0.10547	0.19397	0.1029	0.09277
595574.00	4171783.00	0.26573	0.07126	0.04659	0.21695	0.21397	0.11331	0.21695	0.10957	0.10246
595574.00	4171803.00	0.31629	0.07693	0.04936	0.25867	0.2459	0.12682	0.25867	0.12451	0.11802
595574.00	4171823.00	0.37204	0.08144	0.05202	0.30463	0.27457	0.13985	0.30463	0.13788	0.13472
595574.00	4171843.00	0.44926	0.08674	0.05524	0.36826	0.31126	0.15584	0.36826	0.15499	0.15845
595574.00	4171863.00	0.52621	0.08948	0.05795	0.43162	0.3346	0.16919	0.43162	0.16598	0.18071
595574.00	4171883.00	0.66167	0.09556	0.06158	0.54369	0.38236	0.19037	0.54369	0.18831	0.21833
595574.00	4171903.00	0.87662	0.10327	0.06596	0.72212	0.44802	0.21775	0.72212	0.21906	0.27532
595574.00	4171923.00	1.17831	0.11116	0.07052	0.97332	0.52368	0.24981	0.97332	0.25458	0.3532
595574.00	4171943.00	1.6675	0.12077	0.07587	1.38171	0.62651	0.29145	1.38171	0.30307	0.47603
595574.00	4171963.00	2.47386	0.13209	0.08203	2.05602	0.76538	0.34579	2.05602	0.36907	0.67567
595574.00	4171983.00	3.90735	0.14566	0.08927	3.25443	0.9607	0.41905	3.25443	0.46313	1.02332
595574.00	4172643.00	0.79	1.59141	4.69314	0.65823	0.29224	0.3221	0.65823	0.77216	0.84772
595574.00	4172663.00	0.74233	1.44736	4.17689	0.61845	0.26644	0.28932	0.61845	0.78855	0.83017

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595574.00	4172683.00	0.69604	1.31732	3.6867	0.57984	0.24405	0.26142	0.57984	0.80066	0.81178
595574.00	4172763.00	0.52561	0.91151	2.06703	0.43774	0.17688	0.18128	0.43774	0.78902	0.71879
595574.00	4172783.00	0.48864	0.8341	1.7799	0.4069	0.16444	0.16701	0.4069	0.77031	0.69318
595574.00	4172803.00	0.4539	0.76311	1.53524	0.3779	0.15316	0.15426	0.3779	0.74646	0.66652
595574.00	4172823.00	0.4219	0.69896	1.33092	0.35117	0.14305	0.14296	0.35117	0.71843	0.63924
595574.00	4172843.00	0.39201	0.63988	1.15645	0.32617	0.13376	0.13272	0.32617	0.68722	0.61033
595574.00	4172863.00	0.36496	0.58724	1.01127	0.30351	0.12546	0.12365	0.30351	0.65401	0.58085
595574.00	4172883.00	0.3403	0.54005	0.88888	0.28281	0.11796	0.11552	0.28281	0.61972	0.55057
595574.00	4172903.00	0.31752	0.49718	0.78395	0.26364	0.11106	0.10812	0.26364	0.58488	0.51915
595574.00	4172923.00	0.29627	0.45785	0.69316	0.24571	0.1046	0.10129	0.24571	0.54977	0.48653
595574.00	4172943.00	0.27667	0.42246	0.61589	0.22913	0.09869	0.09509	0.22913	0.51521	0.45387
595574.00	4172963.00	0.25908	0.39135	0.55124	0.21421	0.09342	0.08958	0.21421	0.48239	0.42262
595574.00	4172983.00	0.24221	0.36225	0.49405	0.19988	0.08838	0.08438	0.19988	0.45014	0.3911
595574.00	4173003.00	0.22685	0.3363	0.44533	0.18681	0.08381	0.07968	0.18681	0.42	0.36151
595574.00	4173023.00	0.21292	0.31308	0.40353	0.17496	0.07967	0.07543	0.17496	0.39214	0.33417
595574.00	4173043.00	0.20001	0.29191	0.36697	0.16399	0.07583	0.07152	0.16399	0.36616	0.30875
595574.00	4173063.00	0.1878	0.27221	0.33439	0.15362	0.07218	0.06784	0.15362	0.34155	0.28484
595574.00	4173083.00	0.17674	0.25447	0.30603	0.14426	0.06885	0.06448	0.14426	0.31904	0.26341
595594.00	4171743.00	0.20823	0.06443	0.04149	0.16988	0.17709	0.09403	0.16988	0.09229	0.08195
595594.00	4171763.00	0.23623	0.06787	0.04361	0.19293	0.19486	0.10247	0.19293	0.10066	0.0914
595594.00	4171783.00	0.26188	0.0699	0.04559	0.21391	0.20729	0.10961	0.21391	0.1065	0.10069
595594.00	4171803.00	0.3154	0.07596	0.0485	0.25812	0.24049	0.12364	0.25812	0.12207	0.11783
595594.00	4171823.00	0.37159	0.08061	0.05118	0.30446	0.269	0.13671	0.30446	0.13541	0.13567
595594.00	4171843.00	0.44688	0.08595	0.05427	0.36657	0.30432	0.15257	0.36657	0.1519	0.15975
595594.00	4171863.00	0.52357	0.08887	0.05703	0.42962	0.3274	0.16526	0.42962	0.16279	0.18375
595594.00	4171883.00	0.65853	0.0953	0.06074	0.5412	0.37561	0.18675	0.5412	0.18531	0.22465
595594.00	4171903.00	0.8688	0.10329	0.06518	0.71553	0.44131	0.21466	0.71553	0.21602	0.28616
595594.00	4171923.00	1.1733	0.11187	0.06995	0.96865	0.52032	0.24831	0.96865	0.25301	0.37206
595594.00	4171943.00	1.66492	0.12193	0.07544	1.37834	0.62491	0.29169	1.37834	0.30219	0.5029
595594.00	4171963.00	2.51753	0.13406	0.08191	2.09032	0.77004	0.34981	2.09032	0.37101	0.71333
595594.00	4172783.00	0.46349	0.78598	1.63735	0.38587	0.16924	0.1753	0.38587	0.7093	0.64516
595594.00	4172803.00	0.43175	0.72243	1.42801	0.35938	0.15752	0.16168	0.35938	0.68701	0.6195
595594.00	4172823.00	0.40278	0.66542	1.25286	0.3352	0.14714	0.14973	0.3352	0.66137	0.594
595594.00	4172863.00	0.35107	0.56516	0.9733	0.29193	0.12913	0.12938	0.29193	0.60346	0.54052
595594.00	4172883.00	0.32771	0.5205	0.85948	0.27234	0.12112	0.12053	0.27234	0.5724	0.51179
595594.00	4172903.00	0.30637	0.48036	0.76252	0.2544	0.11388	0.1126	0.2544	0.54109	0.4828
595594.00	4172923.00	0.28691	0.44434	0.67969	0.238	0.10731	0.10547	0.238	0.51013	0.45384
595594.00	4172943.00	0.26898	0.41177	0.60831	0.22285	0.1013	0.099	0.22285	0.47984	0.42503
595594.00	4172963.00	0.25241	0.38229	0.54663	0.20881	0.09579	0.09311	0.20881	0.45056	0.39672
595594.00	4172983.00	0.23669	0.35495	0.49216	0.19547	0.0906	0.08764	0.19547	0.42201	0.36858
595594.00	4173003.00	0.22228	0.33038	0.44528	0.18322	0.08588	0.08268	0.18322	0.39518	0.34201
595594.00	4173023.00	0.20917	0.30839	0.40489	0.17205	0.0816	0.07821	0.17205	0.37033	0.31743
595614.00	4171743.00	0.20754	0.06359	0.04082	0.16943	0.17346	0.09185	0.16943	0.09062	0.08158
595614.00	4171763.00	0.23522	0.06666	0.04296	0.19223	0.18939	0.09917	0.19223	0.0982	0.09146
595614.00	4171783.00	0.26164	0.06911	0.04481	0.2139	0.2025	0.10688	0.2139	0.10436	0.10068
595614.00	4171803.00	0.31584	0.07536	0.04779	0.25867	0.23601	0.12125	0.25867	0.12008	0.1194
595614.00	4171823.00	0.37339	0.08026	0.05058	0.30614	0.26524	0.13502	0.30614	0.13378	0.13932
595614.00	4171843.00	0.44949	0.08583	0.05373	0.36896	0.301	0.15137	0.36896	0.15049	0.16579
595614.00	4171863.00	0.52318	0.08882	0.05636	0.42961	0.32255	0.16324	0.42961	0.16066	0.19027
595614.00	4171883.00	0.65605	0.09558	0.06016	0.5395	0.37164	0.18555	0.5395	0.18356	0.23511
595614.00	4171903.00	0.86184	0.10406	0.06479	0.71004	0.43964	0.21512	0.71004	0.21529	0.30291
595614.00	4171923.00	1.16354	0.11343	0.06988	0.96044	0.5242	0.25177	0.96044	0.25482	0.39872
595614.00	4171943.00	1.64325	0.12404	0.07559	1.35927	0.63318	0.29855	1.35927	0.30602	0.53943
595614.00	4171963.00	2.51024	0.13684	0.0824	2.08173	0.78562	0.36217	2.08173	0.37833	0.76139

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595614.00	4172783.00	0.44118	0.74161	1.51201	0.3672	0.17391	0.18345	0.3672	0.65599	0.60406
595614.00	4172803.00	0.41227	0.68507	1.33296	0.34308	0.16191	0.16912	0.34308	0.63523	0.5796
595614.00	4172823.00	0.38553	0.63348	1.17936	0.32076	0.15115	0.15644	0.32076	0.61169	0.55511
595614.00	4172863.00	0.3381	0.54313	0.9333	0.2811	0.1327	0.13504	0.2811	0.55934	0.50548
595614.00	4172883.00	0.31597	0.50108	0.82785	0.26256	0.12425	0.12554	0.26256	0.53106	0.47825
595614.00	4172903.00	0.296	0.46373	0.73885	0.24579	0.11674	0.11714	0.24579	0.50278	0.4515
595614.00	4172923.00	0.27837	0.43114	0.66439	0.23094	0.11013	0.10977	0.23094	0.47555	0.42598
595614.00	4172943.00	0.26162	0.4007	0.59778	0.21681	0.10393	0.10295	0.21681	0.4485	0.39992
595614.00	4172963.00	0.24607	0.37293	0.53953	0.20364	0.09823	0.09673	0.20364	0.4223	0.37427
595614.00	4172983.00	0.23145	0.34738	0.48814	0.19125	0.09292	0.09101	0.19125	0.39697	0.3491
595616.96	4172890.78	0.30645	0.4835	0.78752	0.25458	0.1217	0.12289	0.25458	0.51458	0.46345
595634.00	4171743.00	0.20505	0.06204	0.0401	0.16754	0.16626	0.0885	0.16754	0.08729	0.081
595634.00	4171763.00	0.23593	0.0665	0.04233	0.19299	0.18713	0.09787	0.19299	0.09721	0.09255
595634.00	4171783.00	0.27135	0.0702	0.04467	0.22218	0.20648	0.10719	0.22218	0.10644	0.10573
595634.00	4171803.00	0.31661	0.07471	0.04726	0.25951	0.23089	0.11871	0.25951	0.11796	0.12265
595634.00	4171823.00	0.37549	0.08026	0.0501	0.30813	0.26258	0.1346	0.30813	0.13266	0.14458
595634.00	4171843.00	0.45182	0.08611	0.05334	0.3712	0.29919	0.15185	0.3712	0.14976	0.17369
595634.00	4171863.00	0.54208	0.09055	0.05656	0.44577	0.32946	0.16626	0.44577	0.16399	0.20628
595634.00	4171883.00	0.6585	0.09662	0.05999	0.54204	0.373	0.18776	0.54204	0.18428	0.25048
595634.00	4171903.00	0.84737	0.10498	0.06456	0.69855	0.43925	0.21822	0.69855	0.21516	0.32102
595634.00	4171923.00	1.14772	0.1155	0.07022	0.94765	0.5337	0.26012	0.94765	0.25933	0.42946
595634.00	4171943.00	1.6074	0.12687	0.07634	1.32901	0.65097	0.31249	1.32901	0.3145	0.58188
595634.00	4171963.00	2.4555	0.14054	0.08368	2.03392	0.8156	0.38455	2.03392	0.3928	0.81817
595634.00	4172783.00	0.42035	0.69878	1.39472	0.34976	0.17796	0.1909	0.34976	0.60911	0.56732
595634.00	4172803.00	0.39414	0.64885	1.24256	0.3279	0.16586	0.17608	0.3279	0.58975	0.54425
595634.00	4172823.00	0.36932	0.60204	1.1072	0.30718	0.15477	0.16274	0.30718	0.568	0.52064
595634.00	4172843.00	0.34614	0.55859	0.98854	0.28783	0.14469	0.15078	0.28783	0.54448	0.49679
595634.00	4172883.00	0.30499	0.48184	0.79477	0.25339	0.12727	0.13046	0.25339	0.49471	0.44891
595634.00	4172903.00	0.28654	0.44769	0.71449	0.23792	0.11962	0.12171	0.23792	0.4693	0.42458
595634.00	4172923.00	0.26974	0.41687	0.64489	0.22379	0.11272	0.11388	0.22379	0.44444	0.40075
595634.00	4172943.00	0.25399	0.38835	0.58295	0.21051	0.10633	0.10671	0.21051	0.41998	0.37689
595637.78	4172033.56	8.75965	0.21301	0.12321	7.31136	2.22312	0.99435	7.31136	1.10049	4.24307
595654.00	4171743.00	0.20762	0.06256	0.03961	0.16985	0.16713	0.089	0.16985	0.08779	0.08306
595654.00	4171763.00	0.23691	0.06632	0.04178	0.19399	0.18483	0.09782	0.19399	0.0962	0.09456
595654.00	4171783.00	0.27331	0.07054	0.04419	0.22402	0.20596	0.10829	0.22402	0.10619	0.10914
595654.00	4171803.00	0.3127	0.07369	0.04655	0.25647	0.22273	0.11677	0.25647	0.11414	0.12436
595654.00	4171823.00	0.3781	0.08071	0.04986	0.31056	0.26217	0.13595	0.31056	0.13258	0.15207
595654.00	4171843.00	0.45493	0.08686	0.05324	0.37412	0.30024	0.15457	0.37412	0.15037	0.18421
595654.00	4171863.00	0.5573	0.09391	0.05708	0.4589	0.34792	0.17781	0.4589	0.17259	0.22755
595654.00	4171883.00	0.67816	0.09927	0.06078	0.55899	0.38742	0.19639	0.55899	0.19112	0.27606
595654.00	4171903.00	0.85575	0.10758	0.06534	0.7062	0.4542	0.22883	0.7062	0.22228	0.35049
595654.00	4171923.00	1.13051	0.11796	0.071	0.93398	0.54855	0.27343	0.93398	0.26646	0.46224
595654.00	4171943.00	1.56629	0.13013	0.07764	1.29518	0.67591	0.33305	1.29518	0.32652	0.6258
595654.00	4171963.00	2.34902	0.14431	0.08541	1.9442	0.84928	0.41369	1.9442	0.40916	0.86986
595654.00	4172803.00	0.37723	0.61409	1.15733	0.31372	0.16928	0.1824	0.31372	0.54952	0.51261
595654.00	4172823.00	0.35443	0.5722	1.03966	0.2947	0.15809	0.16865	0.2947	0.52947	0.49029
595654.00	4172843.00	0.33292	0.5328	0.93447	0.27675	0.14783	0.15624	0.27675	0.50787	0.46768
595654.00	4172883.00	0.29474	0.46303	0.76143	0.24483	0.13013	0.13519	0.24483	0.46262	0.42312
595674.00	4171743.00	0.20836	0.0625	0.03924	0.17065	0.16548	0.0888	0.17065	0.08711	0.08543
595674.00	4171763.00	0.23815	0.06642	0.04146	0.19522	0.18366	0.09811	0.19522	0.09575	0.09804
595674.00	4171783.00	0.27517	0.07086	0.04397	0.2258	0.20554	0.1093	0.2258	0.1061	0.11412
595674.00	4171803.00	0.31238	0.07391	0.04624	0.25647	0.22119	0.1175	0.25647	0.11354	0.12959
595674.00	4171823.00	0.38006	0.08079	0.04993	0.31253	0.26051	0.13577	0.31253	0.13199	0.16124
595674.00	4171843.00	0.44713	0.08587	0.05291	0.36803	0.29031	0.15214	0.36803	0.14594	0.19

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595674.00	4171863.00	0.53935	0.09249	0.05659	0.44445	0.33358	0.17431	0.44445	0.16614	0.23246
595674.00	4171883.00	0.6701	0.1006	0.06107	0.5529	0.39242	0.20383	0.5529	0.19359	0.29324
595674.00	4171903.00	0.8554	0.11021	0.0664	0.70657	0.47086	0.24277	0.70657	0.23023	0.37912
595674.00	4171923.00	1.12288	0.12129	0.07256	0.92834	0.57364	0.29371	0.92834	0.27844	0.49924
595674.00	4171943.00	1.53495	0.13406	0.07972	1.26987	0.70984	0.3612	1.26987	0.34276	0.66949
595674.00	4171963.00	2.24707	0.14864	0.08794	1.85996	0.89065	0.451	1.85996	0.42899	0.91332
595674.00	4172803.00	0.36145	0.5811	1.07792	0.30051	0.17213	0.18793	0.30051	0.5137	0.48408
595674.00	4172823.00	0.34044	0.54351	0.97529	0.28299	0.16091	0.17392	0.28299	0.49516	0.46299
595674.00	4172843.00	0.32037	0.50766	0.88169	0.26624	0.15052	0.16115	0.26624	0.47523	0.44149
595694.00	4171743.00	0.20886	0.06221	0.03912	0.17124	0.16312	0.08787	0.17124	0.0861	0.08889
595694.00	4171763.00	0.23413	0.06535	0.041	0.19208	0.1769	0.09586	0.19208	0.09269	0.09962
595694.00	4171783.00	0.26798	0.06952	0.04338	0.22004	0.19663	0.10647	0.22004	0.10205	0.11533
595694.00	4171803.00	0.31343	0.0746	0.04623	0.25765	0.22248	0.12004	0.25765	0.11424	0.13676
595694.00	4171823.00	0.37191	0.08044	0.0495	0.30611	0.25474	0.1369	0.30611	0.1294	0.16501
595694.00	4171843.00	0.4525	0.08761	0.05353	0.37298	0.29843	0.15928	0.37298	0.14983	0.20499
595694.00	4171863.00	0.56058	0.09637	0.05835	0.46269	0.35883	0.18936	0.46269	0.17804	0.26158
595694.00	4171883.00	0.69434	0.10494	0.06335	0.57376	0.42335	0.22328	0.57376	0.20814	0.32965
595694.00	4171903.00	0.85888	0.11359	0.06822	0.7103	0.49515	0.26241	0.7103	0.24173	0.41029
595694.00	4171923.00	1.10608	0.12459	0.07448	0.91534	0.59914	0.3173	0.91534	0.29055	0.53005
595694.00	4171943.00	1.49616	0.13806	0.0823	1.23885	0.74404	0.39355	1.23885	0.3589	0.70171
595714.00	4171763.00	0.23605	0.06601	0.04105	0.1939	0.17833	0.09801	0.1939	0.09346	0.10495
595714.00	4171783.00	0.27928	0.07186	0.04425	0.22973	0.20737	0.11273	0.22973	0.1072	0.12768
595714.00	4171803.00	0.32741	0.07798	0.04731	0.26964	0.23913	0.13178	0.26964	0.1221	0.15252
595714.00	4171823.00	0.38721	0.08425	0.05084	0.31927	0.27513	0.15184	0.31927	0.13897	0.18431
595714.00	4171843.00	0.46348	0.09117	0.05489	0.38263	0.31866	0.17336	0.38263	0.15947	0.22554
595714.00	4171863.00	0.56092	0.09826	0.05953	0.46363	0.36875	0.20073	0.46363	0.18275	0.27861
595714.00	4171883.00	0.69318	0.1078	0.06489	0.57355	0.44194	0.2405	0.57355	0.21693	0.3505
595714.00	4171903.00	0.87061	0.11954	0.07107	0.72097	0.53817	0.30126	0.72097	0.26173	0.44499
595734.00	4171763.00	0.24448	0.06839	0.04184	0.20115	0.18843	0.10454	0.20115	0.09836	0.11518
595734.00	4171783.00	0.2823	0.07302	0.04474	0.23254	0.21185	0.11763	0.23254	0.10938	0.13585
595734.00	4171803.00	0.32916	0.07846	0.04802	0.27146	0.24057	0.13411	0.27146	0.12289	0.16166
595734.00	4171823.00	0.38869	0.08487	0.05177	0.32095	0.27759	0.15513	0.32095	0.14025	0.19525
595734.00	4171843.00	0.46348	0.09203	0.05597	0.38319	0.32266	0.18099	0.38319	0.16131	0.23766
595734.00	4171863.00	0.55878	0.10015	0.06078	0.46252	0.37891	0.21345	0.46252	0.18755	0.29222
595734.00	4171883.00	0.68827	0.10996	0.06675	0.5703	0.4543	0.25676	0.5703	0.22267	0.36628
595734.00	4171903.00	0.85814	0.12086	0.07345	0.71169	0.5472	0.31106	0.71169	0.26596	0.45949
595754.00	4171763.00	0.24646	0.06892	0.04238	0.20305	0.19014	0.10799	0.20305	0.09917	0.12163
595754.00	4171783.00	0.28347	0.07383	0.04524	0.23381	0.21432	0.12244	0.23381	0.1106	0.14237
595754.00	4171803.00	0.32781	0.07931	0.04845	0.27071	0.24338	0.13987	0.27071	0.12428	0.16816
595754.00	4171823.00	0.38986	0.08636	0.05271	0.32239	0.28453	0.164	0.32239	0.14355	0.20515
595754.00	4171843.00	0.46589	0.09412	0.05745	0.38575	0.33402	0.1934	0.38575	0.16665	0.25081
595754.00	4171863.00	0.56114	0.10275	0.06277	0.46513	0.39429	0.22969	0.46513	0.19472	0.30758
595754.00	4171883.00	0.68343	0.11249	0.06886	0.56704	0.46915	0.2753	0.56704	0.22954	0.3789
595754.00	4171903.00	0.85024	0.12468	0.07629	0.70601	0.57042	0.33795	0.70601	0.27668	0.47182
595754.00	4171923.00	1.06669	0.13859	0.0846	0.88636	0.69218	0.42094	0.88636	0.33297	0.58386
595774.00	4171783.00	0.28732	0.07537	0.04623	0.23734	0.22119	0.12974	0.23734	0.11387	0.15115
595774.00	4171863.00	0.5628	0.1054	0.06508	0.46712	0.40919	0.24685	0.46712	0.20161	0.32007
595774.00	4171883.00	0.68085	0.11544	0.07162	0.5656	0.48569	0.29586	0.5656	0.2371	0.38958
595774.00	4171903.00	0.83611	0.12813	0.07938	0.69506	0.58642	0.36314	0.69506	0.28384	0.47659
595774.00	4171923.00	1.0319	0.14171	0.08824	0.85835	0.70379	0.44427	0.85835	0.33785	0.57855
595782.40	4171913.24	0.91895	0.13609	0.08525	0.7645	0.64796	0.41177	0.7645	0.31201	0.52496
595790.49	4171877.76	0.64152	0.11459	0.07181	0.5333	0.4731	0.2962	0.5333	0.2312	0.37445
595794.00	4171863.00	0.56375	0.10823	0.06767	0.46847	0.42396	0.26494	0.46847	0.20838	0.32991
595794.00	4171883.00	0.67242	0.11786	0.07422	0.5592	0.49688	0.31401	0.5592	0.24218	0.39394

X	Y	P1A-HAUL	P1A-IDLE	P1A-OFF	P1B-HAUL	P1B-IDLE	P1B-OFF	P2-HAUL	P2-IDLE	P2-OFF
595794.00	4171903.00	0.81747	0.13105	0.08275	0.68023	0.59733	0.38487	0.68023	0.28854	0.47583
595794.00	4171923.00	0.99117	0.14449	0.09213	0.82518	0.71019	0.46565	0.82518	0.3403	0.56743
595814.00	4171863.00	0.56084	0.11059	0.07039	0.46654	0.43424	0.28097	0.46654	0.21308	0.33531
595814.00	4171883.00	0.6666	0.12127	0.07779	0.55486	0.51149	0.33545	0.55486	0.24869	0.39803
595814.00	4171903.00	0.79442	0.13345	0.08633	0.66159	0.60371	0.40266	0.66159	0.29108	0.47052
595814.00	4171923.00	0.94637	0.14733	0.09618	0.7884	0.71204	0.48512	0.7884	0.34059	0.55241
595826.59	4171700.37	0.172	0.05889	0.03643	0.1419	0.14317	0.08736	0.1419	0.07688	0.09153
595832.66	4171885.33	0.66609	0.12461	0.08172	0.55487	0.52622	0.35666	0.55487	0.25536	0.40321
595832.66	4171905.33	0.78387	0.13692	0.09089	0.65323	0.61664	0.42501	0.65323	0.29672	0.47044
595832.66	4171925.33	0.91903	0.1505	0.10108	0.766	0.72061	0.50589	0.766	0.34402	0.54382
595852.66	4171825.33	0.41176	0.09741	0.06308	0.34265	0.33795	0.22716	0.34265	0.16851	0.25206
595852.66	4171845.33	0.47829	0.10602	0.06931	0.39829	0.39142	0.26617	0.39829	0.19327	0.2943
595852.66	4171865.33	0.55713	0.11581	0.07656	0.46422	0.45515	0.3136	0.46422	0.22266	0.34314
595852.66	4171885.33	0.6492	0.127	0.08505	0.54116	0.53031	0.37116	0.54116	0.25711	0.3985
595852.66	4171905.33	0.75385	0.13987	0.09474	0.62854	0.61736	0.44087	0.62854	0.29675	0.45956
595852.66	4171925.33	0.86956	0.15336	0.10554	0.72509	0.71381	0.51938	0.72509	0.34048	0.52399
595852.66	4171945.33	0.99294	0.16966	0.11805	0.82795	0.82202	0.61588	0.82795	0.38902	0.59208
595857.85	4171568.40	0.09072	0.04069	0.0253	0.07454	0.07907	0.04743	0.07454	0.04547	0.04495
595872.66	4171865.33	0.54697	0.11797	0.07961	0.45604	0.45961	0.32604	0.45604	0.22468	0.3412
595872.66	4171885.33	0.63011	0.12928	0.08846	0.52553	0.53157	0.38345	0.52553	0.2576	0.39183
595872.66	4171905.33	0.72194	0.14235	0.09859	0.60222	0.61331	0.45234	0.60222	0.29474	0.44668
595872.66	4171925.33	0.82113	0.15577	0.10968	0.68497	0.70245	0.52788	0.68497	0.33504	0.50328
595872.66	4171945.33	0.92398	0.17149	0.1226	0.7707	0.80038	0.6175	0.7707	0.37893	0.56169
595892.66	4171865.33	0.53492	0.12005	0.08273	0.44625	0.46195	0.33683	0.44625	0.22575	0.33764
595892.66	4171885.33	0.60942	0.13148	0.09195	0.50852	0.5302	0.39356	0.50852	0.25692	0.38373
595892.66	4171905.33	0.68968	0.14427	0.10241	0.57555	0.60574	0.4593	0.57555	0.29122	0.43249
595892.66	4171925.33	0.77421	0.15814	0.11392	0.64606	0.68769	0.53318	0.64606	0.3282	0.48263
595892.66	4171945.33	0.86144	0.17327	0.12654	0.71872	0.776	0.61585	0.71872	0.36777	0.53322
595912.66	4171905.33	0.65835	0.14581	0.10551	0.54958	0.59563	0.46276	0.54958	0.28664	0.41776
595912.66	4171925.33	0.72972	0.16018	0.11791	0.60912	0.67012	0.53465	0.60912	0.32026	0.46229
595912.66	4171945.33	0.80363	0.17501	0.13052	0.67065	0.7493	0.61129	0.67065	0.35577	0.50634
595932.66	4171945.33	0.75019	0.17658	0.13448	0.62619	0.72099	0.60392	0.62619	0.34324	0.48112
596059.85	4172738.92	0.21186	0.26419	0.40733	0.17704	0.16824	0.20191	0.17704	0.21976	0.23969

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Construction HRA

Construction and Operations
Exposure Scenarios

Cancer Risk Exposure Scenarios

Scenario	Receptor Type	Age Group	Start Date	End Date	ED	Age Bin
Construction + Operation	Offsite Resident	3rd Trimester (Phase 1 construction)	4/6/2020	7/5/2020	0.25	3rd Trimester
Construction + Operation	Offsite Resident	Age 0<2 Years (Phase 1 construction)	7/6/2020	4/5/2021	0.75	Age 0<2 Years
Construction + Operation	Offsite Resident	Age 0<2 Years (Phase 1 operation)	4/6/2021	7/5/2022	1.25	Age 0<2 Years
Construction + Operation	Offsite Resident	Age 2<16 Years (Phase 1 operation)	7/6/2022	1/6/2031	8.5	Age 2<16 Years
Construction + Operation	Offsite Resident	Age 2<16 Years (Phase 2 construction)	1/7/2030	1/6/2031	1	Age 2<16 Years
Construction + Operation	Offsite Resident	Age 2<16 Years (Full operation)	1/7/2031	7/6/2036	5.5	Age 2<16 Years
Construction + Operation	Offsite Resident	Age 16<30 Years (Full operation)	7/7/2036	4/5/2050	13.75	Age 16<30 Years
Operation	Offsite Resident	3rd Trimester	1/7/2031	4/6/2031	0.25	3rd Trimester
Operation	Offsite Resident	Age 0<2 Years	4/7/2031	4/6/2033	2	Age 0<2 Years
Operation	Offsite Resident	Age 2<16 Years	4/7/2033	4/6/2047	14	Age 2<16 Years
Operation	Offsite Resident	Age 16<30 Years	4/7/2047	1/6/2061	13.75	Age 16<30 Years
Construction + Operation	Offsite CSP Users	Age 0<2 Years (Phase 1 construction)	4/6/2020	4/5/2021	1	Age 0<2 Years
Construction + Operation	Offsite CSP Users	Age 0<2 Years (Phase 1 operation)	4/6/2021	4/5/2022	1	Age 0<2 Years
Construction + Operation	Offsite CSP Users	Age 2<16 Years (Phase 1 operation)	4/6/2022	1/6/2031	8.75	Age 2<16 Years
Construction + Operation	Offsite CSP Users	Age 2<16 Years (Phase 2 construction)	1/7/2030	1/6/2031	1	Age 2<16 Years
Construction + Operation	Offsite CSP Users	Age 2<16 Years (Full operation)	1/7/2031	4/6/2036	5.25	Age 2<16 Years
Construction + Operation	Offsite CSP Users	Age 16<30 Years (Full operation)	4/7/2036	4/6/2050	14	Age 16<30 Years
Operation	Offsite CSP Users	Age 0<2 Years	1/7/2031	1/6/2033	2	Age 0<2 Years
Operation	Offsite CSP Users	Age 2<16 Years	1/7/2033	1/6/2047	14	Age 2<16 Years
Operation	Offsite CSP Users	Age 16<30 Years	1/7/2047	1/6/2061	14	Age 16<30 Years
Construction + Operation	Offsite Worker	Age 16<70 Years k (Phase 1 construction)	4/6/2020	4/5/2021	1	Age 16<70 Years
Construction + Operation	Offsite Worker	Age 16<70 Years k (Phase 1 operation)	4/6/2021	1/6/2031	9.75	Age 16<70 Years
Construction + Operation	Offsite Worker	Age 16<70 Years k (Phase 2 construction)	1/7/2030	1/6/2031	1	Age 16<70 Years
Construction + Operation	Offsite Worker	Age 16<70 Years k (Full operation)	1/7/2031	4/5/2045	14.25	Age 16<70 Years
Operation	Offsite Worker	Age 16<70 Years k (Full operation)	1/7/2031	1/6/2056	25	Age 16<70 Years
Construction + Operation	Onsite Daycare	Age 2<9 Years (Phase 1 construciton)	4/6/2020	4/5/2021	1	Age 2<9 Years
Construction + Operation	Onsite Daycare	Age 2<9 Years (Phase 1 operation)	4/6/2021	4/5/2025	4	Age 2<9 Years
Construction + Operation	Onsite Worker	Age 16<70 Years k (Phase 1 construction)	4/6/2020	4/5/2021	1	Age 16<70 Years
Construction + Operation	Onsite Worker	Age 16<70 Years k (Phase 1 operation)	4/6/2021	1/6/2031	9.75	Age 16<70 Years

Intake Factor Summary - For Construction Calculations

AgeBin	Intake Factor [m^3/kg-day per year]	Cancer Risk Factor (DPM) [m^3/ug per year per million]	Receptor Type
3rd Tri	0.0420	46.24	Resident
0<2	0.1269	139.61	Resident
2<16	0.0169	18.62	Resident
16<30	n/a	n/a	Resident
2<9	0.0789	86.79	Onsite daycare
16<70	0.0095	10.40	Worker
0<2	0.1280	140.78	Offsite CSP Users
2<16	0.0168	18.47	Offsite CSP Users

Intake Factor Summary - For Operational Calculations

Receptor Type	AgeBin	Intake Factor [m3/kg-day per year per million]	Cancer Risk Factor (DPM) [m^3/ug per year per million]	Cancer Risk Factor (TOG_Tailpile) [m^3/ug per year per million]	Cancer Risk Factor (TOG-Evaporative) [m^3/ug per year per million]
Resident	3rd Tri	0.0420	46.24	0.26	1.56E-02
Resident	0<2	0.1269	139.61	0.80	4.70E-02
Resident	2<16	0.0169	18.62	0.11	6.27E-03
Resident	16<30	0.0026	2.87	0.02	9.66E-04
Onsite daycare	2<9	0.0302	33.22	0.19	1.12E-02
Worker	16<70	0.0036	3.98	0.02	1.34E-03
Offsite CSP Users	0<2	0.1493	164.25	0.94	5.53E-02
Offsite CSP Users	2<16	0.0235	25.86	0.15	8.70E-03
Offsite CSP Users	16<30	0.0036	3.93	0.02	1.32E-03

Intake Factor Detail for Cancer Risk Calculations

Receptor Type	Exposure Scenario	Receptor Age Group	Exposure Parameters							
			Daily Breathing Rate (DBR) [a] [L/kg-day or L/kg-8hrs]	Exposure Duration (ED) [b] [years]	Fraction of Time at Home (FAH) [c] [unitless]	Exposure Frequency (EF) [d] [days/year]	Averaging Time (AT) [e] [days]	Model Adjustment Factor (MAF) [f] [unitless]	Age Sensitivity Factor (ASF) [g] [unitless]	Intake Factor (IF_{inh}) - NO ED [h] [m^3/kg-day per year]
Off-Site Child Resident	Scenario 1 (construction + operation)	3rd Trimester (Phase 1 construction)	361	0.25	0.85	350	25,550	1	10	0.0420
		Age 0<2 Years (Phase 1 construction)	1090	0.75	0.85				10	0.1269
		Age 0<2 Years (Phase 1 operation)	1090	1.25	0.85				10	0.1269
		Age 2<16 Years (Phase 1 operation)	572	*8.50*	0.72				3	0.0169
		Age 2<16 Years (Phase 2 construction)	572	*1.00*	0.72				3	0.0169
		Age 2<16 Years (Full operation)	572	*5.50*	0.72				3	0.0169
		Age 16<30 Years (Full operation)	261	*13.75*	0.73				1	0.0026
	Scenario 2 (Full operation)	3rd Trimester	361	0.25	0.85	350	25,550	1	10	0.0420
		Age 0<2 Years	1090	2	0.85				10	0.1269
		Age 2<16 Years	572	14	0.72				3	0.0169
		Age 16<30 Years	261	13.75	0.73				1	0.0026
Off-Site CSP Users	Scenario 1 (construction + operation)	Age 0<2 Years (Phase 1 construction)	1090	1	n/a	350	25,550	0.86	10	0.1280
		Age 0<2 Years (Phase 1 operation)	1090	1	n/a			1	10	0.1493
		Age 2<16 Years (Phase 1 operation)	572	8.75	n/a			1	3	0.0235
		Age 2<16 Years (Phase 2 construction)	572	*1.00*	n/a			0.71	3	0.0168
		Age 2<16 Years (Full operation)	572	*5.25*	n/a			1	3	0.0235
		Age 16<30 Years (Full operation)	261	*14.00*	n/a			1	1	0.0036
	Scenario 2 (Full operation)	Age 0<2 Years	1090	2	n/a	350	25,550	1	10	0.1493
		Age 2<16 Years	572	14	n/a			1	3	0.0235
		Age 16<30 Years	261	14	n/a			1	1	0.0036
Off-Site Worker	Scenario 1 (construction + operation)	Age 16<70 Years k (Phase 1 construction)	230	*1.00*	n/a	250	25,550	4.2	1	0.0095
		Age 16<70 Years k (Phase 1 operation)	230	*9.75*				1.6	1	0.0036
		Age 16<70 Years k (Phase 2 construction)	230	*1.00*				4.2	1	0.0095
		Age 16<70 Years k (Full operation)	230	*14.25*				1.6	1	0.0036
	Scenario 2 (Full operation)	Age 16<70 Years k (Full operation)	230	25.00	n/a	250	25,550	1.6	1	0.0036
Onsite Child Daycare	Scenario 1 (construction + operation)	Age 2<9 Years (Phase 1 construciton)	640	*1.00*	n/a	250	25,550	4.2	3	0.0789
		Age 2<9 Years (Phase 1 operation)	640	*4.00*	n/a	250	25,550	1.6	3	0.0302
	Scenario 1	Age 16<70 Years k (Phase 1 construction)	230	*1.00*				4.2	1	0.0095

Receptor Type	Exposure Scenario	Receptor Age Group	Exposure Parameters							
			Daily Breathing Rate (DBR) [a] [L/kg-day or L/kg-8hrs]	Exposure Duration (ED) [b] [years]	Fraction of Time at Home (FAH) [c] [unitless]	Exposure Frequency (EF) [d] [days/year]	Averaging Time (AT) [e] [days]	Model Adjustment Factor (MAF) [f] [unitless]	Age Sensitivity Factor (ASF) [g] [unitless]	Intake Factor (IF_{inh}) - NO ED [h] [m^3/kg-day per year]
Onsite Worker	(construction + operation)	Age 16<70 Years k (Phase 1 operation)	230	9.75	n/a	250	25,550	1.6	1	0.0036

NOTES:

a Daily breathing rates are from OEEHA (2015) based on BAAQMD guidance (2016) as follows: for child residents, 95th percentile 24-hour breathing rates (OEHHA Table 5.6) for 3rd trimester and age 0<2 years and 80th percentile 24-hour breathing rates (OEHHA Table 5.7) for age 2<9 years, age 2<16 years, and age 16<30 years; for onsite child daycare, 95th percentile 8-hour moderate intensity breathing rates (OEHHA Table 5.8) for age 2<9 years; for worker, 95th percentile 8-hour moderate intensity breathing rates (OEHHA Table 5.8) for age16<70 years.

b Cancer risk for residential receptors are calculated based on 30 year exposure, the exposure duration for "Construction + Operation" scenario represents 1 year of Phase 1 construction, 10 years of Phase 1 operation, 1 year of Phase 2 construction with concurrent Phase 1 operation, and another 18 years of full operation after buildout. The EDs are separated into construction and operational exposures to more clearly identify the values used for each receptor group and exposure period. The exposure duration for "Full Operation" scenario represent 30 years of exposure to post-buildout full operational emissions. Cancer risk for offsite worker receptors are based on 25 year exposure. Exisitng businesses are assumed to remain until start of Phase 2 construction, correspondingly, cancer risk calculations for onsite workers are based on 11 years exposure that include 1 year phase 1 construction plus 10 years phase 1 operation, and that for onsite daycare (child 2.5 to 6 years) is based on exposure to 1 year Phase 1 construction plus 4 years of Phase 1 operation.

c There is no offsite schools within the study area (1000 ft from project boundary), so fraction of time at home used values from OEHHA (2015) Table 8.4.
d Exposure frequency represents default residential exposure frequency from BAAQMD guidance (2016). Onsite daycare are assumed to have the same schedule as workers.
e Averaging time represents 70 years for lifetime cancer risk, per OEHHA (2015).
f The Model Adjustment Factor is applied to adjust the annual average concentration from AERMOD associated with construction/operational emissions, to actual the actual construction/operation emission schedule and receptor exposure for daycare and worker receptors. The MAF conservatively assumes that all construction/operational emissions occur while the children or worker are at school/work, so the overlap in emissions and exposure is 100%. The MAF is based on the Worker Adjustment Factor (WAF) described by OEHHA (2015) in Section 5.4.1.2 and Table 5.10. WAF for construction phase assumes 8 hours per day and 5 days per week emissions (WAF equation = [24 hours / 8 hours] * [7 days / 5 days] = 4.2). WAF for operational emissions conservatively uses the Costco gas station's schedule of 15 hours per day and 7 days per week (WAF equation = [24 hours / 15 hours] * [7 days / 7 days] = 1.6).

g Age sensitivity factors from OEHHA (2015) Table 8.3

h IF_{inh} is calculated as follows: DBR * FAH * EF * ED * MAF * ASF * DF * CF / AT, where CF = 0.001 m^3/L. "Intake Factor (IFinh) - NO ED" takes out the ED from the equation so that a risk scaling factor is derived for a per-year scenario.

SOURCES:

1. Office of Environmental Health Hazard Assessment. 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. February. Available: <http://oehha.ca.gov/air/hot_spots/hotspots2015.html>. Accessed: March 2017.
2. Bay Area Air Quality Management District, San Francisco Department of Public Health, and San Francisco Planning Department. 2012. The San Francisco Community Risk Reduction Plan: Technical Support Documentation. December. Available at
3. Bay Area Air Quality Management District. 2016. *Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. January. Available at http://www.baaqmd.gov/~/media/files/planning-and-research/rules-and-regs/workshops/2016/reg-2-5/hra-

ABBREVIATIONS:

kg = kilogram L = liter m^3 = cubic meters ug = microgram

Construction Cancer Risks

Age Bins-Residential	CSTN years	DPM CancerRisk Factor (m3/ug per year per million)			
		Residential	Onsite/Offsite Worker	Onsite Daycare	CSP Child
3rd Tri	0.25	46.24	10.40	86.79	140.78
0 < 2	0.75	139.61			18.47
2 < 16	1.00	18.62			
16<30	0.00	n/a			

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
594854.00	4172863.00	2.48E-03	4.13E-04	5.80E-04	0.03	0.04	0.01	0.08	0.02	0.01	0.08	0.14	Offsite Worker
594854.00	4172883.00	2.34E-03	4.02E-04	5.07E-04	0.03	0.04	0.01	0.08	0.01	0.01	0.08	0.13	Offsite Worker
594854.00	4172903.00	2.21E-03	3.90E-04	4.38E-04	0.03	0.04	0.01	0.07	0.01	0.01	0.07	0.13	Offsite Worker
594854.00	4172923.00	2.10E-03	3.79E-04	3.74E-04	0.02	0.04	0.01	0.07	0.01	0.01	0.07	0.12	Offsite Worker
594874.00	4172823.00	2.94E-03	4.59E-04	7.95E-04	0.03	0.05	0.01	0.10	0.02	0.01	0.09	0.17	Offsite Worker
594874.00	4172843.00	2.75E-03	4.44E-04	7.24E-04	0.03	0.05	0.01	0.09	0.02	0.01	0.09	0.16	Offsite Worker
594874.00	4172863.00	2.58E-03	4.28E-04	6.46E-04	0.03	0.04	0.01	0.09	0.02	0.01	0.08	0.15	Offsite Worker
594874.00	4172883.00	2.43E-03	4.17E-04	5.62E-04	0.03	0.04	0.01	0.08	0.02	0.01	0.08	0.14	Offsite Worker
594874.00	4172903.00	2.29E-03	4.05E-04	4.83E-04	0.03	0.04	0.01	0.08	0.01	0.01	0.08	0.13	Offsite Worker
594874.00	4172923.00	2.18E-03	3.93E-04	4.10E-04	0.03	0.04	0.01	0.07	0.01	0.01	0.07	0.13	Offsite Worker
594894.00	4172803.00	3.32E-03	4.97E-04	9.57E-04	0.04	0.05	0.02	0.11	0.02	0.01	0.10	0.19	Offsite Worker
594894.00	4172823.00	3.07E-03	4.80E-04	8.88E-04	0.04	0.05	0.02	0.10	0.02	0.01	0.10	0.18	Offsite Worker
594894.00	4172843.00	2.85E-03	4.63E-04	8.07E-04	0.03	0.05	0.02	0.10	0.02	0.01	0.09	0.16	Offsite Worker
594894.00	4172863.00	2.67E-03	4.48E-04	7.20E-04	0.03	0.05	0.01	0.09	0.02	0.01	0.09	0.15	Offsite Worker
594894.00	4172883.00	2.52E-03	4.33E-04	6.26E-04	0.03	0.05	0.01	0.09	0.02	0.01	0.08	0.15	Offsite Worker
594894.00	4172903.00	2.38E-03	4.19E-04	5.35E-04	0.03	0.04	0.01	0.08	0.02	0.01	0.08	0.14	Offsite Worker
594894.00	4172923.00	2.26E-03	4.06E-04	4.51E-04	0.03	0.04	0.01	0.08	0.01	0.01	0.08	0.13	Offsite Worker
594914.00	4172803.00	3.47E-03	5.21E-04	1.06E-03	0.04	0.05	0.02	0.11	0.02	0.01	0.11	0.20	Offsite Worker
594914.00	4172823.00	3.20E-03	5.00E-04	9.95E-04	0.04	0.05	0.02	0.11	0.02	0.01	0.10	0.18	Offsite Worker
594914.00	4172843.00	2.98E-03	4.84E-04	9.10E-04	0.03	0.05	0.02	0.10	0.02	0.01	0.10	0.17	Offsite Worker
594914.00	4172863.00	2.78E-03	4.66E-04	8.10E-04	0.03	0.05	0.02	0.10	0.02	0.01	0.09	0.16	Offsite Worker
594914.00	4172883.00	2.62E-03	4.49E-04	7.05E-04	0.03	0.05	0.01	0.09	0.02	0.01	0.09	0.15	Offsite Worker
594914.00	4172903.00	2.47E-03	4.34E-04	5.99E-04	0.03	0.05	0.01	0.09	0.02	0.01	0.08	0.14	Offsite Worker
594914.00	4172923.00	2.35E-03	4.21E-04	5.01E-04	0.03	0.04	0.01	0.08	0.01	0.01	0.08	0.14	Offsite Worker
594934.00	4172783.00	4.00E-03	5.75E-04	1.24E-03	0.05	0.06	0.02	0.13	0.03	0.01	0.12	0.22	Offsite Worker
594934.00	4172803.00	3.64E-03	5.47E-04	1.19E-03	0.04	0.06	0.02	0.12	0.03	0.01	0.11	0.21	Offsite Worker
594934.00	4172823.00	3.35E-03	5.24E-04	1.12E-03	0.04	0.05	0.02	0.11	0.02	0.01	0.11	0.19	Offsite Worker
594934.00	4172843.00	3.11E-03	5.04E-04	1.03E-03	0.04	0.05	0.02	0.11	0.02	0.01	0.10	0.18	Offsite Worker
594934.00	4172863.00	2.90E-03	4.86E-04	9.23E-04	0.03	0.05	0.02	0.10	0.02	0.01	0.09	0.17	Offsite Worker
594954.00	4172783.00	4.18E-03	6.03E-04	1.37E-03	0.05	0.06	0.03	0.14	0.03	0.02	0.13	0.24	Offsite Worker
594954.00	4172803.00	3.81E-03	5.74E-04	1.33E-03	0.04	0.06	0.02	0.13	0.03	0.01	0.12	0.22	Offsite Worker
594954.00	4172823.00	3.50E-03	5.48E-04	1.27E-03	0.04	0.06	0.02	0.12	0.03	0.01	0.11	0.20	Offsite Worker
594954.00	4172843.00	3.24E-03	5.26E-04	1.17E-03	0.04	0.06	0.02	0.11	0.02	0.01	0.10	0.19	Offsite Worker
594974.00	4172783.00	4.40E-03	6.34E-04	1.52E-03	0.05	0.07	0.03	0.15	0.03	0.02	0.14	0.25	Offsite Worker
594974.00	4172803.00	4.00E-03	6.02E-04	1.49E-03	0.05	0.06	0.03	0.14	0.03	0.02	0.13	0.23	Offsite Worker
595014.00	4172563.00	2.41E-02	2.06E-03	1.45E-03	0.28	0.22	0.03	0.52	0.09	0.08	0.66	1.09	Offsite Worker
595014.00	4172583.00	2.13E-02	1.86E-03	1.56E-03	0.25	0.19	0.03	0.47	0.09	0.07	0.58	0.97	Offsite Worker
595022.43	4172341.44	3.78E-02	3.77E-03	8.39E-04	0.44	0.39	0.02	0.85	0.14	0.13	1.06	1.74	Offsite Residential
595034.00	4172503.00	3.54E-02	2.89E-03	1.12E-03	0.41	0.30	0.02	0.73	0.13	0.11	0.96	1.57	Offsite Worker
595034.00	4172523.00	3.29E-02	2.69E-03	1.25E-03	0.38	0.28	0.02	0.69	0.12	0.11	0.89	1.46	Offsite Worker
595034.00	4172543.00	3.00E-02	2.48E-03	1.40E-03	0.35	0.26	0.03	0.63	0.11	0.10	0.81	1.34	Offsite Worker
595034.00	4172563.00	2.69E-02	2.27E-03	1.54E-03	0.31	0.24	0.03	0.58	0.10	0.09	0.73	1.21	Offsite Worker
595034.00	4172583.00	2.37E-02	2.05E-03	1.67E-03	0.27	0.21	0.03	0.52	0.09	0.08	0.65	1.08	Offsite Worker
595034.00	4172603.00	2.07E-02	1.84E-03	1.78E-03	0.24	0.19	0.03	0.46	0.09	0.07	0.57	0.95	Offsite Worker
595042.43	4172281.44	3.56E-02	4.73E-03	1.16E-03	0.41	0.49	0.02	0.93	0.14	0.13	1.08	1.77	Offsite Residential
595042.43	4172301.44	3.73E-02	4.41E-03	1.06E-03	0.43	0.46	0.02	0.91	0.14	0.13	1.10	1.80	Offsite Residential
595042.43	4172321.44	3.89E-02	4.18E-03	9.63E-04	0.45	0.44	0.02	0.91	0.14	0.13	1.12	1.83	Offsite Residential
595042.43	4172341.44	4.03E-02	4.01E-03	8.82E-04	0.47	0.42	0.02	0.90	0.15	0.14	1.14	1.86	Offsite Residential
595054.00	4172463.00	4.31E-02	3.50E-03	9.00E-04	0.50	0.37	0.02	0.88	0.15	0.14	1.16	1.90	Offsite Worker
595054.00	4172483.00	4.11E-02	3.29E-03	9.81E-04	0.48	0.34	0.02	0.84	0.14	0.13	1.11	1.81	Offsite Worker
595054.00	4172503.00	3.93E-02	3.17E-03	1.13E-03	0.45	0.33	0.02	0.81	0.14	0.13	1.06	1.74	Offsite Worker
595054.00	4172523.00	3.68E-02	2.98E-03	1.29E-03	0.43	0.31	0.02	0.76	0.13	0.12	0.99	1.63	Offsite Worker
595054.00	4172543.00	3.37E-02	2.76E-03	1.46E-03	0.39	0.29	0.03	0.71	0.12	0.11	0.91	1.50	Offsite Worker
595054.00	4172563.00	3.02E-02	2.52E-03	1.63E-03	0.35	0.26	0.03	0.64	0.12	0.10	0.82	1.36	Offsite Worker
595054.00	4172583.00	2.66E-02	2.27E-03	1.79E-03	0.31	0.24	0.03	0.58	0.11	0.09	0.73	1.21	Offsite Worker
595054.00	4172603.00	2.31E-02	2.03E-03	1.93E-03	0.27	0.21	0.04	0.52	0.10	0.08	0.63	1.06	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595062.43	4172201.44	3.00E-02	7.30E-03	1.62E-03	0.35	0.76	0.03	1.14	0.15	0.13	1.13	1.86	Offsite Residential
595062.43	4172221.44	3.15E-02	6.61E-03	1.55E-03	0.36	0.69	0.03	1.09	0.15	0.13	1.11	1.84	Offsite Residential
595062.43	4172241.44	3.33E-02	5.99E-03	1.47E-03	0.38	0.63	0.03	1.04	0.15	0.13	1.11	1.83	Offsite Residential
595062.43	4172261.44	3.52E-02	5.46E-03	1.37E-03	0.41	0.57	0.03	1.00	0.15	0.13	1.12	1.84	Offsite Residential
595062.43	4172281.44	3.73E-02	5.02E-03	1.26E-03	0.43	0.53	0.02	0.98	0.15	0.14	1.14	1.86	Offsite Residential
595062.43	4172301.44	3.93E-02	4.68E-03	1.14E-03	0.45	0.49	0.02	0.97	0.15	0.14	1.16	1.90	Offsite Residential
595062.43	4172321.44	4.12E-02	4.44E-03	1.03E-03	0.48	0.46	0.02	0.96	0.15	0.14	1.18	1.94	Offsite Residential
595062.43	4172341.44	4.30E-02	4.26E-03	9.32E-04	0.50	0.45	0.02	0.96	0.15	0.14	1.21	1.98	Offsite Residential
595074.00	4172423.00	4.87E-02	4.04E-03	7.86E-04	0.56	0.42	0.01	1.00	0.17	0.16	1.32	2.16	Offsite Worker
595074.00	4172443.00	4.84E-02	3.95E-03	8.23E-04	0.56	0.41	0.02	0.99	0.17	0.16	1.31	2.14	Offsite Worker
595074.00	4172463.00	4.76E-02	3.84E-03	8.95E-04	0.55	0.40	0.02	0.97	0.16	0.15	1.28	2.10	Offsite Worker
595074.00	4172483.00	4.62E-02	3.70E-03	1.00E-03	0.53	0.39	0.02	0.94	0.16	0.15	1.24	2.03	Offsite Worker
595074.00	4172503.00	4.40E-02	3.52E-03	1.14E-03	0.51	0.37	0.02	0.90	0.15	0.14	1.18	1.94	Offsite Worker
595074.00	4172523.00	4.14E-02	3.32E-03	1.32E-03	0.48	0.35	0.02	0.85	0.15	0.13	1.11	1.83	Offsite Worker
595074.00	4172543.00	3.80E-02	3.08E-03	1.52E-03	0.44	0.32	0.03	0.79	0.14	0.12	1.03	1.69	Offsite Worker
595074.00	4172563.00	3.41E-02	2.81E-03	1.73E-03	0.39	0.29	0.03	0.72	0.13	0.11	0.92	1.53	Offsite Worker
595074.00	4172583.00	3.01E-02	2.53E-03	1.93E-03	0.35	0.27	0.04	0.65	0.12	0.10	0.82	1.36	Offsite Worker
595074.00	4172603.00	2.60E-02	2.26E-03	2.11E-03	0.30	0.24	0.04	0.58	0.11	0.09	0.71	1.19	Offsite Worker
595082.43	4172141.44	2.73E-02	1.01E-02	1.81E-03	0.32	1.06	0.03	1.41	0.17	0.15	1.25	2.06	Offsite Residential
595082.43	4172161.44	2.84E-02	9.48E-03	1.81E-03	0.33	0.99	0.03	1.35	0.17	0.15	1.23	2.03	Offsite Residential
595082.43	4172181.44	2.96E-02	8.74E-03	1.80E-03	0.34	0.91	0.03	1.29	0.16	0.15	1.21	2.00	Offsite Residential
595082.43	4172201.44	3.09E-02	7.94E-03	1.76E-03	0.36	0.83	0.03	1.22	0.16	0.14	1.19	1.96	Offsite Residential
595082.43	4172221.44	3.25E-02	7.15E-03	1.70E-03	0.38	0.75	0.03	1.16	0.16	0.14	1.17	1.93	Offsite Residential
595082.43	4172241.44	3.45E-02	6.44E-03	1.62E-03	0.40	0.67	0.03	1.10	0.16	0.14	1.17	1.92	Offsite Residential
595082.43	4172261.44	3.67E-02	5.84E-03	1.51E-03	0.42	0.61	0.03	1.06	0.16	0.14	1.18	1.94	Offsite Residential
595082.43	4172281.44	3.90E-02	5.35E-03	1.38E-03	0.45	0.56	0.03	1.04	0.16	0.14	1.19	1.96	Offsite Residential
595082.43	4172301.44	4.13E-02	4.97E-03	1.24E-03	0.48	0.52	0.02	1.02	0.16	0.15	1.22	2.00	Offsite Residential
595082.43	4172321.44	4.32E-02	4.47E-03	1.10E-03	0.50	0.47	0.02	0.99	0.16	0.15	1.23	2.01	Offsite Residential
595082.43	4172341.44	4.58E-02	4.53E-03	9.91E-04	0.53	0.47	0.02	1.02	0.16	0.15	1.29	2.11	Offsite Residential
595094.00	4172423.00	5.33E-02	4.39E-03	7.89E-04	0.62	0.46	0.01	1.09	0.18	0.17	1.44	2.35	Offsite Worker
595094.00	4172443.00	5.33E-02	4.31E-03	8.19E-04	0.62	0.45	0.02	1.08	0.18	0.17	1.44	2.35	Offsite Worker
595094.00	4172463.00	5.28E-02	4.21E-03	8.87E-04	0.61	0.44	0.02	1.07	0.18	0.17	1.42	2.32	Offsite Worker
595094.00	4172483.00	5.15E-02	4.09E-03	9.96E-04	0.60	0.43	0.02	1.04	0.18	0.17	1.38	2.26	Offsite Worker
595094.00	4172503.00	4.95E-02	3.92E-03	1.15E-03	0.57	0.41	0.02	1.00	0.17	0.16	1.33	2.18	Offsite Worker
595094.00	4172523.00	4.67E-02	3.71E-03	1.34E-03	0.54	0.39	0.02	0.95	0.16	0.15	1.26	2.06	Offsite Worker
595094.00	4172543.00	4.33E-02	3.47E-03	1.58E-03	0.50	0.36	0.03	0.89	0.16	0.14	1.16	1.92	Offsite Worker
595094.00	4172563.00	3.90E-02	3.17E-03	1.83E-03	0.45	0.33	0.03	0.82	0.15	0.13	1.05	1.74	Offsite Worker
595102.43	4172101.44	2.63E-02	1.19E-02	1.89E-03	0.30	1.25	0.04	1.58	0.18	0.16	1.34	2.22	Offsite Residential
595102.43	4172121.44	2.74E-02	1.16E-02	1.91E-03	0.32	1.22	0.04	1.57	0.18	0.16	1.35	2.23	Offsite Residential
595102.43	4172141.44	2.84E-02	1.11E-02	1.93E-03	0.33	1.16	0.04	1.53	0.18	0.16	1.34	2.21	Offsite Residential
595102.43	4172161.44	2.95E-02	1.05E-02	1.95E-03	0.34	1.09	0.04	1.47	0.18	0.16	1.32	2.18	Offsite Residential
595102.43	4172181.44	3.06E-02	9.60E-03	1.95E-03	0.35	1.01	0.04	1.40	0.17	0.15	1.29	2.13	Offsite Residential
595102.43	4172201.44	3.19E-02	8.69E-03	1.93E-03	0.37	0.91	0.04	1.31	0.17	0.15	1.26	2.08	Offsite Residential
595102.43	4172221.44	3.36E-02	7.78E-03	1.88E-03	0.39	0.81	0.04	1.24	0.17	0.15	1.24	2.04	Offsite Residential
595102.43	4172241.44	3.56E-02	6.94E-03	1.79E-03	0.41	0.73	0.03	1.17	0.17	0.15	1.22	2.02	Offsite Residential
595102.43	4172261.44	3.79E-02	6.23E-03	1.67E-03	0.44	0.65	0.03	1.12	0.16	0.15	1.23	2.02	Offsite Residential
595102.43	4172281.44	4.05E-02	5.66E-03	1.52E-03	0.47	0.59	0.03	1.09	0.17	0.15	1.25	2.05	Offsite Residential
595102.43	4172301.44	4.34E-02	5.26E-03	1.36E-03	0.50	0.55	0.03	1.08	0.17	0.15	1.28	2.11	Offsite Residential
595102.43	4172321.44	4.61E-02	4.98E-03	1.20E-03	0.53	0.52	0.02	1.08	0.17	0.16	1.33	2.17	Offsite Residential
595102.43	4172341.44	4.88E-02	4.82E-03	1.06E-03	0.56	0.50	0.02	1.09	0.18	0.16	1.37	2.25	Offsite Residential
595114.00	4172443.00	5.88E-02	4.72E-03	8.15E-04	0.68	0.49	0.02	1.19	0.20	0.19	1.58	2.58	Offsite Worker
595114.00	4172463.00	5.86E-02	4.64E-03	8.77E-04	0.68	0.49	0.02	1.18	0.20	0.19	1.57	2.57	Offsite Worker
595114.00	4172483.00	5.77E-02	4.54E-03	9.84E-04	0.67	0.48	0.02	1.16	0.20	0.19	1.55	2.53	Offsite Worker
595114.00	4172503.00	5.60E-02	4.40E-03	1.14E-03	0.65	0.46	0.02	1.13	0.19	0.18	1.50	2.46	Offsite Worker
595122.43	4172101.44	2.75E-02	1.30E-02	2.00E-03	0.32	1.36	0.04	1.72	0.19	0.17	1.44	2.38	Offsite Residential
595122.43	4172121.44	2.86E-02	1.28E-02	2.02E-03	0.33	1.34	0.04	1.71	0.20	0.17	1.45	2.39	Offsite Residential
595122.43	4172141.44	2.96E-02	1.23E-02	2.06E-03	0.34	1.29	0.04	1.67	0.19	0.17	1.44	2.38	Offsite Residential
595122.43	4172161.44	3.06E-02	1.16E-02	2.09E-03	0.35	1.21	0.04	1.60	0.19	0.17	1.42	2.34	Offsite Residential
595122.43	4172181.44	3.16E-02	1.06E-02	2.12E-03	0.37	1.11	0.04	1.52	0.19	0.17	1.38	2.27	Offsite Residential
595122.43	4172201.44	3.29E-02	9.56E-03	2.12E-03	0.38	1.00	0.04	1.42	0.18	0.16	1.34	2.21	Offsite Residential
595122.43	4172221.44	3.46E-02	8.49E-03	2.08E-03	0.40	0.89	0.04	1.33	0.18	0.16	1.30	2.15	Offsite Residential
595122.43	4172241.44	3.67E-02	7.51E-03	2.00E-03	0.42	0.79	0.04	1.25	0.17	0.15	1.28	2.12	Offsite Residential
595122.43	4172261.44	3.93E-02	6.68E-03	1.87E-03	0.45	0.70	0.03	1.19	0.17	0.15	1.29	2.12	Offsite Residential
595122.43	4172281.44	4.24E-02	6.07E-03	1.71E-03	0.49	0.64	0.03	1.16	0.18	0.16	1.32	2.17	Offsite Residential

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595122.43	4172301.44	4.57E-02	5.60E-03	1.52E-03	0.53	0.59	0.03	1.14	0.18	0.16	1.36	2.23	Offsite Residential
595122.43	4172321.44	4.89E-02	5.30E-03	1.33E-03	0.57	0.56	0.02	1.15	0.18	0.17	1.41	2.31	Offsite Residential
595122.43	4172341.44	5.21E-02	5.13E-03	1.15E-03	0.60	0.54	0.02	1.16	0.19	0.18	1.46	2.40	Offsite Residential
595134.00	4172443.00	6.50E-02	5.19E-03	8.14E-04	0.75	0.54	0.02	1.31	0.22	0.21	1.75	2.85	Offsite Worker
595142.43	4172101.44	2.88E-02	1.43E-02	2.12E-03	0.33	1.49	0.04	1.87	0.21	0.19	1.55	2.56	Offsite Residential
595142.43	4172121.44	3.00E-02	1.42E-02	2.15E-03	0.35	1.48	0.04	1.8703	0.21	0.1885	1.57	2.59	Offsite Residential
595142.43	4172141.44	3.10E-02	1.37E-02	2.20E-03	0.36	1.43	0.04	1.83	0.21	0.19	1.57	2.58	Offsite Residential
595142.43	4172161.44	3.20E-02	1.29E-02	2.25E-03	0.37	1.35	0.04	1.76	0.21	0.18	1.53	2.53	Offsite Residential
595142.43	4172181.44	3.29E-02	1.18E-02	2.30E-03	0.38	1.24	0.04	1.66	0.20	0.18	1.48	2.45	Offsite Residential
595142.43	4172201.44	3.40E-02	1.06E-02	2.32E-03	0.39	1.11	0.04	1.55	0.20	0.17	1.43	2.36	Offsite Residential
595142.43	4172221.44	3.56E-02	9.33E-03	2.30E-03	0.41	0.98	0.04	1.43	0.19	0.17	1.38	2.28	Offsite Residential
595142.43	4172241.44	3.78E-02	8.19E-03	2.24E-03	0.44	0.86	0.04	1.34	0.19	0.16	1.35	2.24	Offsite Residential
595142.43	4172261.44	4.07E-02	7.22E-03	2.11E-03	0.47	0.76	0.04	1.27	0.18	0.16	1.35	2.23	Offsite Residential
595142.43	4172281.44	4.41E-02	6.48E-03	1.93E-03	0.51	0.68	0.04	1.23	0.19	0.17	1.38	2.27	Offsite Residential
595142.43	4172301.44	4.80E-02	5.97E-03	1.71E-03	0.55	0.63	0.03	1.21	0.19	0.17	1.43	2.35	Offsite Residential
595142.43	4172321.44	5.20E-02	5.66E-03	1.48E-03	0.60	0.59	0.03	1.22	0.19	0.18	1.50	2.46	Offsite Residential
595142.43	4172341.44	5.59E-02	5.50E-03	1.26E-03	0.65	0.58	0.02	1.25	0.20	0.19	1.57	2.57	Offsite Residential
595146.24	4171970.65	1.70E-02	9.29E-03	1.88E-03	0.20	0.97	0.04	1.20	0.14	0.12	0.97	1.62	Offsite Residential
595146.24	4171990.65	1.89E-02	1.03E-02	1.96E-03	0.22	1.08	0.04	1.33	0.15	0.13	1.08	1.79	Offsite Residential
595158.78	4172948.61	4.17E-03	6.39E-04	4.66E-03	0.05	0.07	0.09	0.20	0.06	0.02	0.13	0.30	Plant Boundary
595162.43	4172201.44	3.53E-02	1.18E-02	2.55E-03	0.41	1.24	0.05	1.70	0.21	0.18	1.54	2.54	Offsite Residential
595162.43	4172221.44	3.67E-02	1.03E-02	2.57E-03	0.42	1.08	0.05	1.55	0.20	0.18	1.47	2.43	Offsite Residential
595162.43	4172241.44	3.89E-02	8.98E-03	2.53E-03	0.45	0.94	0.05	1.44	0.20	0.17	1.43	2.36	Offsite Residential
595162.43	4172281.44	4.58E-02	6.93E-03	2.20E-03	0.53	0.73	0.04	1.30	0.20	0.17	1.44	2.38	Offsite Residential
595162.43	4172301.44	5.03E-02	6.37E-03	1.94E-03	0.58	0.67	0.04	1.28	0.20	0.18	1.51	2.48	Offsite Residential
595162.43	4172321.44	5.51E-02	6.04E-03	1.67E-03	0.64	0.63	0.03	1.30	0.21	0.19	1.59	2.61	Offsite Residential
595162.43	4172341.44	5.99E-02	5.89E-03	1.40E-03	0.69	0.62	0.03	1.34	0.22	0.20	1.68	2.76	Offsite Residential
595166.24	4171930.65	1.36E-02	7.37E-03	1.73E-03	0.16	0.77	0.03	0.96	0.11	0.09	0.78	1.29	Offsite Residential
595166.24	4171950.65	1.53E-02	8.37E-03	1.87E-03	0.18	0.88	0.03	1.09	0.12	0.10	0.88	1.46	Offsite Residential
595166.24	4171970.65	1.71E-02	9.43E-03	1.99E-03	0.20	0.99	0.04	1.22	0.14	0.12	0.98	1.63	Offsite Residential
595166.24	4171990.65	1.91E-02	1.06E-02	2.09E-03	0.22	1.11	0.04	1.37	0.15	0.13	1.10	1.83	Offsite Residential
595186.24	4171890.65	1.06E-02	5.58E-03	1.47E-03	0.12	0.58	0.03	0.73	0.09	0.07	0.59	0.99	Offsite Residential
595186.24	4171910.65	1.19E-02	6.39E-03	1.63E-03	0.14	0.67	0.03	0.84	0.10	0.08	0.67	1.12	Offsite Residential
595186.24	4171930.65	1.34E-02	7.31E-03	1.80E-03	0.16	0.77	0.03	0.95	0.11	0.09	0.77	1.28	Offsite Residential
595186.24	4171950.65	1.51E-02	8.36E-03	1.96E-03	0.18	0.88	0.04	1.09	0.13	0.10	0.87	1.45	Offsite Residential
595186.24	4171970.65	1.71E-02	9.53E-03	2.11E-03	0.20	1.00	0.04	1.23	0.14	0.12	0.99	1.65	Offsite Residential
595186.24	4171990.65	1.92E-02	1.08E-02	2.23E-03	0.22	1.13	0.04	1.40	0.16	0.13	1.12	1.86	Offsite Residential
595203.12	4172931.43	5.27E-03	7.56E-04	1.90E-02	0.06	0.08	0.35	0.49	0.22	0.02	0.16	0.62	Onsite Daycare
595206.24	4171870.65	9.15E-03	4.73E-03	1.32E-03	0.11	0.50	0.02	0.63	0.07	0.06	0.51	0.85	Offsite Residential
595206.24	4171890.65	1.03E-02	5.44E-03	1.49E-03	0.12	0.57	0.03	0.72	0.08	0.07	0.58	0.96	Offsite Residential
595206.24	4171910.65	1.16E-02	6.25E-03	1.68E-03	0.13	0.65	0.03	0.82	0.10	0.08	0.66	1.10	Offsite Residential
595206.24	4171930.65	1.32E-02	7.22E-03	1.87E-03	0.15	0.76	0.03	0.94	0.11	0.09	0.76	1.26	Offsite Residential
595206.24	4171950.65	1.50E-02	8.32E-03	2.06E-03	0.17	0.87	0.04	1.08	0.13	0.10	0.87	1.44	Offsite Residential
595206.24	4171970.65	1.70E-02	9.57E-03	2.24E-03	0.20	1.00	0.04	1.24	0.14	0.12	0.99	1.65	Offsite Residential
595206.24	4171990.65	1.93E-02	1.10E-02	2.39E-03	0.22	1.15	0.04	1.42	0.16	0.14	1.13	1.88	Offsite Residential
595207.62	4172857.58	6.93E-03	9.34E-04	1.47E-02	0.08	0.10	0.27	0.45	0.18	0.03	0.21	0.62	Onsite Worker
595216.89	4172907.31	6.03E-03	8.36E-04	2.33E-02	0.07	0.09	0.43	0.59	0.26	0.02	0.19	0.73	Plant Boundary
595226.24	4171850.65	7.88E-03	3.97E-03	1.15E-03	0.09	0.42	0.02	0.53	0.06	0.05	0.43	0.72	Offsite Residential
595226.24	4171870.65	8.87E-03	4.57E-03	1.32E-03	0.10	0.48	0.02	0.61	0.07	0.06	0.49	0.82	Offsite Residential
595226.24	4171890.65	1.00E-02	5.27E-03	1.51E-03	0.12	0.55	0.03	0.70	0.08	0.07	0.56	0.94	Offsite Residential
595226.24	4171910.65	1.13E-02	6.09E-03	1.71E-03	0.13	0.64	0.03	0.80	0.09	0.08	0.64	1.07	Offsite Residential
595226.24	4171930.65	1.29E-02	7.07E-03	1.94E-03	0.15	0.74	0.04	0.93	0.11	0.09	0.74	1.24	Offsite Residential
595226.24	4171950.65	1.47E-02	8.20E-03	2.16E-03	0.17	0.86	0.04	1.07	0.12	0.10	0.85	1.42	Offsite Residential
595226.24	4171970.65	1.68E-02	9.53E-03	2.38E-03	0.19	1.00	0.04	1.24	0.14	0.12	0.99	1.64	Offsite Residential
595229.35	4172793.73	1.11E-02	1.33E-03	1.51E-02	0.13	0.14	0.28	0.55	0.20	0.04	0.33	0.81	Onsite Worker
595229.53	4172979.48	5.01E-03	7.25E-04	1.00E-02	0.06	0.08	0.19	0.32	0.12	0.02	0.16	0.44	Plant Boundary
595234.00	4172863.00	7.82E-03	1.01E-03	2.18E-02	0.09	0.11	0.41	0.60	0.25	0.03	0.24	0.78	Offsite Worker
595234.00	4172883.00	7.21E-03	9.53E-04	2.07E-02	0.08	0.10	0.39	0.57	0.24	0.03	0.22	0.74	Offsite Worker
595234.00	4172903.00	6.67E-03	8.99E-04	2.06E-02	0.08	0.09	0.38	0.56	0.24	0.02	0.20	0.71	Offsite Worker
595246.24	4171830.65	6.83E-03	3.34E-03	9.79E-04	0.08	0.35	0.02	0.45	0.05	0.04	0.37	0.61	Offsite Residential
595246.24	4171850.65	7.64E-03	3.82E-03	1.13E-03	0.09	0.40	0.02	0.51	0.06	0.05	0.41	0.69	Offsite Residential
595246.24	4171870.65	8.58E-03	4.39E-03	1.31E-03	0.10	0.46	0.02	0.58	0.07	0.06	0.47	0.79	Offsite Residential
595246.24	4171890.65	9.69E-03	5.08E-03	1.51E-03	0.11	0.53	0.03	0.67	0.08	0.06	0.54	0.91	Offsite Residential
595246.24	4171910.65	1.10E-02	5.90E-03	1.75E-03	0.13	0.62	0.03	0.78	0.09	0.07	0.62	1.04	Offsite Residential

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595246.24	4171930.65	1.26E-02	6.90E-03	2.00E-03	0.15	0.72	0.04	0.90	0.11	0.09	0.72	1.21	Offsite Residential
595246.24	4171950.65	1.44E-02	8.06E-03	2.26E-03	0.17	0.84	0.04	1.05	0.12	0.10	0.84	1.40	Offsite Residential
595246.24	4171970.65	1.66E-02	9.46E-03	2.53E-03	0.19	0.99	0.05	1.23	0.14	0.12	0.98	1.63	Offsite Residential
595251.41	4172717.21	3.23E-02	2.95E-03	1.59E-02	0.37	0.31	0.30	0.98	0.27	0.11	0.89	1.74	Onsite Worker
595254.00	4172823.00	1.08E-02	1.29E-03	2.21E-02	0.13	0.14	0.41	0.67	0.27	0.04	0.32	0.93	Offsite Worker
595254.00	4172843.00	9.74E-03	1.19E-03	2.02E-02	0.11	0.12	0.38	0.61	0.25	0.03	0.29	0.84	Offsite Worker
595254.00	4172863.00	8.83E-03	1.11E-03	1.80E-02	0.10	0.12	0.34	0.55	0.22	0.03	0.26	0.76	Offsite Worker
595254.00	4172883.00	8.09E-03	1.03E-03	1.65E-02	0.09	0.11	0.31	0.51	0.20	0.03	0.24	0.70	Offsite Worker
595254.00	4172903.00	7.45E-03	9.73E-04	1.71E-02	0.09	0.10	0.32	0.51	0.21	0.03	0.23	0.68	Offsite Worker
595254.00	4172923.00	6.90E-03	9.18E-04	2.27E-02	0.08	0.10	0.42	0.60	0.26	0.03	0.21	0.76	Offsite Worker
595259.54	4172956.67	6.27E-03	8.55E-04	2.12E-02	0.07	0.09	0.40	0.56	0.24	0.02	0.19	0.70	Plant Boundary
595266.24	4171810.65	5.94E-03	2.82E-03	8.24E-04	0.07	0.29	0.02	0.38	0.05	0.04	0.31	0.52	Offsite Residential
595266.24	4171830.65	6.58E-03	3.19E-03	9.53E-04	0.08	0.33	0.02	0.43	0.05	0.04	0.35	0.59	Offsite Residential
595266.24	4171850.65	7.36E-03	3.66E-03	1.11E-03	0.09	0.38	0.02	0.49	0.06	0.05	0.40	0.67	Offsite Residential
595266.24	4171870.65	8.26E-03	4.20E-03	1.30E-03	0.10	0.44	0.02	0.56	0.07	0.05	0.45	0.76	Offsite Residential
595266.24	4171890.65	9.34E-03	4.87E-03	1.51E-03	0.11	0.51	0.03	0.65	0.08	0.06	0.52	0.87	Offsite Residential
595266.24	4171910.65	1.07E-02	5.69E-03	1.77E-03	0.12	0.60	0.03	0.75	0.09	0.07	0.60	1.01	Offsite Residential
595266.24	4171930.65	1.22E-02	6.67E-03	2.05E-03	0.14	0.70	0.04	0.88	0.10	0.08	0.70	1.17	Offsite Residential
595266.24	4171950.65	1.41E-02	7.86E-03	2.35E-03	0.16	0.82	0.04	1.03	0.12	0.10	0.82	1.37	Offsite Residential
595266.24	4171970.65	1.63E-02	9.30E-03	2.67E-03	0.19	0.97	0.05	1.21	0.14	0.11	0.96	1.60	Offsite Residential
595271.59	4172931.11	7.39E-03	9.63E-04	2.13E-02	0.09	0.10	0.40	0.58	0.25	0.03	0.22	0.76	Plant Boundary
595274.00	4172783.00	1.68E-02	1.79E-03	2.24E-02	0.19	0.19	0.42	0.80	0.29	0.06	0.48	1.19	Offsite Worker
595274.00	4172803.00	1.43E-02	1.58E-03	2.00E-02	0.17	0.17	0.37	0.70	0.26	0.05	0.41	1.04	Offsite Worker
595274.00	4172823.00	1.26E-02	1.43E-03	1.76E-02	0.15	0.15	0.33	0.62	0.23	0.04	0.37	0.92	Offsite Worker
595274.00	4172843.00	1.13E-02	1.32E-03	1.57E-02	0.13	0.14	0.29	0.56	0.20	0.04	0.33	0.83	Offsite Worker
595274.00	4172863.00	1.01E-02	1.22E-03	1.40E-02	0.12	0.13	0.26	0.50	0.18	0.04	0.30	0.74	Offsite Worker
595274.00	4172883.00	9.20E-03	1.13E-03	1.33E-02	0.11	0.12	0.25	0.47	0.17	0.03	0.27	0.69	Offsite Worker
595274.00	4172903.00	8.42E-03	1.06E-03	1.43E-02	0.10	0.11	0.27	0.47	0.18	0.03	0.25	0.67	Offsite Worker
595274.00	4172923.00	7.75E-03	9.98E-04	1.82E-02	0.09	0.10	0.34	0.53	0.22	0.03	0.23	0.71	Offsite Worker
595276.16	4172654.64	1.07E-01	7.98E-03	1.88E-02	1.23	0.84	0.35	2.42	0.53	0.34	2.83	4.94	Onsite Worker
595286.24	4171790.65	5.21E-03	2.39E-03	6.88E-04	0.06	0.25	0.01	0.32	0.04	0.03	0.27	0.45	Offsite Residential
595286.24	4171810.65	5.72E-03	2.68E-03	7.93E-04	0.07	0.28	0.01	0.36	0.04	0.04	0.30	0.50	Offsite Residential
595286.24	4171830.65	6.34E-03	3.04E-03	9.23E-04	0.07	0.32	0.02	0.41	0.05	0.04	0.34	0.56	Offsite Residential
595286.24	4171850.65	7.09E-03	3.49E-03	1.08E-03	0.08	0.37	0.02	0.47	0.06	0.05	0.38	0.64	Offsite Residential
595286.24	4171870.65	7.95E-03	4.01E-03	1.27E-03	0.09	0.42	0.02	0.54	0.07	0.05	0.43	0.73	Offsite Residential
595286.24	4171890.65	9.00E-03	4.66E-03	1.50E-03	0.10	0.49	0.03	0.62	0.08	0.06	0.50	0.84	Offsite Residential
595286.24	4171910.65	1.03E-02	5.44E-03	1.77E-03	0.12	0.57	0.03	0.72	0.09	0.07	0.58	0.97	Offsite Residential
595286.24	4171930.65	1.18E-02	6.41E-03	2.08E-03	0.14	0.67	0.04	0.85	0.10	0.08	0.67	1.13	Offsite Residential
595286.24	4171950.65	1.36E-02	7.61E-03	2.44E-03	0.16	0.80	0.05	1.00	0.12	0.09	0.79	1.33	Offsite Residential
595293.61	4172706.67	7.51E-02	5.79E-03	2.51E-02	0.87	0.61	0.47	1.94	0.50	0.24	2.01	3.72	Plant Boundary
595294.00	4172743.00	3.32E-02	2.97E-03	2.18E-02	0.38	0.31	0.41	1.10	0.34	0.11	0.91	1.88	Offsite Worker
595294.00	4172763.00	2.50E-02	2.39E-03	1.96E-02	0.29	0.25	0.36	0.90	0.29	0.08	0.70	1.49	Offsite Worker
595294.00	4172803.00	1.71E-02	1.79E-03	1.51E-02	0.20	0.19	0.28	0.67	0.22	0.06	0.49	1.07	Offsite Worker
595294.00	4172823.00	1.49E-02	1.62E-03	1.35E-02	0.17	0.17	0.25	0.59	0.19	0.05	0.43	0.94	Offsite Worker
595294.00	4172843.00	1.32E-02	1.48E-03	1.22E-02	0.15	0.15	0.23	0.53	0.17	0.05	0.38	0.85	Offsite Worker
595294.00	4172863.00	1.18E-02	1.36E-03	1.13E-02	0.14	0.14	0.21	0.49	0.16	0.04	0.35	0.77	Offsite Worker
595294.00	4172883.00	1.06E-02	1.26E-03	1.10E-02	0.12	0.13	0.21	0.46	0.15	0.04	0.31	0.71	Offsite Worker
595294.00	4172903.00	9.63E-03	1.17E-03	1.18E-02	0.11	0.12	0.22	0.45	0.16	0.03	0.29	0.68	Offsite Worker
595294.00	4172923.00	8.77E-03	1.09E-03	1.35E-02	0.10	0.11	0.25	0.47	0.17	0.03	0.26	0.67	Offsite Worker
595294.00	4173023.00	5.93E-03	8.19E-04	3.60E-03	0.07	0.09	0.07	0.22	0.06	0.02	0.18	0.36	Offsite Worker
595294.00	4173043.00	5.55E-03	7.80E-04	2.67E-03	0.06	0.08	0.05	0.20	0.05	0.02	0.17	0.33	Offsite Worker
595294.00	4173063.00	5.21E-03	7.44E-04	2.05E-03	0.06	0.08	0.04	0.18	0.04	0.02	0.16	0.30	Offsite Worker
595305.29	4173022.49	6.29E-03	8.53E-04	3.45E-03	0.07	0.09	0.06	0.23	0.06	0.02	0.19	0.38	Offsite CSP
595306.24	4171790.65	5.03E-03	2.28E-03	6.60E-04	0.06	0.24	0.01	0.31	0.04	0.03	0.26	0.43	Offsite Residential
595306.24	4171810.65	5.54E-03	2.57E-03	7.65E-04	0.06	0.27	0.01	0.35	0.04	0.03	0.29	0.48	Offsite Residential
595306.24	4171830.65	6.12E-03	2.91E-03	8.93E-04	0.07	0.30	0.02	0.39	0.05	0.04	0.32	0.54	Offsite Residential
595306.24	4171850.65	6.82E-03	3.32E-03	1.05E-03	0.08	0.35	0.02	0.45	0.05	0.04	0.36	0.61	Offsite Residential
595306.24	4171870.65	7.64E-03	3.82E-03	1.24E-03	0.09	0.40	0.02	0.51	0.06	0.05	0.41	0.70	Offsite Residential
595306.24	4171890.65	8.64E-03	4.44E-03	1.48E-03	0.10	0.46	0.03	0.59	0.07	0.06	0.48	0.80	Offsite Residential
595306.24	4171910.65	9.86E-03	5.20E-03	1.77E-03	0.11	0.54	0.03	0.69	0.08	0.07	0.55	0.93	Offsite Residential
595314.00	4172743.00	4.30E-02	3.64E-03	1.68E-02	0.50	0.38	0.31	1.19	0.31	0.14	1.17	2.21	Offsite Worker
595314.00	4172763.00	3.15E-02	2.85E-03	1.48E-02	0.36	0.30	0.28	0.94	0.26	0.10	0.87	1.69	Offsite Worker
595314.00	4172803.00	2.11E-02	2.10E-03	1.18E-02	0.24	0.22	0.22	0.68	0.19	0.07	0.60	1.18	Offsite Worker
595314.00	4172863.00	1.40E-02	1.53E-03	9.36E-03	0.16	0.16	0.17	0.50	0.15	0.05	0.40	0.83	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595314.00	4172883.00	1.24E-02	1.40E-03	9.20E-03	0.14	0.15	0.17	0.46	0.14	0.04	0.36	0.75	Offsite Worker
595314.00	4172903.00	1.11E-02	1.29E-03	9.53E-03	0.13	0.14	0.18	0.44	0.14	0.04	0.32	0.70	Offsite Worker
595314.00	4172923.00	1.00E-02	1.20E-03	9.86E-03	0.12	0.13	0.18	0.42	0.14	0.04	0.30	0.66	Offsite Worker
595314.00	4172943.00	9.13E-03	1.12E-03	9.22E-03	0.11	0.12	0.17	0.39	0.13	0.03	0.27	0.61	Offsite Worker
595314.00	4172963.00	8.34E-03	1.05E-03	7.53E-03	0.10	0.11	0.14	0.35	0.11	0.03	0.25	0.54	Offsite Worker
595314.00	4172983.00	7.67E-03	9.87E-04	5.76E-03	0.09	0.10	0.11	0.30	0.09	0.03	0.23	0.48	Offsite Worker
595314.00	4173003.00	7.11E-03	9.33E-04	4.36E-03	0.08	0.10	0.08	0.26	0.07	0.03	0.21	0.43	Offsite Worker
595314.00	4173023.00	6.56E-03	8.80E-04	3.29E-03	0.08	0.09	0.06	0.23	0.06	0.02	0.20	0.38	Offsite Worker
595314.00	4173043.00	6.11E-03	8.35E-04	2.55E-03	0.07	0.09	0.05	0.21	0.05	0.02	0.19	0.35	Offsite Worker
595314.00	4173063.00	5.71E-03	7.94E-04	2.02E-03	0.07	0.08	0.04	0.19	0.04	0.02	0.18	0.32	Offsite Worker
595326.24	4171790.65	4.86E-03	2.19E-03	6.31E-04	0.06	0.23	0.01	0.30	0.04	0.03	0.25	0.41	Offsite Residential
595326.24	4171810.65	5.33E-03	2.45E-03	7.32E-04	0.06	0.26	0.01	0.33	0.04	0.03	0.28	0.46	Offsite Residential
595326.24	4171830.65	5.89E-03	2.77E-03	8.57E-04	0.07	0.29	0.02	0.37	0.05	0.04	0.31	0.52	Offsite Residential
595326.24	4171850.65	6.55E-03	3.16E-03	1.01E-03	0.08	0.33	0.02	0.43	0.05	0.04	0.35	0.58	Offsite Residential
595334.00	4172743.00	6.31E-02	5.00E-03	1.34E-02	0.73	0.52	0.25	1.50	0.34	0.20	1.70	3.00	Offsite Worker
595334.00	4172763.00	4.33E-02	3.67E-03	1.18E-02	0.50	0.38	0.22	1.10	0.26	0.14	1.18	2.13	Offsite Worker
595334.00	4172823.00	2.24E-02	2.19E-03	8.83E-03	0.26	0.23	0.16	0.65	0.17	0.08	0.63	1.18	Offsite Worker
595334.00	4172843.00	1.91E-02	1.93E-03	8.22E-03	0.22	0.20	0.15	0.58	0.15	0.06	0.54	1.03	Offsite Worker
595334.00	4172863.00	1.66E-02	1.74E-03	7.87E-03	0.19	0.18	0.15	0.52	0.14	0.06	0.47	0.91	Offsite Worker
595334.00	4172883.00	1.45E-02	1.58E-03	7.75E-03	0.17	0.17	0.14	0.48	0.13	0.05	0.42	0.82	Offsite Worker
595334.00	4172903.00	1.29E-02	1.44E-03	7.74E-03	0.15	0.15	0.14	0.44	0.13	0.04	0.37	0.75	Offsite Worker
595334.00	4172923.00	1.15E-02	1.33E-03	7.58E-03	0.13	0.14	0.14	0.41	0.12	0.04	0.34	0.69	Offsite Worker
595334.00	4172943.00	1.04E-02	1.23E-03	6.92E-03	0.12	0.13	0.13	0.38	0.11	0.04	0.31	0.62	Offsite Worker
595334.00	4172963.00	9.44E-03	1.15E-03	5.87E-03	0.11	0.12	0.11	0.34	0.09	0.03	0.28	0.56	Offsite Worker
595334.00	4172983.00	8.62E-03	1.07E-03	4.73E-03	0.10	0.11	0.09	0.30	0.08	0.03	0.26	0.50	Offsite Worker
595334.00	4173003.00	7.90E-03	1.01E-03	3.75E-03	0.09	0.11	0.07	0.27	0.07	0.03	0.24	0.45	Offsite Worker
595334.00	4173023.00	7.28E-03	9.48E-04	2.98E-03	0.08	0.10	0.06	0.24	0.06	0.03	0.22	0.41	Offsite Worker
595334.00	4173043.00	6.74E-03	8.95E-04	2.40E-03	0.08	0.09	0.04	0.22	0.05	0.02	0.20	0.38	Offsite Worker
595334.00	4173063.00	6.26E-03	8.48E-04	1.94E-03	0.07	0.09	0.04	0.20	0.04	0.02	0.19	0.35	Offsite Worker
595334.00	4173103.00	5.44E-03	7.64E-04	1.33E-03	0.06	0.08	0.02	0.17	0.03	0.02	0.17	0.30	Offsite Worker
595334.00	4173123.00	5.09E-03	7.27E-04	1.12E-03	0.06	0.08	0.02	0.16	0.03	0.02	0.16	0.28	Offsite Worker
595354.00	4172763.00	6.27E-02	4.98E-03	9.70E-03	0.72	0.52	0.18	1.43	0.30	0.20	1.68	2.91	Offsite Worker
595354.00	4172783.00	4.42E-02	3.73E-03	8.70E-03	0.51	0.39	0.16	1.06	0.23	0.14	1.20	2.11	Offsite Worker
595354.00	4172803.00	3.44E-02	3.05E-03	8.00E-03	0.40	0.32	0.15	0.87	0.20	0.11	0.95	1.68	Offsite Worker
595354.00	4172823.00	2.78E-02	2.58E-03	7.42E-03	0.32	0.27	0.14	0.73	0.17	0.09	0.77	1.39	Offsite Worker
595354.00	4172843.00	2.32E-02	2.24E-03	7.00E-03	0.27	0.23	0.13	0.63	0.15	0.08	0.65	1.18	Offsite Worker
595354.00	4172863.00	1.97E-02	1.98E-03	6.71E-03	0.23	0.21	0.13	0.56	0.14	0.07	0.56	1.03	Offsite Worker
595354.00	4172903.00	1.49E-02	1.61E-03	6.36E-03	0.17	0.17	0.12	0.46	0.12	0.05	0.43	0.81	Offsite Worker
595354.00	4172923.00	1.32E-02	1.47E-03	6.05E-03	0.15	0.15	0.11	0.42	0.11	0.05	0.38	0.73	Offsite Worker
595354.00	4172943.00	1.18E-02	1.35E-03	5.49E-03	0.14	0.14	0.10	0.38	0.10	0.04	0.34	0.66	Offsite Worker
595354.00	4172963.00	1.06E-02	1.25E-03	4.75E-03	0.12	0.13	0.09	0.34	0.09	0.04	0.31	0.59	Offsite Worker
595354.00	4172983.00	9.66E-03	1.17E-03	3.96E-03	0.11	0.12	0.07	0.31	0.08	0.03	0.29	0.54	Offsite Worker
595354.00	4173003.00	8.80E-03	1.09E-03	3.26E-03	0.10	0.11	0.06	0.28	0.07	0.03	0.26	0.48	Offsite Worker
595354.00	4173023.00	8.06E-03	1.02E-03	2.69E-03	0.09	0.11	0.05	0.25	0.06	0.03	0.24	0.44	Offsite Worker
595354.00	4173043.00	7.42E-03	9.60E-04	2.22E-03	0.09	0.10	0.04	0.23	0.05	0.03	0.22	0.40	Offsite Worker
595354.00	4173063.00	6.86E-03	9.06E-04	1.85E-03	0.08	0.09	0.03	0.21	0.04	0.02	0.21	0.37	Offsite Worker
595354.00	4173083.00	6.36E-03	8.56E-04	1.55E-03	0.07	0.09	0.03	0.19	0.04	0.02	0.19	0.34	Offsite Worker
595354.00	4173103.00	5.91E-03	8.11E-04	1.30E-03	0.07	0.08	0.02	0.18	0.04	0.02	0.18	0.32	Offsite Worker
595354.00	4173123.00	5.51E-03	7.69E-04	1.11E-03	0.06	0.08	0.02	0.16	0.03	0.02	0.17	0.30	Offsite Worker
595354.00	4173143.00	5.15E-03	7.31E-04	9.54E-04	0.06	0.08	0.02	0.15	0.03	0.02	0.16	0.28	Offsite Worker
595354.00	4173163.00	4.84E-03	6.97E-04	8.32E-04	0.06	0.07	0.02	0.14	0.03	0.02	0.15	0.26	Offsite Worker
595374.00	4172763.00	8.49E-02	6.49E-03	7.99E-03	0.98	0.68	0.15	1.81	0.35	0.27	2.26	3.82	Offsite Worker
595374.00	4172783.00	5.82E-02	4.69E-03	7.30E-03	0.67	0.49	0.14	1.30	0.26	0.19	1.57	2.68	Offsite Worker
595374.00	4172803.00	4.36E-02	3.70E-03	6.78E-03	0.50	0.39	0.13	1.02	0.21	0.14	1.19	2.05	Offsite Worker
595374.00	4172823.00	3.44E-02	3.06E-03	6.38E-03	0.40	0.32	0.12	0.84	0.18	0.11	0.95	1.65	Offsite Worker
595374.00	4172843.00	2.80E-02	2.60E-03	6.04E-03	0.32	0.27	0.11	0.71	0.16	0.09	0.78	1.37	Offsite Worker
595374.00	4172863.00	2.34E-02	2.26E-03	5.80E-03	0.27	0.24	0.11	0.62	0.14	0.08	0.66	1.17	Offsite Worker
595374.00	4172883.00	2.00E-02	2.01E-03	5.60E-03	0.23	0.21	0.10	0.55	0.13	0.07	0.57	1.02	Offsite Worker
595374.00	4172903.00	1.73E-02	1.80E-03	5.35E-03	0.20	0.19	0.10	0.49	0.11	0.06	0.49	0.90	Offsite Worker
595374.00	4172923.00	1.51E-02	1.62E-03	5.00E-03	0.17	0.17	0.09	0.44	0.10	0.05	0.43	0.80	Offsite Worker
595374.00	4172943.00	1.34E-02	1.48E-03	4.53E-03	0.15	0.16	0.08	0.39	0.09	0.05	0.39	0.71	Offsite Worker
595374.00	4172963.00	1.20E-02	1.36E-03	3.97E-03	0.14	0.14	0.07	0.36	0.08	0.04	0.35	0.64	Offsite Worker
595374.00	4172983.00	1.08E-02	1.26E-03	3.40E-03	0.12	0.13	0.06	0.32	0.07	0.04	0.32	0.58	Offsite Worker
595374.00	4173003.00	9.76E-03	1.17E-03	2.87E-03	0.11	0.12	0.05	0.29	0.06	0.03	0.29	0.52	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595374.00	4173023.00	8.89E-03	1.10E-03	2.42E-03	0.10	0.11	0.05	0.26	0.06	0.03	0.26	0.47	Offsite Worker
595374.00	4173043.00	8.15E-03	1.03E-03	2.05E-03	0.09	0.11	0.04	0.24	0.05	0.03	0.24	0.43	Offsite Worker
595374.00	4173063.00	7.50E-03	9.65E-04	1.74E-03	0.09	0.10	0.03	0.22	0.05	0.03	0.23	0.40	Offsite Worker
595374.00	4173083.00	6.91E-03	9.09E-04	1.48E-03	0.08	0.10	0.03	0.20	0.04	0.03	0.21	0.37	Offsite Worker
595374.00	4173103.00	6.40E-03	8.58E-04	1.27E-03	0.07	0.09	0.02	0.19	0.04	0.02	0.19	0.34	Offsite Worker
595374.00	4173123.00	5.94E-03	8.11E-04	1.09E-03	0.07	0.08	0.02	0.17	0.03	0.02	0.18	0.31	Offsite Worker
595374.00	4173143.00	5.54E-03	7.70E-04	9.47E-04	0.06	0.08	0.02	0.16	0.03	0.02	0.17	0.29	Offsite Worker
595374.00	4173163.00	5.19E-03	7.33E-04	8.31E-04	0.06	0.08	0.02	0.15	0.03	0.02	0.16	0.28	Offsite Worker
595374.00	4173183.00	4.87E-03	6.99E-04	7.35E-04	0.06	0.07	0.01	0.14	0.03	0.02	0.15	0.26	Offsite Worker
595394.00	4172783.00	7.48E-02	5.84E-03	6.25E-03	0.86	0.61	0.12	1.59	0.30	0.24	2.00	3.36	Offsite Worker
595394.00	4172803.00	5.40E-02	4.43E-03	5.85E-03	0.62	0.46	0.11	1.20	0.24	0.17	1.46	2.48	Offsite Worker
595394.00	4172823.00	4.15E-02	3.57E-03	5.53E-03	0.48	0.37	0.10	0.96	0.19	0.14	1.13	1.94	Offsite Worker
595394.00	4172843.00	3.31E-02	2.98E-03	5.26E-03	0.38	0.31	0.10	0.79	0.16	0.11	0.91	1.58	Offsite Worker
595394.00	4172863.00	2.72E-02	2.55E-03	5.03E-03	0.31	0.27	0.09	0.68	0.14	0.09	0.76	1.32	Offsite Worker
595394.00	4172883.00	2.30E-02	2.24E-03	4.81E-03	0.27	0.23	0.09	0.59	0.13	0.08	0.64	1.13	Offsite Worker
595394.00	4172923.00	1.71E-02	1.79E-03	4.24E-03	0.20	0.19	0.08	0.46	0.10	0.06	0.49	0.87	Offsite Worker
595394.00	4172943.00	1.50E-02	1.62E-03	3.85E-03	0.17	0.17	0.07	0.42	0.09	0.05	0.43	0.77	Offsite Worker
595394.00	4172963.00	1.33E-02	1.48E-03	3.41E-03	0.15	0.16	0.06	0.37	0.08	0.05	0.39	0.69	Offsite Worker
595394.00	4172983.00	1.19E-02	1.36E-03	2.97E-03	0.14	0.14	0.06	0.34	0.07	0.04	0.35	0.62	Offsite Worker
595394.00	4173003.00	1.08E-02	1.26E-03	2.55E-03	0.12	0.13	0.05	0.30	0.06	0.04	0.32	0.56	Offsite Worker
595394.00	4173023.00	9.76E-03	1.17E-03	2.20E-03	0.11	0.12	0.04	0.28	0.06	0.03	0.29	0.51	Offsite Worker
595394.00	4173043.00	8.90E-03	1.10E-03	1.89E-03	0.10	0.11	0.04	0.25	0.05	0.03	0.26	0.46	Offsite Worker
595394.00	4173063.00	8.14E-03	1.03E-03	1.63E-03	0.09	0.11	0.03	0.23	0.05	0.03	0.24	0.43	Offsite Worker
595394.00	4173083.00	7.48E-03	9.63E-04	1.41E-03	0.09	0.10	0.03	0.21	0.04	0.03	0.22	0.39	Offsite Worker
595394.00	4173103.00	6.90E-03	9.06E-04	1.22E-03	0.08	0.09	0.02	0.20	0.04	0.02	0.21	0.36	Offsite Worker
595394.00	4173123.00	6.39E-03	8.56E-04	1.06E-03	0.07	0.09	0.02	0.18	0.03	0.02	0.19	0.33	Offsite Worker
595394.00	4173143.00	5.95E-03	8.11E-04	9.34E-04	0.07	0.08	0.02	0.17	0.03	0.02	0.18	0.31	Offsite Worker
595394.00	4173163.00	5.55E-03	7.70E-04	8.25E-04	0.06	0.08	0.02	0.16	0.03	0.02	0.17	0.29	Offsite Worker
595394.00	4173183.00	5.20E-03	7.32E-04	7.33E-04	0.06	0.08	0.01	0.15	0.03	0.02	0.16	0.27	Offsite Worker
595413.93	4172953.11	1.56E-02	1.67E-03	3.16E-03	0.18	0.18	0.06	0.41	0.09	0.05	0.45	0.78	Offsite Worker
595414.00	4172783.00	9.08E-02	6.94E-03	5.41E-03	1.05	0.73	0.10	1.88	0.35	0.29	2.42	4.03	Offsite Worker
595414.00	4172803.00	6.39E-02	5.13E-03	5.11E-03	0.74	0.54	0.10	1.37	0.26	0.21	1.72	2.88	Offsite Worker
595414.00	4172823.00	4.81E-02	4.05E-03	4.84E-03	0.56	0.42	0.09	1.07	0.21	0.16	1.31	2.21	Offsite Worker
595414.00	4172843.00	3.81E-02	3.35E-03	4.62E-03	0.44	0.35	0.09	0.88	0.17	0.13	1.04	1.78	Offsite Worker
595414.00	4172863.00	3.10E-02	2.84E-03	4.41E-03	0.36	0.30	0.08	0.74	0.15	0.10	0.86	1.47	Offsite Worker
595414.00	4172883.00	2.59E-02	2.47E-03	4.19E-03	0.30	0.26	0.08	0.64	0.13	0.09	0.72	1.25	Offsite Worker
595414.00	4172903.00	2.22E-02	2.19E-03	3.96E-03	0.26	0.23	0.07	0.56	0.12	0.07	0.62	1.08	Offsite Worker
595414.00	4172923.00	1.91E-02	1.95E-03	3.67E-03	0.22	0.20	0.07	0.49	0.10	0.06	0.54	0.94	Offsite Worker
595414.00	4172943.00	1.66E-02	1.76E-03	3.34E-03	0.19	0.18	0.06	0.44	0.09	0.06	0.48	0.83	Offsite Worker
595414.00	4172963.00	1.47E-02	1.60E-03	2.98E-03	0.17	0.17	0.06	0.39	0.08	0.05	0.42	0.74	Offsite Worker
595414.00	4172983.00	1.31E-02	1.47E-03	2.63E-03	0.15	0.15	0.05	0.35	0.07	0.05	0.38	0.66	Offsite Worker
595414.00	4173003.00	1.18E-02	1.35E-03	2.30E-03	0.14	0.14	0.04	0.32	0.06	0.04	0.34	0.60	Offsite Worker
595414.00	4173023.00	1.06E-02	1.25E-03	2.00E-03	0.12	0.13	0.04	0.29	0.06	0.04	0.31	0.54	Offsite Worker
595414.00	4173043.00	9.64E-03	1.17E-03	1.75E-03	0.11	0.12	0.03	0.27	0.05	0.03	0.29	0.49	Offsite Worker
595414.00	4173063.00	8.79E-03	1.09E-03	1.53E-03	0.10	0.11	0.03	0.24	0.05	0.03	0.26	0.45	Offsite Worker
595414.00	4173083.00	8.05E-03	1.02E-03	1.34E-03	0.09	0.11	0.02	0.22	0.04	0.03	0.24	0.42	Offsite Worker
595414.00	4173103.00	7.41E-03	9.56E-04	1.17E-03	0.09	0.10	0.02	0.21	0.04	0.03	0.22	0.38	Offsite Worker
595414.00	4173123.00	6.85E-03	9.01E-04	1.03E-03	0.08	0.09	0.02	0.19	0.04	0.02	0.21	0.36	Offsite Worker
595414.00	4173143.00	6.39E-03	8.56E-04	9.22E-04	0.07	0.09	0.02	0.18	0.03	0.02	0.19	0.33	Offsite Worker
595414.00	4173163.00	5.94E-03	8.10E-04	8.18E-04	0.07	0.08	0.02	0.17	0.03	0.02	0.18	0.31	Offsite Worker
595414.00	4173183.00	5.53E-03	7.67E-04	7.28E-04	0.06	0.08	0.01	0.16	0.03	0.02	0.17	0.29	Offsite Worker
595424.36	4172061.47	3.05E-02	1.92E-02	1.19E-02	0.35	2.01	0.22	2.58	0.35	0.23	1.91	3.32	Plant Boundary
595427.66	4172811.08	6.07E-02	4.95E-03	4.58E-03	0.70	0.52	0.09	1.31	0.24	0.20	1.64	2.74	Offsite Worker
595432.70	4172731.56	2.99E-01	2.08E-02	5.45E-03	3.46	2.18	0.10	5.74	1.00	0.94	7.85	12.83	Onsite Worker
595434.00	4172783.00	9.80E-02	7.48E-03	4.73E-03	1.13	0.78	0.09	2.00	0.36	0.31	2.61	4.33	Offsite Worker
595434.00	4172803.00	6.99E-02	5.58E-03	4.49E-03	0.81	0.58	0.08	1.48	0.27	0.23	1.88	3.13	Offsite Worker
595434.00	4172823.00	5.30E-02	4.42E-03	4.28E-03	0.61	0.46	0.08	1.16	0.22	0.17	1.44	2.41	Offsite Worker
595434.00	4172843.00	4.19E-02	3.65E-03	4.09E-03	0.48	0.38	0.08	0.94	0.18	0.14	1.15	1.94	Offsite Worker
595434.00	4172863.00	3.42E-02	3.09E-03	3.89E-03	0.39	0.32	0.07	0.79	0.15	0.11	0.94	1.60	Offsite Worker
595434.00	4172883.00	2.86E-02	2.69E-03	3.70E-03	0.33	0.28	0.07	0.68	0.13	0.10	0.79	1.36	Offsite Worker
595434.00	4172903.00	2.42E-02	2.36E-03	3.47E-03	0.28	0.25	0.06	0.59	0.12	0.08	0.68	1.17	Offsite Worker
595434.00	4172943.00	1.81E-02	1.89E-03	2.94E-03	0.21	0.20	0.05	0.46	0.09	0.06	0.52	0.89	Offsite Worker
595434.00	4172963.00	1.60E-02	1.71E-03	2.64E-03	0.18	0.18	0.05	0.41	0.08	0.05	0.46	0.79	Offsite Worker
595434.00	4172983.00	1.42E-02	1.57E-03	2.35E-03	0.16	0.16	0.04	0.37	0.07	0.05	0.41	0.71	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595434.00	4173003.00	1.27E-02	1.44E-03	2.08E-03	0.15	0.15	0.04	0.34	0.07	0.04	0.37	0.64	Offsite Worker
595434.00	4173023.00	1.14E-02	1.33E-03	1.83E-03	0.13	0.14	0.03	0.31	0.06	0.04	0.33	0.58	Offsite Worker
595434.00	4173043.00	1.04E-02	1.23E-03	1.62E-03	0.12	0.13	0.03	0.28	0.05	0.04	0.31	0.52	Offsite Worker
595434.00	4173063.00	9.43E-03	1.15E-03	1.43E-03	0.11	0.12	0.03	0.26	0.05	0.03	0.28	0.48	Offsite Worker
595434.00	4173083.00	8.62E-03	1.07E-03	1.27E-03	0.10	0.11	0.02	0.24	0.04	0.03	0.26	0.44	Offsite Worker
595434.00	4173103.00	7.92E-03	1.01E-03	1.13E-03	0.09	0.11	0.02	0.22	0.04	0.03	0.24	0.41	Offsite Worker
595434.00	4173123.00	7.31E-03	9.47E-04	1.00E-03	0.08	0.10	0.02	0.20	0.04	0.03	0.22	0.38	Offsite Worker
595434.00	4173143.00	6.80E-03	8.97E-04	9.00E-04	0.08	0.09	0.02	0.19	0.03	0.02	0.21	0.35	Offsite Worker
595434.00	4173163.00	6.31E-03	8.47E-04	8.04E-04	0.07	0.09	0.01	0.18	0.03	0.02	0.19	0.33	Offsite Worker
595434.00	4173183.00	5.87E-03	8.02E-04	7.20E-04	0.07	0.08	0.01	0.17	0.03	0.02	0.18	0.30	Offsite Worker
595440.32	4172695.89	4.23E-01	2.90E-02	5.49E-03	4.89	3.04	0.10	8.03	1.38	1.32	11.06	18.04	Plant Boundary
595453.66	4172369.33	2.04E-01	2.75E-02	3.41E-02	2.36	2.88	0.63	5.87	1.10	0.75	6.22	10.72	Onsite Worker
595454.00	4172803.00	7.16E-02	5.76E-03	3.99E-03	0.83	0.60	0.07	1.50	0.27	0.23	1.93	3.20	Offsite Worker
595454.00	4172823.00	5.55E-02	4.65E-03	3.81E-03	0.64	0.49	0.07	1.20	0.22	0.18	1.51	2.51	Offsite Worker
595454.00	4172843.00	4.44E-02	3.87E-03	3.64E-03	0.51	0.40	0.07	0.99	0.18	0.15	1.22	2.04	Offsite Worker
595454.00	4172863.00	3.65E-02	3.30E-03	3.47E-03	0.42	0.35	0.06	0.83	0.16	0.12	1.01	1.70	Offsite Worker
595454.00	4172883.00	3.05E-02	2.85E-03	3.28E-03	0.35	0.30	0.06	0.71	0.14	0.10	0.85	1.43	Offsite Worker
595454.00	4172903.00	2.59E-02	2.51E-03	3.08E-03	0.30	0.26	0.06	0.62	0.12	0.09	0.73	1.23	Offsite Worker
595454.00	4172943.00	1.95E-02	2.01E-03	2.61E-03	0.22	0.21	0.05	0.48	0.09	0.07	0.55	0.94	Offsite Worker
595454.00	4172963.00	1.71E-02	1.82E-03	2.37E-03	0.20	0.19	0.04	0.43	0.08	0.06	0.49	0.84	Offsite Worker
595454.00	4172983.00	1.52E-02	1.66E-03	2.13E-03	0.18	0.17	0.04	0.39	0.07	0.05	0.44	0.75	Offsite Worker
595454.00	4173003.00	1.36E-02	1.52E-03	1.90E-03	0.16	0.16	0.04	0.35	0.07	0.05	0.39	0.67	Offsite Worker
595454.00	4173023.00	1.22E-02	1.40E-03	1.69E-03	0.14	0.15	0.03	0.32	0.06	0.04	0.36	0.61	Offsite Worker
595454.00	4173043.00	1.10E-02	1.30E-03	1.51E-03	0.13	0.14	0.03	0.29	0.05	0.04	0.32	0.55	Offsite Worker
595454.00	4173063.00	1.00E-02	1.21E-03	1.35E-03	0.12	0.13	0.03	0.27	0.05	0.04	0.30	0.51	Offsite Worker
595454.00	4173083.00	9.18E-03	1.13E-03	1.21E-03	0.11	0.12	0.02	0.25	0.05	0.03	0.27	0.46	Offsite Worker
595454.00	4173103.00	8.43E-03	1.06E-03	1.08E-03	0.10	0.11	0.02	0.23	0.04	0.03	0.25	0.43	Offsite Worker
595454.00	4173123.00	7.77E-03	9.94E-04	9.72E-04	0.09	0.10	0.02	0.21	0.04	0.03	0.23	0.40	Offsite Worker
595465.61	4172972.42	1.67E-02	1.79E-03	2.12E-03	0.19	0.19	0.04	0.42	0.08	0.06	0.48	0.82	Offsite Worker
595474.00	4172803.00	7.06E-02	5.77E-03	3.57E-03	0.82	0.60	0.07	1.49	0.27	0.23	1.91	3.16	Offsite Worker
595474.00	4172823.00	5.59E-02	4.74E-03	3.41E-03	0.65	0.50	0.06	1.21	0.22	0.18	1.52	2.53	Offsite Worker
595474.00	4172843.00	4.55E-02	3.99E-03	3.26E-03	0.53	0.42	0.06	1.00	0.18	0.15	1.25	2.08	Offsite Worker
595474.00	4172863.00	3.78E-02	3.43E-03	3.11E-03	0.44	0.36	0.06	0.85	0.16	0.13	1.04	1.75	Offsite Worker
595474.00	4172883.00	3.18E-02	2.99E-03	2.94E-03	0.37	0.31	0.05	0.74	0.14	0.11	0.89	1.49	Offsite Worker
595474.00	4172903.00	2.72E-02	2.63E-03	2.75E-03	0.31	0.28	0.05	0.64	0.12	0.09	0.76	1.29	Offsite Worker
595474.00	4172923.00	2.35E-02	2.35E-03	2.56E-03	0.27	0.25	0.05	0.57	0.11	0.08	0.66	1.12	Offsite Worker
595474.00	4172963.00	1.80E-02	1.91E-03	2.14E-03	0.21	0.20	0.04	0.45	0.08	0.06	0.52	0.88	Offsite Worker
595474.00	4172983.00	1.60E-02	1.74E-03	1.94E-03	0.19	0.18	0.04	0.40	0.08	0.06	0.46	0.78	Offsite Worker
595474.00	4173003.00	1.43E-02	1.60E-03	1.75E-03	0.17	0.17	0.03	0.37	0.07	0.05	0.41	0.71	Offsite Worker
595474.00	4173023.00	1.29E-02	1.47E-03	1.57E-03	0.15	0.15	0.03	0.33	0.06	0.04	0.38	0.64	Offsite Worker
595474.00	4173043.00	1.16E-02	1.36E-03	1.41E-03	0.13	0.14	0.03	0.30	0.06	0.04	0.34	0.58	Offsite Worker
595474.00	4173063.00	1.06E-02	1.27E-03	1.27E-03	0.12	0.13	0.02	0.28	0.05	0.04	0.31	0.53	Offsite Worker
595474.00	4173083.00	9.69E-03	1.18E-03	1.15E-03	0.11	0.12	0.02	0.26	0.05	0.03	0.29	0.49	Offsite Worker
595474.00	4173103.00	8.90E-03	1.11E-03	1.04E-03	0.10	0.12	0.02	0.24	0.04	0.03	0.27	0.45	Offsite Worker
595474.00	4173123.00	8.21E-03	1.04E-03	9.41E-04	0.09	0.11	0.02	0.22	0.04	0.03	0.25	0.42	Offsite Worker
595494.00	4172823.00	5.52E-02	4.76E-03	3.08E-03	0.64	0.50	0.06	1.19	0.21	0.18	1.51	2.50	Offsite Worker
595494.00	4172843.00	4.56E-02	4.06E-03	2.94E-03	0.53	0.42	0.05	1.01	0.18	0.15	1.25	2.09	Offsite Worker
595494.00	4172863.00	3.84E-02	3.52E-03	2.80E-03	0.44	0.37	0.05	0.86	0.16	0.13	1.06	1.77	Offsite Worker
595494.00	4172883.00	3.26E-02	3.08E-03	2.65E-03	0.38	0.32	0.05	0.75	0.14	0.11	0.91	1.52	Offsite Worker
595494.00	4172903.00	2.80E-02	2.73E-03	2.48E-03	0.32	0.29	0.05	0.66	0.12	0.09	0.79	1.32	Offsite Worker
595494.00	4172923.00	2.43E-02	2.44E-03	2.31E-03	0.28	0.26	0.04	0.58	0.11	0.08	0.69	1.16	Offsite Worker
595494.00	4172963.00	1.88E-02	1.99E-03	1.95E-03	0.22	0.21	0.04	0.46	0.08	0.06	0.54	0.91	Offsite Worker
595494.00	4172983.00	1.67E-02	1.82E-03	1.78E-03	0.19	0.19	0.03	0.42	0.08	0.06	0.48	0.81	Offsite Worker
595494.00	4173003.00	1.50E-02	1.66E-03	1.61E-03	0.17	0.17	0.03	0.38	0.07	0.05	0.43	0.73	Offsite Worker
595494.00	4173023.00	1.35E-02	1.53E-03	1.46E-03	0.16	0.16	0.03	0.34	0.06	0.05	0.39	0.66	Offsite Worker
595494.00	4173043.00	1.22E-02	1.42E-03	1.32E-03	0.14	0.15	0.02	0.31	0.06	0.04	0.36	0.60	Offsite Worker
595494.00	4173063.00	1.11E-02	1.32E-03	1.20E-03	0.13	0.14	0.02	0.29	0.05	0.04	0.33	0.55	Offsite Worker
595494.00	4173083.00	1.02E-02	1.23E-03	1.09E-03	0.12	0.13	0.02	0.27	0.05	0.04	0.30	0.51	Offsite Worker
595494.00	4173103.00	9.33E-03	1.15E-03	9.96E-04	0.11	0.12	0.02	0.25	0.04	0.03	0.28	0.47	Offsite Worker
595494.00	4173123.00	8.59E-03	1.08E-03	9.07E-04	0.10	0.11	0.02	0.23	0.04	0.03	0.26	0.43	Offsite Worker
595494.00	4173143.00	7.90E-03	1.01E-03	8.21E-04	0.09	0.11	0.02	0.21	0.04	0.03	0.24	0.40	Offsite Worker
595497.98	4172569.45	5.37E-01	3.86E-02	3.29E-03	6.21	4.04	0.06	10.32	1.73	1.70	14.18	23.06	Plant Boundary
595503.43	4172797.49	7.07E-02	5.91E-03	3.12E-03	0.82	0.62	0.06	1.49	0.26	0.23	1.92	3.17	Plant Boundary
595509.20	4172311.10	1.66E-01	8.99E-02	3.85E-02	1.92	9.41	0.72	12.05	1.53	1.13	9.46	16.06	Onsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595514.00	4171823.00	4.16E-03	1.82E-03	4.98E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.35	Offsite Worker
595514.00	4171843.00	4.51E-03	2.00E-03	5.71E-04	0.05	0.21	0.01	0.27	0.03	0.03	0.23	0.38	Offsite Worker
595514.00	4171863.00	4.91E-03	2.22E-03	6.65E-04	0.06	0.23	0.01	0.30	0.04	0.03	0.25	0.42	Offsite Worker
595514.00	4171883.00	5.41E-03	2.50E-03	7.99E-04	0.06	0.26	0.01	0.34	0.04	0.03	0.28	0.47	Offsite Worker
595514.00	4171903.00	5.98E-03	2.82E-03	9.74E-04	0.07	0.30	0.02	0.38	0.05	0.04	0.31	0.53	Offsite Worker
595514.00	4172783.00	7.87E-02	6.54E-03	3.04E-03	0.91	0.69	0.06	1.65	0.29	0.26	2.13	3.52	Offsite Worker
595514.00	4172823.00	5.36E-02	4.72E-03	2.80E-03	0.62	0.49	0.05	1.17	0.21	0.18	1.47	2.44	Offsite Worker
595514.00	4172843.00	4.51E-02	4.08E-03	2.68E-03	0.52	0.43	0.05	1.00	0.18	0.15	1.24	2.07	Offsite Worker
595514.00	4172863.00	3.83E-02	3.57E-03	2.54E-03	0.44	0.37	0.05	0.86	0.15	0.13	1.06	1.77	Offsite Worker
595514.00	4172883.00	3.29E-02	3.15E-03	2.41E-03	0.38	0.33	0.04	0.75	0.14	0.11	0.92	1.53	Offsite Worker
595514.00	4172903.00	2.84E-02	2.80E-03	2.26E-03	0.33	0.29	0.04	0.66	0.12	0.10	0.80	1.34	Offsite Worker
595514.00	4172923.00	2.48E-02	2.51E-03	2.11E-03	0.29	0.26	0.04	0.59	0.11	0.08	0.70	1.18	Offsite Worker
595514.00	4172943.00	2.19E-02	2.27E-03	1.95E-03	0.25	0.24	0.04	0.53	0.09	0.07	0.62	1.05	Offsite Worker
595514.00	4172963.00	1.93E-02	2.06E-03	1.80E-03	0.22	0.22	0.03	0.47	0.09	0.07	0.55	0.93	Offsite Worker
595514.00	4172983.00	1.72E-02	1.88E-03	1.64E-03	0.20	0.20	0.03	0.43	0.08	0.06	0.50	0.83	Offsite Worker
595514.00	4173003.00	1.55E-02	1.72E-03	1.50E-03	0.18	0.18	0.03	0.39	0.07	0.05	0.45	0.75	Offsite Worker
595514.00	4173023.00	1.39E-02	1.59E-03	1.37E-03	0.16	0.17	0.03	0.35	0.06	0.05	0.41	0.68	Offsite Worker
595514.00	4173043.00	1.26E-02	1.47E-03	1.24E-03	0.15	0.15	0.02	0.32	0.06	0.04	0.37	0.62	Offsite Worker
595514.00	4173063.00	1.15E-02	1.37E-03	1.13E-03	0.13	0.14	0.02	0.30	0.05	0.04	0.34	0.57	Offsite Worker
595514.00	4173083.00	1.05E-02	1.28E-03	1.04E-03	0.12	0.13	0.02	0.28	0.05	0.04	0.31	0.53	Offsite Worker
595514.00	4173103.00	9.64E-03	1.19E-03	9.46E-04	0.11	0.12	0.02	0.25	0.04	0.03	0.29	0.48	Offsite Worker
595514.00	4173123.00	8.87E-03	1.12E-03	8.66E-04	0.10	0.12	0.02	0.24	0.04	0.03	0.27	0.45	Offsite Worker
595515.00	4172097.00	3.96E-02	2.58E-02	3.63E-02	0.46	2.70	0.68	3.83	0.68	0.30	2.54	4.79	Onsite Worker
595531.70	4172736.24	1.13E-01	9.16E-03	3.03E-03	1.31	0.96	0.06	2.32	0.40	0.37	3.05	5.00	Plant Boundary
595534.00	4171763.00	3.22E-03	1.33E-03	3.36E-04	0.04	0.14	0.01	0.18	0.02	0.02	0.16	0.26	Offsite Worker
595534.00	4171783.00	3.44E-03	1.44E-03	3.70E-04	0.04	0.15	0.01	0.20	0.02	0.02	0.17	0.28	Offsite Worker
595534.00	4171803.00	3.70E-03	1.58E-03	4.16E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.18	0.30	Offsite Worker
595534.00	4171823.00	4.00E-03	1.74E-03	4.73E-04	0.05	0.18	0.01	0.24	0.03	0.02	0.20	0.33	Offsite Worker
595534.00	4171843.00	4.35E-03	1.92E-03	5.45E-04	0.05	0.20	0.01	0.26	0.03	0.03	0.22	0.37	Offsite Worker
595534.00	4171863.00	4.75E-03	2.14E-03	6.38E-04	0.05	0.22	0.01	0.29	0.04	0.03	0.24	0.40	Offsite Worker
595534.00	4171883.00	5.24E-03	2.41E-03	7.70E-04	0.06	0.25	0.01	0.33	0.04	0.03	0.27	0.45	Offsite Worker
595534.00	4171903.00	5.78E-03	2.71E-03	9.36E-04	0.07	0.28	0.02	0.37	0.05	0.04	0.30	0.51	Offsite Worker
595534.00	4171923.00	6.47E-03	3.10E-03	1.19E-03	0.07	0.32	0.02	0.42	0.05	0.04	0.34	0.58	Offsite Worker
595534.00	4171943.00	7.33E-03	3.59E-03	1.60E-03	0.08	0.38	0.03	0.49	0.06	0.05	0.39	0.67	Offsite Worker
595534.00	4172643.00	2.32E-01	1.79E-02	3.25E-03	2.68	1.88	0.06	4.62	0.78	0.74	6.20	10.11	Offsite Worker
595534.00	4172663.00	2.02E-01	1.57E-02	3.24E-03	2.34	1.64	0.06	4.04	0.68	0.65	5.41	8.83	Offsite Worker
595534.00	4172683.00	1.74E-01	1.37E-02	3.20E-03	2.02	1.43	0.06	3.51	0.59	0.56	4.68	7.64	Offsite Worker
595534.00	4172743.00	1.05E-01	8.60E-03	2.97E-03	1.21	0.90	0.06	2.17	0.37	0.34	2.84	4.66	Offsite Worker
595534.00	4172763.00	8.72E-02	7.31E-03	2.88E-03	1.01	0.77	0.05	1.83	0.31	0.28	2.37	3.89	Offsite Worker
595534.00	4172783.00	7.28E-02	6.25E-03	2.78E-03	0.84	0.65	0.05	1.55	0.27	0.24	1.99	3.27	Offsite Worker
595534.00	4172803.00	6.12E-02	5.38E-03	2.68E-03	0.71	0.56	0.05	1.32	0.23	0.20	1.68	2.77	Offsite Worker
595534.00	4172823.00	5.17E-02	4.66E-03	2.57E-03	0.60	0.49	0.05	1.13	0.20	0.17	1.42	2.36	Offsite Worker
595534.00	4172843.00	4.39E-02	4.07E-03	2.45E-03	0.51	0.43	0.05	0.98	0.17	0.15	1.22	2.02	Offsite Worker
595534.00	4172863.00	3.77E-02	3.58E-03	2.32E-03	0.44	0.38	0.04	0.85	0.15	0.13	1.05	1.75	Offsite Worker
595534.00	4172883.00	3.27E-02	3.19E-03	2.20E-03	0.38	0.33	0.04	0.75	0.13	0.11	0.92	1.53	Offsite Worker
595534.00	4172903.00	2.85E-02	2.85E-03	2.07E-03	0.33	0.30	0.04	0.67	0.12	0.10	0.80	1.34	Offsite Worker
595534.00	4172923.00	2.50E-02	2.56E-03	1.93E-03	0.29	0.27	0.04	0.59	0.11	0.08	0.71	1.19	Offsite Worker
595534.00	4172943.00	2.22E-02	2.33E-03	1.80E-03	0.26	0.24	0.03	0.53	0.09	0.08	0.63	1.06	Offsite Worker
595534.00	4172983.00	1.76E-02	1.93E-03	1.53E-03	0.20	0.20	0.03	0.43	0.08	0.06	0.51	0.85	Offsite Worker
595534.00	4173003.00	1.58E-02	1.78E-03	1.40E-03	0.18	0.19	0.03	0.40	0.07	0.05	0.46	0.77	Offsite Worker
595534.00	4173023.00	1.43E-02	1.64E-03	1.28E-03	0.17	0.17	0.02	0.36	0.06	0.05	0.42	0.70	Offsite Worker
595534.00	4173043.00	1.30E-02	1.52E-03	1.17E-03	0.15	0.16	0.02	0.33	0.06	0.05	0.38	0.64	Offsite Worker
595534.00	4173063.00	1.18E-02	1.41E-03	1.07E-03	0.14	0.15	0.02	0.30	0.05	0.04	0.35	0.58	Offsite Worker
595534.00	4173083.00	1.08E-02	1.31E-03	9.86E-04	0.13	0.14	0.02	0.28	0.05	0.04	0.32	0.54	Offsite Worker
595554.00	4171763.00	3.11E-03	1.28E-03	3.21E-04	0.04	0.13	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595554.00	4171783.00	3.34E-03	1.40E-03	3.59E-04	0.04	0.15	0.01	0.19	0.02	0.02	0.16	0.27	Offsite Worker
595554.00	4171803.00	3.59E-03	1.53E-03	4.04E-04	0.04	0.16	0.01	0.21	0.03	0.02	0.18	0.29	Offsite Worker
595554.00	4171823.00	3.89E-03	1.68E-03	4.62E-04	0.05	0.18	0.01	0.23	0.03	0.02	0.19	0.32	Offsite Worker
595554.00	4171843.00	4.22E-03	1.85E-03	5.31E-04	0.05	0.19	0.01	0.25	0.03	0.03	0.21	0.35	Offsite Worker
595554.00	4171863.00	4.61E-03	2.06E-03	6.25E-04	0.05	0.22	0.01	0.28	0.03	0.03	0.23	0.39	Offsite Worker
595554.00	4171883.00	5.08E-03	2.32E-03	7.53E-04	0.06	0.24	0.01	0.32	0.04	0.03	0.26	0.44	Offsite Worker
595554.00	4171903.00	5.62E-03	2.62E-03	9.27E-04	0.06	0.27	0.02	0.36	0.04	0.04	0.29	0.49	Offsite Worker
595554.00	4171923.00	6.29E-03	3.00E-03	1.19E-03	0.07	0.31	0.02	0.41	0.05	0.04	0.33	0.56	Offsite Worker
595554.00	4171943.00	7.13E-03	3.47E-03	1.59E-03	0.08	0.36	0.03	0.48	0.06	0.05	0.38	0.65	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595554.00	4171963.00	8.21E-03	4.10E-03	2.27E-03	0.09	0.43	0.04	0.57	0.08	0.05	0.44	0.76	Offsite Worker
595554.00	4172643.00	1.93E-01	1.56E-02	3.06E-03	2.23	1.63	0.06	3.92	0.65	0.62	5.20	8.49	Offsite Worker
595554.00	4172663.00	1.70E-01	1.38E-02	3.02E-03	1.96	1.44	0.06	3.46	0.58	0.55	4.58	7.49	Offsite Worker
595554.00	4172683.00	1.48E-01	1.21E-02	2.97E-03	1.71	1.27	0.06	3.04	0.51	0.48	4.01	6.55	Offsite Worker
595554.00	4172763.00	7.92E-02	6.88E-03	2.65E-03	0.92	0.72	0.05	1.68	0.29	0.26	2.17	3.56	Offsite Worker
595554.00	4172783.00	6.72E-02	5.97E-03	2.56E-03	0.78	0.63	0.05	1.45	0.25	0.22	1.85	3.04	Offsite Worker
595554.00	4172803.00	5.74E-02	5.21E-03	2.46E-03	0.66	0.55	0.05	1.26	0.22	0.19	1.59	2.62	Offsite Worker
595554.00	4172843.00	4.24E-02	4.04E-03	2.25E-03	0.49	0.42	0.04	0.96	0.17	0.14	1.18	1.96	Offsite Worker
595554.00	4172863.00	3.68E-02	3.58E-03	2.14E-03	0.43	0.38	0.04	0.84	0.15	0.12	1.03	1.71	Offsite Worker
595554.00	4172883.00	3.23E-02	3.21E-03	2.03E-03	0.37	0.34	0.04	0.75	0.13	0.11	0.91	1.51	Offsite Worker
595554.00	4172903.00	2.84E-02	2.89E-03	1.91E-03	0.33	0.30	0.04	0.67	0.12	0.10	0.80	1.34	Offsite Worker
595554.00	4172923.00	2.51E-02	2.61E-03	1.79E-03	0.29	0.27	0.03	0.60	0.10	0.09	0.71	1.19	Offsite Worker
595554.00	4172943.00	2.23E-02	2.37E-03	1.67E-03	0.26	0.25	0.03	0.54	0.09	0.08	0.64	1.06	Offsite Worker
595554.00	4172963.00	1.99E-02	2.16E-03	1.55E-03	0.23	0.23	0.03	0.49	0.08	0.07	0.57	0.96	Offsite Worker
595554.00	4172983.00	1.78E-02	1.98E-03	1.43E-03	0.21	0.21	0.03	0.44	0.08	0.06	0.52	0.86	Offsite Worker
595554.00	4173003.00	1.61E-02	1.82E-03	1.31E-03	0.19	0.19	0.02	0.40	0.07	0.06	0.47	0.78	Offsite Worker
595554.00	4173023.00	1.46E-02	1.68E-03	1.21E-03	0.17	0.18	0.02	0.37	0.06	0.05	0.43	0.71	Offsite Worker
595554.00	4173043.00	1.32E-02	1.56E-03	1.11E-03	0.15	0.16	0.02	0.34	0.06	0.05	0.39	0.65	Offsite Worker
595554.00	4173063.00	1.21E-02	1.45E-03	1.02E-03	0.14	0.15	0.02	0.31	0.05	0.04	0.36	0.60	Offsite Worker
595554.00	4173083.00	1.11E-02	1.35E-03	9.42E-04	0.13	0.14	0.02	0.29	0.05	0.04	0.33	0.55	Offsite Worker
595568.33	4173021.18	1.48E-02	1.72E-03	1.17E-03	0.17	0.18	0.02	0.37	0.06	0.05	0.43	0.72	Offsite Worker
595574.00	4171743.00	2.87E-03	1.16E-03	2.88E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595574.00	4171763.00	3.07E-03	1.26E-03	3.19E-04	0.04	0.13	0.01	0.17	0.02	0.02	0.15	0.25	Offsite Worker
595574.00	4171783.00	3.26E-03	1.36E-03	3.53E-04	0.04	0.14	0.01	0.19	0.02	0.02	0.16	0.26	Offsite Worker
595574.00	4171803.00	3.56E-03	1.51E-03	4.06E-04	0.04	0.16	0.01	0.21	0.03	0.02	0.18	0.29	Offsite Worker
595574.00	4171823.00	3.85E-03	1.66E-03	4.64E-04	0.04	0.17	0.01	0.23	0.03	0.02	0.19	0.32	Offsite Worker
595574.00	4171843.00	4.20E-03	1.85E-03	5.46E-04	0.05	0.19	0.01	0.25	0.03	0.03	0.21	0.35	Offsite Worker
595574.00	4171863.00	4.49E-03	2.00E-03	6.23E-04	0.05	0.21	0.01	0.27	0.03	0.03	0.23	0.38	Offsite Worker
595574.00	4171883.00	4.94E-03	2.25E-03	7.53E-04	0.06	0.24	0.01	0.31	0.04	0.03	0.25	0.43	Offsite Worker
595574.00	4171903.00	5.52E-03	2.56E-03	9.50E-04	0.06	0.27	0.02	0.35	0.04	0.03	0.29	0.48	Offsite Worker
595574.00	4171923.00	6.18E-03	2.94E-03	1.22E-03	0.07	0.31	0.02	0.40	0.05	0.04	0.33	0.55	Offsite Worker
595574.00	4171943.00	7.03E-03	3.42E-03	1.64E-03	0.08	0.36	0.03	0.47	0.06	0.04	0.38	0.64	Offsite Worker
595574.00	4171963.00	8.13E-03	4.05E-03	2.33E-03	0.09	0.42	0.04	0.56	0.08	0.05	0.44	0.76	Offsite Worker
595574.00	4171983.00	9.62E-03	4.92E-03	3.54E-03	0.11	0.51	0.07	0.69	0.10	0.06	0.53	0.92	Offsite Worker
595574.00	4172643.00	1.63E-01	1.38E-02	2.90E-03	1.88	1.45	0.05	3.38	0.56	0.53	4.43	7.24	Offsite Worker
595574.00	4172663.00	1.45E-01	1.23E-02	2.84E-03	1.67	1.29	0.05	3.02	0.50	0.47	3.95	6.45	Offsite Worker
595574.00	4172683.00	1.28E-01	1.10E-02	2.78E-03	1.48	1.15	0.05	2.68	0.45	0.42	3.49	5.71	Offsite Worker
595574.00	4172763.00	7.23E-02	6.53E-03	2.46E-03	0.84	0.68	0.05	1.57	0.26	0.24	1.99	3.28	Offsite Worker
595574.00	4172783.00	6.24E-02	5.75E-03	2.37E-03	0.72	0.60	0.04	1.37	0.23	0.21	1.73	2.85	Offsite Worker
595574.00	4172803.00	5.40E-02	5.07E-03	2.28E-03	0.62	0.53	0.04	1.20	0.20	0.18	1.50	2.48	Offsite Worker
595574.00	4172823.00	4.69E-02	4.50E-03	2.18E-03	0.54	0.47	0.04	1.05	0.18	0.16	1.31	2.17	Offsite Worker
595574.00	4172843.00	4.09E-02	4.00E-03	2.09E-03	0.47	0.42	0.04	0.93	0.16	0.14	1.15	1.90	Offsite Worker
595574.00	4172863.00	3.59E-02	3.58E-03	1.98E-03	0.41	0.38	0.04	0.83	0.14	0.12	1.01	1.68	Offsite Worker
595574.00	4172883.00	3.16E-02	3.23E-03	1.88E-03	0.37	0.34	0.04	0.74	0.13	0.11	0.90	1.49	Offsite Worker
595574.00	4172903.00	2.80E-02	2.91E-03	1.77E-03	0.32	0.31	0.03	0.66	0.11	0.10	0.80	1.33	Offsite Worker
595574	4172923	2.48E-02	2.64E-03	1.66E-03	0.29	0.28	0.03	0.59	0.10	0.09	0.71	1.18	Offsite Worker
595574	4172943	2.22E-02	2.40E-03	1.55E-03	0.26	0.25	0.03	0.54	0.09	0.08	0.64	1.06	Offsite Worker
595574	4172963	1.99E-02	2.20E-03	1.44E-03	0.23	0.23	0.03	0.49	0.08	0.07	0.57	0.96	Offsite Worker
595574	4172983	1.79E-02	2.02E-03	1.34E-03	0.21	0.21	0.02	0.44	0.08	0.06	0.52	0.87	Offsite Worker
595574.00	4173003.00	1.62E-02	1.86E-03	1.24E-03	0.19	0.19	0.02	0.40	0.07	0.06	0.47	0.79	Offsite Worker
595574.00	4173023.00	1.47E-02	1.72E-03	1.14E-03	0.17	0.18	0.02	0.37	0.06	0.05	0.43	0.72	Offsite Worker
595574.00	4173043.00	1.34E-02	1.60E-03	1.05E-03	0.16	0.17	0.02	0.34	0.06	0.05	0.40	0.66	Offsite Worker
595574.00	4173063.00	1.23E-02	1.48E-03	9.73E-04	0.14	0.16	0.02	0.32	0.05	0.04	0.36	0.61	Offsite Worker
595574.00	4173083.00	1.13E-02	1.38E-03	9.00E-04	0.13	0.14	0.02	0.29	0.05	0.04	0.33	0.56	Offsite Worker
595594.00	4171743.00	2.80E-03	1.13E-03	2.82E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.13	0.22	Offsite Worker
595594	4171763	3.00E-03	1.23E-03	3.15E-04	0.03	0.13	0.01	0.17	0.02	0.02	0.15	0.24	Offsite Worker
595594	4171783	3.17E-03	1.31E-03	3.47E-04	0.04	0.14	0.01	0.18	0.02	0.02	0.15	0.26	Offsite Worker
595594	4171803	3.48E-03	1.47E-03	4.06E-04	0.04	0.15	0.01	0.20	0.02	0.02	0.17	0.29	Offsite Worker
595594	4171823	3.77E-03	1.63E-03	4.67E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.19	0.31	Offsite Worker
595594	4171843	4.12E-03	1.81E-03	5.50E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.35	Offsite Worker
595594	4171863	4.40E-03	1.96E-03	6.33E-04	0.05	0.20	0.01	0.27	0.03	0.03	0.22	0.37	Offsite Worker
595594	4171883	4.86E-03	2.21E-03	7.74E-04	0.06	0.23	0.01	0.30	0.04	0.03	0.25	0.42	Offsite Worker
595594	4171903	5.44E-03	2.53E-03	9.87E-04	0.06	0.26	0.02	0.35	0.04	0.03	0.28	0.48	Offsite Worker
595594	4171923	6.14E-03	2.92E-03	1.28E-03	0.07	0.31	0.02	0.40	0.05	0.04	0.32	0.55	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595594	4171943	7.02E-03	3.42E-03	1.74E-03	0.08	0.36	0.03	0.47	0.06	0.04	0.37	0.64	Offsite Worker
595594	4171963	8.19E-03	4.10E-03	2.46E-03	0.09	0.43	0.05	0.57	0.08	0.05	0.44	0.77	Offsite Worker
595594	4172783	5.77E-02	5.52E-03	2.21E-03	0.67	0.58	0.04	1.29	0.22	0.19	1.61	2.66	Offsite Worker
595594	4172803	5.05E-02	4.92E-03	2.12E-03	0.58	0.51	0.04	1.14	0.19	0.17	1.42	2.33	Offsite Worker
595594	4172823	4.44E-02	4.40E-03	2.03E-03	0.51	0.46	0.04	1.01	0.17	0.15	1.25	2.06	Offsite Worker
595594	4172863	3.47E-02	3.56E-03	1.85E-03	0.40	0.37	0.03	0.81	0.14	0.12	0.98	1.63	Offsite Worker
595594	4172883	3.07E-02	3.22E-03	1.75E-03	0.36	0.34	0.03	0.72	0.12	0.10	0.88	1.45	Offsite Worker
595594	4172903	2.73E-02	2.92E-03	1.65E-03	0.32	0.31	0.03	0.65	0.11	0.09	0.78	1.30	Offsite Worker
595594	4172923	2.45E-02	2.66E-03	1.55E-03	0.28	0.28	0.03	0.59	0.10	0.08	0.70	1.17	Offsite Worker
595594	4172943	2.20E-02	2.43E-03	1.45E-03	0.25	0.25	0.03	0.53	0.09	0.08	0.63	1.06	Offsite Worker
595594	4172963	1.98E-02	2.23E-03	1.36E-03	0.23	0.23	0.03	0.49	0.08	0.07	0.57	0.96	Offsite Worker
595594	4172983	1.79E-02	2.05E-03	1.26E-03	0.21	0.21	0.02	0.44	0.08	0.06	0.52	0.87	Offsite Worker
595594	4173003	1.62E-02	1.89E-03	1.17E-03	0.19	0.20	0.02	0.41	0.07	0.06	0.48	0.79	Offsite Worker
595594	4173023	1.48E-02	1.75E-03	1.08E-03	0.17	0.18	0.02	0.37	0.06	0.05	0.44	0.73	Offsite Worker
595614	4171743	2.75E-03	1.11E-03	2.81E-04	0.03	0.12	0.01	0.15	0.02	0.02	0.13	0.22	Offsite Worker
595614	4171763	2.93E-03	1.19E-03	3.15E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595614	4171783	3.11E-03	1.28E-03	3.47E-04	0.04	0.13	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595614	4171803	3.42E-03	1.45E-03	4.11E-04	0.04	0.15	0.01	0.20	0.02	0.02	0.17	0.28	Offsite Worker
595614	4171823	3.73E-03	1.61E-03	4.80E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.19	0.31	Offsite Worker
595614	4171843	4.08E-03	1.80E-03	5.71E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.34	Offsite Worker
595614	4171863	4.35E-03	1.93E-03	6.55E-04	0.05	0.20	0.01	0.26	0.03	0.03	0.22	0.37	Offsite Worker
595614	4171883	4.82E-03	2.19E-03	8.10E-04	0.06	0.23	0.02	0.30	0.04	0.03	0.25	0.42	Offsite Worker
595614	4171903	5.44E-03	2.53E-03	1.04E-03	0.06	0.27	0.02	0.35	0.04	0.03	0.28	0.48	Offsite Worker
595614	4171923	6.18E-03	2.95E-03	1.37E-03	0.07	0.31	0.03	0.41	0.05	0.04	0.33	0.55	Offsite Worker
595614	4171943	7.12E-03	3.50E-03	1.86E-03	0.08	0.37	0.03	0.48	0.07	0.05	0.38	0.65	Offsite Worker
595614	4171963	8.38E-03	4.23E-03	2.63E-03	0.10	0.44	0.05	0.59	0.08	0.05	0.46	0.79	Offsite Worker
595614	4172783	5.36E-02	5.34E-03	2.06E-03	0.62	0.56	0.04	1.22	0.20	0.18	1.51	2.49	Offsite Worker
595614	4172803	4.74E-02	4.79E-03	1.98E-03	0.55	0.50	0.04	1.09	0.18	0.16	1.34	2.21	Offsite Worker
595614	4172823	4.20E-02	4.31E-03	1.90E-03	0.49	0.45	0.04	0.97	0.16	0.14	1.19	1.97	Offsite Worker
595614	4172863	3.34E-02	3.54E-03	1.73E-03	0.39	0.37	0.03	0.79	0.13	0.11	0.96	1.58	Offsite Worker
595614	4172883	2.97E-02	3.20E-03	1.63E-03	0.34	0.34	0.03	0.71	0.12	0.10	0.85	1.41	Offsite Worker
595614	4172903	2.66E-02	2.91E-03	1.54E-03	0.31	0.31	0.03	0.64	0.11	0.09	0.77	1.27	Offsite Worker
595614	4172923	2.40E-02	2.67E-03	1.46E-03	0.28	0.28	0.03	0.58	0.10	0.08	0.69	1.15	Offsite Worker
595614	4172943	2.17E-02	2.45E-03	1.37E-03	0.25	0.26	0.03	0.53	0.09	0.08	0.63	1.05	Offsite Worker
595614	4172963	1.96E-02	2.25E-03	1.28E-03	0.23	0.24	0.02	0.49	0.08	0.07	0.57	0.95	Offsite Worker
595614	4172983	1.78E-02	2.08E-03	1.19E-03	0.21	0.22	0.02	0.45	0.07	0.06	0.52	0.87	Offsite Worker
595617	4172891	2.83E-02	3.08E-03	1.58E-03	0.33	0.32	0.03	0.68	0.11	0.10	0.82	1.35	Offsite Worker
595634	4171743	2.67E-03	1.07E-03	2.79E-04	0.03	0.11	0.01	0.15	0.02	0.02	0.13	0.21	Offsite Worker
595634	4171763	2.89E-03	1.18E-03	3.18E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595634	4171783	3.11E-03	1.28E-03	3.64E-04	0.04	0.13	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595634	4171803	3.37E-03	1.42E-03	4.22E-04	0.04	0.15	0.01	0.20	0.02	0.02	0.17	0.28	Offsite Worker
595634	4171823	3.70E-03	1.60E-03	4.98E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.18	0.31	Offsite Worker
595634	4171843	4.08E-03	1.80E-03	5.98E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.34	Offsite Worker
595634	4171863	4.41E-03	1.97E-03	7.10E-04	0.05	0.21	0.01	0.27	0.03	0.03	0.22	0.38	Offsite Worker
595634	4171883	4.85E-03	2.21E-03	8.62E-04	0.06	0.23	0.02	0.30	0.04	0.03	0.25	0.42	Offsite Worker
595634	4171903	5.47E-03	2.57E-03	1.11E-03	0.06	0.27	0.02	0.35	0.05	0.03	0.29	0.48	Offsite Worker
595634	4171923	6.31E-03	3.05E-03	1.48E-03	0.07	0.32	0.03	0.42	0.06	0.04	0.34	0.57	Offsite Worker
595634	4171943	7.34E-03	3.65E-03	2.00E-03	0.08	0.38	0.04	0.50	0.07	0.05	0.40	0.68	Offsite Worker
595634	4171963	8.75E-03	4.48E-03	2.82E-03	0.10	0.47	0.05	0.62	0.09	0.06	0.48	0.83	Offsite Worker
595634	4172783	4.98E-02	5.16E-03	1.94E-03	0.58	0.54	0.04	1.15	0.19	0.17	1.42	2.33	Offsite Worker
595634	4172803	4.44E-02	4.67E-03	1.86E-03	0.51	0.49	0.03	1.04	0.17	0.15	1.27	2.09	Offsite Worker
595634	4172823	3.97E-02	4.22E-03	1.78E-03	0.46	0.44	0.03	0.93	0.15	0.14	1.14	1.88	Offsite Worker
595634	4172843	3.55E-02	3.83E-03	1.70E-03	0.41	0.40	0.03	0.84	0.14	0.12	1.02	1.69	Offsite Worker
595634	4172883	2.87E-02	3.18E-03	1.53E-03	0.33	0.33	0.03	0.69	0.12	0.10	0.83	1.37	Offsite Worker
595634	4172903	2.59E-02	2.91E-03	1.45E-03	0.30	0.30	0.03	0.63	0.10	0.09	0.75	1.24	Offsite Worker
595634	4172923	2.34E-02	2.67E-03	1.37E-03	0.27	0.28	0.03	0.58	0.10	0.08	0.68	1.13	Offsite Worker
595634	4172943	2.12E-02	2.46E-03	1.29E-03	0.25	0.26	0.02	0.53	0.09	0.07	0.62	1.03	Offsite Worker
595638	4172034	1.98E-02	1.15E-02	1.46E-02	0.23	1.20	0.27	1.70	0.29	0.14	1.17	2.17	Plant Boundary
595654	4171743	2.66E-03	1.07E-03	2.86E-04	0.03	0.11	0.01	0.15	0.02	0.02	0.13	0.21	Offsite Worker
595654	4171763	2.87E-03	1.17E-03	3.25E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595654	4171783	3.11E-03	1.30E-03	3.76E-04	0.04	0.14	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595654	4171803	3.32E-03	1.39E-03	4.28E-04	0.04	0.15	0.01	0.19	0.02	0.02	0.16	0.27	Offsite Worker
595654	4171823	3.72E-03	1.61E-03	5.23E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.19	0.31	Offsite Worker
595654	4171843	4.11E-03	1.83E-03	6.34E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.35	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595654	4171863	4.59E-03	2.10E-03	7.83E-04	0.05	0.22	0.01	0.29	0.04	0.03	0.24	0.40	Offsite Worker
595654	4171883	5.01E-03	2.31E-03	9.50E-04	0.06	0.24	0.02	0.32	0.04	0.03	0.26	0.44	Offsite Worker
595654	4171903	5.66E-03	2.68E-03	1.21E-03	0.07	0.28	0.02	0.37	0.05	0.04	0.30	0.50	Offsite Worker
595654	4171923	6.53E-03	3.19E-03	1.59E-03	0.08	0.33	0.03	0.44	0.06	0.04	0.35	0.60	Offsite Worker
595654	4171943	7.68E-03	3.88E-03	2.15E-03	0.09	0.41	0.04	0.53	0.07	0.05	0.42	0.72	Offsite Worker
595654	4171963	9.22E-03	4.80E-03	2.99E-03	0.11	0.50	0.06	0.67	0.09	0.06	0.51	0.89	Offsite Worker
595654	4172803	4.17E-02	4.55E-03	1.75E-03	0.48	0.48	0.03	0.99	0.16	0.14	1.20	1.98	Offsite Worker
595654	4172823	3.75E-02	4.14E-03	1.68E-03	0.43	0.43	0.03	0.90	0.15	0.13	1.08	1.79	Offsite Worker
595654	4172843	3.38E-02	3.77E-03	1.60E-03	0.39	0.40	0.03	0.82	0.13	0.12	0.98	1.62	Offsite Worker
595654	4172883	2.76E-02	3.16E-03	1.45E-03	0.32	0.33	0.03	0.68	0.11	0.10	0.81	1.33	Offsite Worker
595674	4171743	2.65E-03	1.07E-03	2.94E-04	0.03	0.11	0.01	0.15	0.02	0.02	0.13	0.21	Offsite Worker
595674	4171763	2.86E-03	1.18E-03	3.37E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595674	4171783	3.11E-03	1.31E-03	3.93E-04	0.04	0.14	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595674	4171803	3.32E-03	1.40E-03	4.46E-04	0.04	0.15	0.01	0.19	0.02	0.02	0.16	0.27	Offsite Worker
595674	4171823	3.72E-03	1.61E-03	5.54E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.19	0.31	Offsite Worker
595674	4171843	4.06E-03	1.80E-03	6.53E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.35	Offsite Worker
595674	4171863	4.52E-03	2.06E-03	7.99E-04	0.05	0.22	0.01	0.28	0.04	0.03	0.23	0.39	Offsite Worker
595674	4171883	5.12E-03	2.39E-03	1.01E-03	0.06	0.25	0.02	0.33	0.04	0.03	0.27	0.45	Offsite Worker
595674	4171903	5.90E-03	2.84E-03	1.30E-03	0.07	0.30	0.02	0.39	0.05	0.04	0.31	0.53	Offsite Worker
595674	4171923	6.88E-03	3.42E-03	1.72E-03	0.08	0.36	0.03	0.47	0.06	0.04	0.37	0.64	Offsite Worker
595674	4171943	8.16E-03	4.19E-03	2.30E-03	0.09	0.44	0.04	0.58	0.08	0.05	0.45	0.77	Offsite Worker
595674	4171963	9.84E-03	5.22E-03	3.14E-03	0.11	0.55	0.06	0.72	0.10	0.07	0.55	0.96	Offsite Worker
595674	4172803	3.91E-02	4.44E-03	1.65E-03	0.45	0.46	0.03	0.95	0.15	0.14	1.14	1.87	Offsite Worker
595674	4172823	3.54E-02	4.06E-03	1.58E-03	0.41	0.42	0.03	0.86	0.14	0.12	1.03	1.70	Offsite Worker
595674	4172843	3.21E-02	3.71E-03	1.51E-03	0.37	0.39	0.03	0.79	0.13	0.11	0.94	1.55	Offsite Worker
595694	4171743	2.63E-03	1.06E-03	3.06E-04	0.03	0.11	0.01	0.15	0.02	0.02	0.13	0.21	Offsite Worker
595694	4171763	2.81E-03	1.15E-03	3.43E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595694	4171783	3.05E-03	1.27E-03	3.97E-04	0.04	0.13	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595694	4171803	3.35E-03	1.43E-03	4.70E-04	0.04	0.15	0.01	0.20	0.02	0.02	0.17	0.28	Offsite Worker
595694	4171823	3.72E-03	1.62E-03	5.67E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.19	0.31	Offsite Worker
595694	4171843	4.19E-03	1.88E-03	7.04E-04	0.05	0.20	0.01	0.26	0.03	0.03	0.21	0.36	Offsite Worker
595694	4171863	4.81E-03	2.23E-03	8.99E-04	0.06	0.23	0.02	0.31	0.04	0.03	0.25	0.42	Offsite Worker
595694	4171883	5.49E-03	2.61E-03	1.13E-03	0.06	0.27	0.02	0.36	0.05	0.03	0.29	0.49	Offsite Worker
595694	4171903	6.25E-03	3.06E-03	1.41E-03	0.07	0.32	0.03	0.42	0.05	0.04	0.33	0.57	Offsite Worker
595694	4171923	7.29E-03	3.68E-03	1.82E-03	0.08	0.39	0.03	0.50	0.07	0.05	0.40	0.68	Offsite Worker
595694	4171943	8.72E-03	4.55E-03	2.41E-03	0.10	0.48	0.04	0.62	0.08	0.06	0.49	0.83	Offsite Worker
595714	4171763	2.85E-03	1.17E-03	3.61E-04	0.03	0.12	0.01	0.16	0.02	0.02	0.14	0.23	Offsite Worker
595714	4171783	3.18E-03	1.34E-03	4.39E-04	0.04	0.14	0.01	0.19	0.02	0.02	0.16	0.26	Offsite Worker
595714	4171803	3.56E-03	1.56E-03	5.24E-04	0.04	0.16	0.01	0.21	0.03	0.02	0.18	0.30	Offsite Worker
595714	4171823	3.98E-03	1.79E-03	6.33E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.20	0.34	Offsite Worker
595714	4171843	4.44E-03	2.04E-03	7.75E-04	0.05	0.21	0.01	0.28	0.04	0.03	0.23	0.39	Offsite Worker
595714	4171863	5.01E-03	2.35E-03	9.57E-04	0.06	0.25	0.02	0.32	0.04	0.03	0.26	0.44	Offsite Worker
595714	4171883	5.79E-03	2.81E-03	1.20E-03	0.07	0.29	0.02	0.38	0.05	0.04	0.31	0.52	Offsite Worker
595714	4171903	6.91E-03	3.49E-03	1.53E-03	0.08	0.37	0.03	0.47	0.06	0.05	0.38	0.64	Offsite Worker
595734	4171763	2.97E-03	1.25E-03	3.96E-04	0.03	0.13	0.01	0.17	0.02	0.02	0.15	0.24	Offsite Worker
595734	4171783	3.26E-03	1.40E-03	4.67E-04	0.04	0.15	0.01	0.19	0.02	0.02	0.16	0.27	Offsite Worker
595734	4171803	3.62E-03	1.59E-03	5.55E-04	0.04	0.17	0.01	0.22	0.03	0.02	0.18	0.31	Offsite Worker
595734	4171823	4.06E-03	1.83E-03	6.70E-04	0.05	0.19	0.01	0.25	0.03	0.02	0.21	0.35	Offsite Worker
595734	4171843	4.59E-03	2.13E-03	8.16E-04	0.05	0.22	0.02	0.29	0.04	0.03	0.24	0.40	Offsite Worker
595734	4171863	5.24E-03	2.50E-03	1.00E-03	0.06	0.26	0.02	0.34	0.04	0.03	0.28	0.47	Offsite Worker
595734	4171883	6.09E-03	2.99E-03	1.26E-03	0.07	0.31	0.02	0.41	0.05	0.04	0.33	0.55	Offsite Worker
595734	4171903	7.13E-03	3.61E-03	1.58E-03	0.08	0.38	0.03	0.49	0.06	0.05	0.39	0.66	Offsite Worker
595754	4171763	3.04E-03	1.29E-03	4.18E-04	0.04	0.13	0.01	0.18	0.02	0.02	0.15	0.25	Offsite Worker
595754	4171783	3.35E-03	1.45E-03	4.89E-04	0.04	0.15	0.01	0.20	0.03	0.02	0.17	0.28	Offsite Worker
595754	4171803	3.72E-03	1.65E-03	5.77E-04	0.04	0.17	0.01	0.23	0.03	0.02	0.19	0.32	Offsite Worker
595754	4171823	4.22E-03	1.93E-03	7.04E-04	0.05	0.20	0.01	0.26	0.03	0.03	0.22	0.37	Offsite Worker
595754	4171843	4.82E-03	2.27E-03	8.61E-04	0.06	0.24	0.02	0.31	0.04	0.03	0.25	0.42	Offsite Worker
595754	4171863	5.55E-03	2.68E-03	1.06E-03	0.06	0.28	0.02	0.36	0.05	0.04	0.29	0.50	Offsite Worker
595754	4171883	6.43E-03	3.20E-03	1.30E-03	0.07	0.33	0.02	0.43	0.06	0.04	0.35	0.59	Offsite Worker
595754	4171903	7.62E-03	3.91E-03	1.62E-03	0.09	0.41	0.03	0.53	0.07	0.05	0.42	0.71	Offsite Worker
595754	4171923	9.15E-03	4.84E-03	2.00E-03	0.11	0.51	0.04	0.65	0.08	0.06	0.51	0.87	Offsite Worker
595774	4171783	3.49E-03	1.54E-03	5.19E-04	0.04	0.16	0.01	0.21	0.03	0.02	0.18	0.29	Offsite Worker
595774	4171863	5.88E-03	2.87E-03	1.10E-03	0.07	0.30	0.02	0.39	0.05	0.04	0.31	0.53	Offsite Worker
595774	4171883	6.83E-03	3.43E-03	1.34E-03	0.08	0.36	0.02	0.46	0.06	0.04	0.37	0.63	Offsite Worker

Receptor		Total DPM Concentration (ug/m3)			Cancer Risk (in a million)								Receptor Type
					Offsite Residential				Offsite Worker	Onsite Worker	Onsite Daycare	CSP Users	
X	Y	3rd Tri	0 < 2	2 < 16	3rd Tri	0 < 2	2 < 16	Total					
595774	4171903	8.09E-03	4.19E-03	1.64E-03	0.09	0.44	0.03	0.56	0.07	0.05	0.45	0.76	Offsite Worker
595774	4171923	9.61E-03	5.11E-03	1.99E-03	0.11	0.53	0.04	0.68	0.09	0.06	0.54	0.91	Offsite Worker
595782	4171913	9.02E-03	4.74E-03	1.80E-03	0.10	0.50	0.03	0.63	0.08	0.06	0.50	0.85	Offsite Worker
595790	4171878	6.84E-03	3.43E-03	1.28E-03	0.08	0.36	0.02	0.46	0.06	0.04	0.37	0.63	Offsite Worker
595794	4171863	6.23E-03	3.08E-03	1.13E-03	0.07	0.32	0.02	0.42	0.05	0.04	0.34	0.57	Offsite Worker
595794	4171883	7.18E-03	3.63E-03	1.35E-03	0.08	0.38	0.03	0.49	0.06	0.05	0.39	0.66	Offsite Worker
595794	4171903	8.52E-03	4.44E-03	1.63E-03	0.10	0.46	0.03	0.59	0.07	0.06	0.47	0.80	Offsite Worker
595794	4171923	1.00E-02	5.35E-03	1.95E-03	0.12	0.56	0.04	0.71	0.09	0.07	0.57	0.95	Offsite Worker
595814	4171863	6.55E-03	3.26E-03	1.15E-03	0.08	0.34	0.02	0.44	0.05	0.04	0.35	0.60	Offsite Worker
595814	4171883	7.61E-03	3.88E-03	1.37E-03	0.09	0.41	0.03	0.52	0.06	0.05	0.42	0.70	Offsite Worker
595814	4171903	8.90E-03	4.64E-03	1.61E-03	0.10	0.49	0.03	0.62	0.08	0.06	0.50	0.83	Offsite Worker
595814	4171923	1.05E-02	5.57E-03	1.90E-03	0.12	0.58	0.04	0.74	0.09	0.07	0.59	0.99	Offsite Worker
595827	4171700	2.53E-03	1.05E-03	3.14E-04	0.03	0.11	0.01	0.14	0.02	0.01	0.12	0.21	Offsite Worker
595833	4171885	8.06E-03	4.12E-03	1.38E-03	0.09	0.43	0.03	0.55	0.07	0.05	0.44	0.74	Offsite Residential
595833	4171905	9.38E-03	4.90E-03	1.61E-03	0.11	0.51	0.03	0.65	0.08	0.06	0.52	0.88	Offsite Residential
595833	4171925	1.09E-02	5.81E-03	1.87E-03	0.13	0.61	0.03	0.77	0.09	0.07	0.62	1.03	Offsite Residential
595853	4171825	5.50E-03	2.65E-03	8.64E-04	0.06	0.28	0.02	0.36	0.04	0.03	0.29	0.49	Offsite Residential
595853	4171845	6.29E-03	3.09E-03	1.01E-03	0.07	0.32	0.02	0.42	0.05	0.04	0.34	0.57	Offsite Residential
595853	4171865	7.24E-03	3.63E-03	1.18E-03	0.08	0.38	0.02	0.49	0.06	0.05	0.39	0.66	Offsite Residential
595853	4171885	8.38E-03	4.29E-03	1.37E-03	0.10	0.45	0.03	0.57	0.07	0.06	0.46	0.77	Offsite Residential
595853	4171905	9.74E-03	5.08E-03	1.58E-03	0.11	0.53	0.03	0.67	0.08	0.06	0.54	0.91	Offsite Residential
595853	4171925	1.13E-02	5.97E-03	1.80E-03	0.13	0.62	0.03	0.79	0.09	0.08	0.63	1.06	Offsite Residential
595852.66	4171945.33	1.31E-02	7.06E-03	2.03E-03	0.15	0.74	0.04	0.93	0.11	0.09	0.74	1.24	Offsite Residential
595857.85	4171568.40	1.56E-03	5.80E-04	1.54E-04	0.02	0.06	0.00	0.08	0.01	0.01	0.07	0.12	Offsite Worker
595872.66	4171865.33	7.52E-03	3.78E-03	1.17E-03	0.09	0.40	0.02	0.50	0.06	0.05	0.41	0.69	Offsite Residential
595872.66	4171885.33	8.67E-03	4.43E-03	1.34E-03	0.10	0.46	0.03	0.59	0.07	0.06	0.48	0.80	Offsite Residential
595873	4171905	1.00E-02	5.21E-03	1.53E-03	0.12	0.55	0.03	0.69	0.08	0.07	0.56	0.93	Offsite Residential
595873	4171925	1.15E-02	6.07E-03	1.73E-03	0.13	0.64	0.03	0.80	0.10	0.08	0.65	1.08	Offsite Residential
595873	4171945	1.33E-02	7.09E-03	1.93E-03	0.15	0.74	0.04	0.93	0.11	0.09	0.75	1.25	Offsite Residential
595893	4171865	7.79E-03	3.90E-03	1.16E-03	0.09	0.41	0.02	0.52	0.06	0.05	0.42	0.71	Offsite Residential
595893	4171885	8.94E-03	4.55E-03	1.32E-03	0.10	0.48	0.02	0.60	0.07	0.06	0.49	0.82	Offsite Residential
595893	4171905	1.03E-02	5.29E-03	1.48E-03	0.12	0.55	0.03	0.70	0.08	0.07	0.57	0.95	Offsite Residential
595893	4171925	1.17E-02	6.14E-03	1.66E-03	0.14	0.64	0.03	0.81	0.10	0.08	0.65	1.09	Offsite Residential
595893	4171945	1.34E-02	7.07E-03	1.83E-03	0.15	0.74	0.03	0.93	0.11	0.09	0.75	1.25	Offsite Residential
595913	4171905	1.04E-02	5.34E-03	1.43E-03	0.12	0.56	0.03	0.71	0.08	0.07	0.57	0.96	Offsite Residential
595913	4171925	1.19E-02	6.16E-03	1.59E-03	0.14	0.64	0.03	0.81	0.10	0.08	0.66	1.10	Offsite Residential
595913	4171945	1.34E-02	7.03E-03	1.74E-03	0.16	0.74	0.03	0.92	0.11	0.09	0.75	1.25	Offsite Residential
595933	4171945	1.35E-02	6.96E-03	1.65E-03	0.16	0.73	0.03	0.91	0.11	0.09	0.75	1.24	Offsite Residential
596060	4172739	1.67E-02	3.12E-03	8.20E-04	0.19	0.33	0.02	0.53	0.08	0.07	0.57	0.93	Offsite Worker

Construction CHI Calculations

DPM Chronic Reference Exposure Level (ug/m3): 5

Annual Average DPM Emission Rate (g/s)					
Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling
3.36E-02	1.19E-02	9.74E-05	2.67E-05	5.20E-06	1.43E-06

Phase 1 Max HI
1.07E-01

Annual Avg DPM Emission Rate (g/s)		
Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling
3.41E-03	1.57E-05	9.30E-07

Phase 2 Max HI
3.59E-01

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
594854.00	4172863.00	2.11E-03	2.96E-04	9.18E-06	2.15E-06	5.44E-07	5.43E-08	2.41E-03	4.83E-04	5.78E-04	1.26E-06	2.75E-07	5.80E-04	5.41E-03
594854.00	4172883.00	1.97E-03	2.93E-04	8.63E-06	2.04E-06	5.15E-07	5.24E-08	2.27E-03	4.54E-04	5.06E-04	1.20E-06	2.36E-07	5.07E-04	4.73E-03
594854.00	4172903.00	1.85E-03	2.89E-04	8.16E-06	1.94E-06	4.91E-07	5.10E-08	2.15E-03	4.29E-04	4.36E-04	1.14E-06	2.03E-07	4.38E-04	4.08E-03
594854.00	4172923.00	1.74E-03	2.85E-04	7.71E-06	1.85E-06	4.68E-07	4.93E-08	2.04E-03	4.07E-04	3.72E-04	1.08E-06	1.75E-07	3.74E-04	3.48E-03
594874.00	4172823.00	2.54E-03	3.14E-04	1.10E-05	2.55E-06	6.37E-07	5.79E-08	2.87E-03	5.73E-04	7.93E-04	1.50E-06	4.00E-07	7.95E-04	7.42E-03
594874.00	4172843.00	2.35E-03	3.12E-04	1.04E-05	2.42E-06	6.05E-07	5.75E-08	2.67E-03	5.35E-04	7.22E-04	1.42E-06	3.56E-07	7.24E-04	6.75E-03
594874.00	4172863.00	2.19E-03	3.06E-04	9.78E-06	2.30E-06	5.74E-07	5.63E-08	2.50E-03	5.01E-04	6.44E-04	1.35E-06	3.10E-07	6.46E-04	6.02E-03
594874.00	4172883.00	2.04E-03	3.05E-04	9.13E-06	2.16E-06	5.42E-07	5.41E-08	2.35E-03	4.71E-04	5.60E-04	1.27E-06	2.64E-07	5.62E-04	5.24E-03
594874.00	4172903.00	1.91E-03	3.00E-04	8.62E-06	2.06E-06	5.17E-07	5.26E-08	2.22E-03	4.45E-04	4.81E-04	1.21E-06	2.25E-07	4.83E-04	4.50E-03
594874.00	4172923.00	1.80E-03	2.95E-04	8.19E-06	1.97E-06	4.96E-07	5.16E-08	2.11E-03	4.22E-04	4.08E-04	1.16E-06	1.93E-07	4.10E-04	3.82E-03
594894.00	4172803.00	2.90E-03	3.30E-04	1.28E-05	2.97E-06	7.20E-07	6.25E-08	3.24E-03	6.49E-04	9.55E-04	1.74E-06	5.07E-07	9.57E-04	8.92E-03
594894.00	4172823.00	2.65E-03	3.29E-04	1.18E-05	2.75E-06	6.75E-07	6.10E-08	2.99E-03	5.98E-04	8.86E-04	1.62E-06	4.57E-07	8.88E-04	8.28E-03
594894.00	4172843.00	2.44E-03	3.26E-04	1.10E-05	2.57E-06	6.35E-07	5.87E-08	2.78E-03	5.55E-04	8.05E-04	1.51E-06	4.02E-07	8.07E-04	7.52E-03
594894.00	4172863.00	2.26E-03	3.22E-04	1.03E-05	2.43E-06	6.03E-07	5.77E-08	2.60E-03	5.20E-04	7.18E-04	1.43E-06	3.49E-07	7.20E-04	6.71E-03
594894.00	4172883.00	2.11E-03	3.16E-04	9.63E-06	2.29E-06	5.70E-07	5.55E-08	2.44E-03	4.88E-04	6.25E-04	1.35E-06	2.97E-07	6.26E-04	5.84E-03
594894.00	4172903.00	1.98E-03	3.11E-04	9.07E-06	2.17E-06	5.44E-07	5.37E-08	2.31E-03	4.61E-04	5.34E-04	1.28E-06	2.51E-07	5.35E-04	4.99E-03
594894.00	4172923.00	1.87E-03	3.05E-04	8.64E-06	2.08E-06	5.24E-07	5.30E-08	2.19E-03	4.38E-04	4.50E-04	1.22E-06	2.14E-07	4.51E-04	4.21E-03
594914.00	4172803.00	3.02E-03	3.46E-04	1.38E-05	3.21E-06	7.62E-07	6.50E-08	3.39E-03	6.78E-04	1.06E-03	1.88E-06	5.77E-07	1.06E-03	9.93E-03
594914.00	4172823.00	2.76E-03	3.43E-04	1.28E-05	2.98E-06	7.16E-07	6.34E-08	3.12E-03	6.24E-04	9.93E-04	1.75E-06	5.24E-07	9.95E-04	9.28E-03
594914.00	4172843.00	2.54E-03	3.40E-04	1.18E-05	2.78E-06	6.75E-07	6.18E-08	2.90E-03	5.79E-04	9.08E-04	1.63E-06	4.63E-07	9.10E-04	8.48E-03
594914.00	4172863.00	2.35E-03	3.34E-04	1.10E-05	2.60E-06	6.38E-07	5.95E-08	2.70E-03	5.40E-04	8.08E-04	1.53E-06	3.99E-07	8.10E-04	7.55E-03
594914.00	4172883.00	2.20E-03	3.28E-04	1.03E-05	2.45E-06	6.05E-07	5.75E-08	2.54E-03	5.08E-04	7.03E-04	1.44E-06	3.38E-07	7.05E-04	6.57E-03
594914.00	4172903.00	2.06E-03	3.21E-04	9.65E-06	2.32E-06	5.77E-07	5.58E-08	2.40E-03	4.79E-04	5.98E-04	1.36E-06	2.83E-07	5.99E-04	5.59E-03
594914.00	4172923.00	1.95E-03	3.15E-04	9.18E-06	2.22E-06	5.58E-07	5.52E-08	2.28E-03	4.55E-04	5.00E-04	1.30E-06	2.40E-07	5.01E-04	4.68E-03
594934.00	4172783.00	3.52E-03	3.69E-04	1.67E-05	3.86E-06	8.73E-07	6.96E-08	3.91E-03	7.83E-04	1.24E-03	2.27E-06	7.12E-07	1.24E-03	1.16E-02
594934.00	4172803.00	3.17E-03	3.64E-04	1.50E-05	3.50E-06	8.11E-07	6.76E-08	3.55E-03	7.10E-04	1.19E-03	2.05E-06	6.64E-07	1.19E-03	1.11E-02
594934.00	4172823.00	2.88E-03	3.59E-04	1.38E-05	3.23E-06	7.61E-07	6.58E-08	3.26E-03	6.52E-04	1.12E-03	1.89E-06	6.06E-07	1.12E-03	1.04E-02
594934.00	4172843.00	2.65E-03	3.54E-04	1.27E-05	3.01E-06	7.19E-07	6.41E-08	3.02E-03	6.04E-04	1.03E-03	1.76E-06	5.38E-07	1.03E-03	9.61E-03
594934.00	4172863.00	2.46E-03	3.48E-04	1.18E-05	2.82E-06	6.81E-07	6.23E-08	2.82E-03	5.64E-04	9.21E-04	1.65E-06	4.64E-07	9.23E-04	8.61E-03
594954.00	4172783.00	3.68E-03	3.87E-04	1.80E-05	4.19E-06	9.23E-07	7.21E-08	4.09E-03	8.18E-04	1.37E-03	2.46E-06	8.08E-07	1.37E-03	1.28E-02
594954.00	4172803.00	3.31E-03	3.82E-04	1.63E-05	3.81E-06	8.63E-07	7.02E-08	3.72E-03	7.43E-04	1.33E-03	2.23E-06	7.65E-07	1.33E-03	1.24E-02
594954.00	4172823.00	3.01E-03	3.76E-04	1.49E-05	3.50E-06	8.11E-07	6.82E-08	3.41E-03	6.82E-04	1.26E-03	2.05E-06	7.04E-07	1.27E-03	1.18E-02
594954.00	4172843.00	2.77E-03	3.70E-04	1.37E-05	3.25E-06	7.66E-07	6.63E-08	3.16E-03	6.31E-04	1.17E-03	1.91E-06	6.28E-07	1.17E-03	1.09E-02
594974.00	4172783.00	3.87E-03	4.06E-04	1.99E-05	4.62E-06	9.87E-07	7.49E-08	4.30E-03	8.61E-04	1.52E-03	2.71E-06	9.28E-07	1.52E-03	1.42E-02
594974.00	4172803.00	3.48E-03	4.00E-04	1.78E-05	4.18E-06	9.24E-07	7.28E-08	3.90E-03	7.81E-04	1.49E-03	2.45E-06	8.89E-07	1.49E-03	1.39E-02
595014.00	4172563.00	2.33E-02	5.56E-04	8.97E-05	2.07E-05	4.45E-06	1.13E-07	2.40E-02	4.79E-03	1.44E-03	1.22E-05	5.37E-07	1.45E-03	1.35E-02
595014.00	4172583.00	2.05E-02	5.39E-04	8.94E-05	2.07E-05	3.72E-06	1.10E-07	2.11E-02	4.23E-03	1.54E-03	1.21E-05	6.29E-07	1.56E-03	1.45E-02
595022.43	4172341.44	3.58E-02	1.53E-03	7.70E-05	1.77E-05	8.59E-06	2.01E-07	3.74E-02	7.48E-03	8.29E-04	1.04E-05	2.25E-07	8.39E-04	7.83E-03

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595034.00	4172503.00	3.44E-02	6.69E-04	9.79E-05	2.26E-05	7.97E-06	1.34E-07	3.52E-02	7.04E-03	1.10E-03	1.32E-05	3.37E-07	1.12E-03	1.04E-02
595034.00	4172523.00	3.19E-02	6.36E-04	9.98E-05	2.30E-05	7.07E-06	1.29E-07	3.27E-02	6.54E-03	1.24E-03	1.35E-05	3.89E-07	1.25E-03	1.17E-02
595034.00	4172543.00	2.91E-02	6.09E-04	1.01E-04	2.34E-05	6.10E-06	1.24E-07	2.98E-02	5.96E-03	1.38E-03	1.37E-05	4.57E-07	1.40E-03	1.30E-02
595034.00	4172563.00	2.60E-02	5.88E-04	1.03E-04	2.38E-05	5.15E-06	1.20E-07	2.67E-02	5.35E-03	1.52E-03	1.39E-05	5.43E-07	1.54E-03	1.44E-02
595034.00	4172583.00	2.29E-02	5.71E-04	1.03E-04	2.39E-05	4.26E-06	1.17E-07	2.36E-02	4.71E-03	1.65E-03	1.40E-05	6.45E-07	1.67E-03	1.56E-02
595034.00	4172603.00	1.98E-02	5.58E-04	1.04E-04	2.40E-05	3.54E-06	1.13E-07	2.05E-02	4.10E-03	1.77E-03	1.41E-05	7.65E-07	1.78E-03	1.66E-02
595042.43	4172281.44	3.20E-02	2.84E-03	7.81E-05	1.79E-05	7.28E-06	2.86E-07	3.49E-02	6.98E-03	1.15E-03	1.05E-05	3.07E-07	1.16E-03	1.08E-02
595042.43	4172301.44	3.43E-02	2.34E-03	8.00E-05	1.84E-05	8.04E-06	2.56E-07	3.67E-02	7.34E-03	1.04E-03	1.08E-05	2.80E-07	1.06E-03	9.85E-03
595042.43	4172321.44	3.64E-02	1.94E-03	8.22E-05	1.89E-05	8.74E-06	2.33E-07	3.84E-02	7.68E-03	9.51E-04	1.11E-05	2.57E-07	9.63E-04	8.98E-03
595042.43	4172341.44	3.82E-02	1.62E-03	8.43E-05	1.93E-05	9.35E-06	2.16E-07	3.99E-02	7.98E-03	8.70E-04	1.14E-05	2.38E-07	8.82E-04	8.22E-03
595054.00	4172463.00	4.20E-02	8.02E-04	1.05E-04	2.42E-05	1.07E-05	1.56E-07	4.29E-02	8.58E-03	8.85E-04	1.42E-05	2.66E-07	9.00E-04	8.39E-03
595054.00	4172483.00	4.01E-02	7.07E-04	1.05E-04	2.43E-05	9.85E-06	1.39E-07	4.10E-02	8.19E-03	9.66E-04	1.42E-05	2.85E-07	9.81E-04	9.14E-03
595054.00	4172503.00	3.83E-02	7.03E-04	1.10E-04	2.54E-05	9.27E-06	1.42E-07	3.91E-02	7.82E-03	1.12E-03	1.49E-05	3.32E-07	1.13E-03	1.05E-02
595054.00	4172523.00	3.58E-02	6.72E-04	1.14E-04	2.63E-05	8.34E-06	1.37E-07	3.66E-02	7.32E-03	1.28E-03	1.54E-05	3.86E-07	1.29E-03	1.20E-02
595054.00	4172543.00	3.27E-02	6.46E-04	1.17E-04	2.69E-05	7.21E-06	1.32E-07	3.35E-02	6.70E-03	1.45E-03	1.58E-05	4.55E-07	1.46E-03	1.36E-02
595054.00	4172563.00	2.93E-02	6.25E-04	1.19E-04	2.75E-05	6.03E-06	1.28E-07	3.00E-02	6.01E-03	1.62E-03	1.62E-05	5.45E-07	1.63E-03	1.52E-02
595054.00	4172583.00	2.57E-02	6.08E-04	1.21E-04	2.80E-05	4.94E-06	1.24E-07	2.65E-02	5.29E-03	1.78E-03	1.65E-05	6.59E-07	1.79E-03	1.67E-02
595054.00	4172603.00	2.22E-02	5.94E-04	1.23E-04	2.84E-05	4.04E-06	1.20E-07	2.29E-02	4.59E-03	1.91E-03	1.67E-05	7.96E-07	1.93E-03	1.80E-02
595062.43	4172201.44	2.21E-02	6.31E-03	7.67E-05	1.76E-05	4.33E-06	5.76E-07	2.85E-02	5.71E-03	1.61E-03	1.03E-05	4.38E-07	1.62E-03	1.51E-02
595062.43	4172221.44	2.48E-02	5.38E-03	7.86E-05	1.80E-05	5.05E-06	4.85E-07	3.03E-02	6.06E-03	1.54E-03	1.06E-05	4.23E-07	1.55E-03	1.45E-02
595062.43	4172241.44	2.76E-02	4.51E-03	8.07E-05	1.85E-05	5.86E-06	4.11E-07	3.22E-02	6.45E-03	1.46E-03	1.09E-05	4.00E-07	1.47E-03	1.37E-02
595062.43	4172261.44	3.05E-02	3.73E-03	8.30E-05	1.90E-05	6.74E-06	3.54E-07	3.44E-02	6.87E-03	1.36E-03	1.12E-05	3.72E-07	1.37E-03	1.28E-02
595062.43	4172281.44	3.34E-02	3.06E-03	8.53E-05	1.96E-05	7.66E-06	3.09E-07	3.65E-02	7.30E-03	1.25E-03	1.15E-05	3.40E-07	1.26E-03	1.17E-02
595062.43	4172301.44	3.61E-02	2.50E-03	8.77E-05	2.01E-05	8.57E-06	2.76E-07	3.87E-02	7.74E-03	1.13E-03	1.18E-05	3.07E-07	1.14E-03	1.07E-02
595062.43	4172321.44	3.86E-02	2.06E-03	9.03E-05	2.07E-05	9.43E-06	2.51E-07	4.07E-02	8.15E-03	1.02E-03	1.21E-05	2.78E-07	1.03E-03	9.62E-03
595062.43	4172341.44	4.07E-02	1.71E-03	9.28E-05	2.13E-05	1.02E-05	2.32E-07	4.26E-02	8.51E-03	9.19E-04	1.25E-05	2.54E-07	9.32E-04	8.69E-03
595074.00	4172423.00	4.73E-02	1.00E-03	1.12E-04	2.57E-05	1.26E-05	1.85E-07	4.85E-02	9.69E-03	7.71E-04	1.51E-05	2.38E-07	7.86E-04	7.33E-03
595074.00	4172443.00	4.71E-02	9.13E-04	1.15E-04	2.65E-05	1.25E-05	1.75E-07	4.82E-02	9.64E-03	8.07E-04	1.55E-05	2.49E-07	8.23E-04	7.67E-03
595074.00	4172463.00	4.64E-02	8.44E-04	1.19E-04	2.74E-05	1.23E-05	1.66E-07	4.74E-02	9.48E-03	8.79E-04	1.61E-05	2.68E-07	8.95E-04	8.35E-03
595074.00	4172483.00	4.50E-02	7.89E-04	1.23E-04	2.83E-05	1.18E-05	1.59E-07	4.60E-02	9.20E-03	9.86E-04	1.66E-05	2.94E-07	1.00E-03	9.35E-03
595074.00	4172503.00	4.29E-02	7.45E-04	1.26E-04	2.91E-05	1.10E-05	1.52E-07	4.38E-02	8.76E-03	1.13E-03	1.71E-05	3.29E-07	1.14E-03	1.07E-02
595074.00	4172523.00	4.03E-02	7.14E-04	1.32E-04	3.04E-05	9.94E-06	1.47E-07	4.12E-02	8.24E-03	1.30E-03	1.78E-05	3.82E-07	1.32E-03	1.23E-02
595074.00	4172543.00	3.70E-02	6.87E-04	1.36E-04	3.13E-05	8.60E-06	1.41E-07	3.78E-02	7.57E-03	1.50E-03	1.84E-05	4.51E-07	1.52E-03	1.42E-02
595074.00	4172563.00	3.31E-02	6.66E-04	1.40E-04	3.23E-05	7.16E-06	1.36E-07	3.40E-02	6.79E-03	1.71E-03	1.89E-05	5.43E-07	1.73E-03	1.61E-02
595074.00	4172583.00	2.91E-02	6.49E-04	1.44E-04	3.33E-05	5.81E-06	1.32E-07	2.99E-02	5.98E-03	1.91E-03	1.95E-05	6.66E-07	1.93E-03	1.80E-02
595074.00	4172603.00	2.50E-02	6.35E-04	1.48E-04	3.43E-05	4.68E-06	1.27E-07	2.59E-02	5.17E-03	2.09E-03	2.01E-05	8.24E-07	2.11E-03	1.96E-02
595082.43	4172141.44	1.51E-02	9.85E-03	7.69E-05	1.77E-05	2.69E-06	1.01E-06	2.50E-02	5.01E-03	1.80E-03	1.04E-05	4.70E-07	1.81E-03	1.68E-02
595082.43	4172161.44	1.72E-02	9.02E-03	7.90E-05	1.82E-05	3.13E-06	8.83E-07	2.63E-02	5.26E-03	1.80E-03	1.07E-05	4.81E-07	1.81E-03	1.69E-02
595082.43	4172181.44	1.96E-02	8.05E-03	8.11E-05	1.86E-05	3.67E-06	7.55E-07	2.77E-02	5.54E-03	1.79E-03	1.09E-05	4.87E-07	1.80E-03	1.68E-02
595082.43	4172201.44	2.22E-02	7.00E-03	8.33E-05	1.91E-05	4.31E-06	6.36E-07	2.93E-02	5.86E-03	1.75E-03	1.12E-05	4.84E-07	1.76E-03	1.65E-02
595082.43	4172221.44	2.51E-02	5.94E-03	8.55E-05	1.96E-05	5.07E-06	5.32E-07	3.12E-02	6.23E-03	1.69E-03	1.15E-05	4.72E-07	1.70E-03	1.59E-02
595082.43	4172241.44	2.82E-02	4.95E-03	8.80E-05	2.02E-05	5.96E-06	4.48E-07	3.33E-02	6.66E-03	1.61E-03	1.18E-05	4.49E-07	1.62E-03	1.51E-02
595082.43	4172261.44	3.15E-02	4.07E-03	9.10E-05	2.09E-05	6.98E-06	3.85E-07	3.57E-02	7.14E-03	1.50E-03	1.22E-05	4.19E-07	1.51E-03	1.41E-02
595082.43	4172281.44	3.48E-02	3.31E-03	9.37E-05	2.15E-05	8.04E-06	3.35E-07	3.82E-02	7.64E-03	1.37E-03	1.26E-05	3.80E-07	1.38E-03	1.29E-02
595082.43	4172301.44	3.79E-02	2.67E-03	9.62E-05	2.21E-05	9.10E-06	2.97E-07	4.07E-02	8.13E-03	1.23E-03	1.29E-05	3.39E-07	1.24E-03	1.16E-02
595082.43	4172321.44	4.06E-02	1.94E-03	9.82E-05	2.25E-05	1.01E-05	2.67E-07	4.27E-02	8.54E-03	1.09E-03	1.32E-05	2.96E-07	1.10E-03	1.03E-02
595082.43	4172341.44	4.34E-02	1.81E-03	1.03E-04	2.35E-05	1.11E-05	2.49E-07	4.54E-02	9.07E-03	9.77E-04	1.38E-05	2.73E-07	9.91E-04	9.24E-03
595094.00	4172423.00	5.18E-02	1.06E-03	1.27E-04	2.91E-05	1.43E-05	1.98E-07	5.30E-02	1.06E-02	7.72E-04	1.71E-05	2.45E-07	7.89E-04	7.36E-03

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595094.00	4172443.00	5.19E-02	9.64E-04	1.32E-04	3.02E-05	1.44E-05	1.87E-07	5.31E-02	1.06E-02	8.01E-04	1.77E-05	2.54E-07	8.19E-04	7.64E-03
595094.00	4172463.00	5.14E-02	8.92E-04	1.37E-04	3.14E-05	1.43E-05	1.78E-07	5.25E-02	1.05E-02	8.69E-04	1.84E-05	2.70E-07	8.87E-04	8.28E-03
595094.00	4172483.00	5.03E-02	8.37E-04	1.42E-04	3.27E-05	1.39E-05	1.70E-07	5.13E-02	1.03E-02	9.77E-04	1.92E-05	2.95E-07	9.96E-04	9.29E-03
595094.00	4172503.00	4.83E-02	7.93E-04	1.48E-04	3.40E-05	1.31E-05	1.63E-07	4.93E-02	9.86E-03	1.13E-03	1.99E-05	3.28E-07	1.15E-03	1.07E-02
595094.00	4172523.00	4.55E-02	7.60E-04	1.54E-04	3.54E-05	1.19E-05	1.56E-07	4.65E-02	9.30E-03	1.32E-03	2.08E-05	3.76E-07	1.34E-03	1.25E-02
595094.00	4172543.00	4.21E-02	7.36E-04	1.62E-04	3.72E-05	1.05E-05	1.51E-07	4.31E-02	8.61E-03	1.56E-03	2.19E-05	4.45E-07	1.58E-03	1.47E-02
595094.00	4172563.00	3.79E-02	7.14E-04	1.69E-04	3.88E-05	8.71E-06	1.46E-07	3.88E-02	7.76E-03	1.81E-03	2.28E-05	5.39E-07	1.83E-03	1.71E-02
595102.43	4172101.44	1.14E-02	1.20E-02	7.85E-05	1.81E-05	1.98E-06	1.38E-06	2.35E-02	4.70E-03	1.88E-03	1.06E-05	4.68E-07	1.89E-03	1.76E-02
595102.43	4172121.44	1.29E-02	1.16E-02	8.08E-05	1.86E-05	2.27E-06	1.27E-06	2.47E-02	4.93E-03	1.90E-03	1.09E-05	4.84E-07	1.91E-03	1.78E-02
595102.43	4172141.44	1.47E-02	1.10E-02	8.30E-05	1.91E-05	2.62E-06	1.14E-06	2.58E-02	5.16E-03	1.92E-03	1.12E-05	5.02E-07	1.93E-03	1.80E-02
595102.43	4172161.44	1.69E-02	1.01E-02	8.59E-05	1.97E-05	3.07E-06	9.93E-07	2.71E-02	5.42E-03	1.94E-03	1.16E-05	5.21E-07	1.95E-03	1.82E-02
595102.43	4172181.44	1.94E-02	8.99E-03	8.83E-05	2.03E-05	3.60E-06	8.45E-07	2.85E-02	5.69E-03	1.94E-03	1.19E-05	5.33E-07	1.95E-03	1.82E-02
595102.43	4172201.44	2.22E-02	7.81E-03	9.10E-05	2.09E-05	4.26E-06	7.07E-07	3.01E-02	6.02E-03	1.92E-03	1.22E-05	5.38E-07	1.93E-03	1.80E-02
595102.43	4172221.44	2.53E-02	6.60E-03	9.38E-05	2.15E-05	5.07E-06	5.88E-07	3.20E-02	6.41E-03	1.87E-03	1.26E-05	5.30E-07	1.88E-03	1.75E-02
595102.43	4172241.44	2.87E-02	5.45E-03	9.66E-05	2.21E-05	6.03E-06	4.91E-07	3.43E-02	6.86E-03	1.78E-03	1.30E-05	5.08E-07	1.79E-03	1.67E-02
595102.43	4172261.44	3.23E-02	4.43E-03	9.95E-05	2.28E-05	7.13E-06	4.15E-07	3.69E-02	7.38E-03	1.66E-03	1.34E-05	4.72E-07	1.67E-03	1.56E-02
595102.43	4172281.44	3.60E-02	3.55E-03	1.03E-04	2.35E-05	8.34E-06	3.59E-07	3.97E-02	7.94E-03	1.51E-03	1.38E-05	4.26E-07	1.52E-03	1.42E-02
595102.43	4172301.44	3.97E-02	2.86E-03	1.06E-04	2.43E-05	9.63E-06	3.20E-07	4.27E-02	8.54E-03	1.35E-03	1.43E-05	3.78E-07	1.36E-03	1.27E-02
595102.43	4172321.44	4.31E-02	2.32E-03	1.10E-04	2.52E-05	1.09E-05	2.90E-07	4.56E-02	9.12E-03	1.19E-03	1.48E-05	3.32E-07	1.20E-03	1.12E-02
595102.43	4172341.44	4.63E-02	1.91E-03	1.14E-04	2.62E-05	1.21E-05	2.68E-07	4.84E-02	9.67E-03	1.05E-03	1.54E-05	2.95E-07	1.06E-03	9.90E-03
595114.00	4172443.00	5.73E-02	1.02E-03	1.52E-04	3.50E-05	1.65E-05	2.01E-07	5.85E-02	1.17E-02	7.94E-04	2.06E-05	2.61E-07	8.15E-04	7.60E-03
595114.00	4172463.00	5.72E-02	9.47E-04	1.60E-04	3.67E-05	1.66E-05	1.91E-07	5.83E-02	1.17E-02	8.55E-04	2.15E-05	2.75E-07	8.77E-04	8.18E-03
595114.00	4172483.00	5.63E-02	8.92E-04	1.67E-04	3.85E-05	1.64E-05	1.83E-07	5.74E-02	1.15E-02	9.61E-04	2.26E-05	2.97E-07	9.84E-04	9.17E-03
595114.00	4172503.00	5.47E-02	8.50E-04	1.77E-04	4.07E-05	1.58E-05	1.76E-07	5.58E-02	1.12E-02	1.12E-03	2.39E-05	3.30E-07	1.14E-03	1.07E-02
595122.43	4172101.44	1.10E-02	1.33E-02	8.49E-05	1.96E-05	1.94E-06	1.55E-06	2.44E-02	4.87E-03	1.99E-03	1.15E-05	4.95E-07	2.00E-03	1.86E-02
595122.43	4172121.44	1.25E-02	1.29E-02	8.75E-05	2.01E-05	2.21E-06	1.44E-06	2.56E-02	5.11E-03	2.01E-03	1.18E-05	5.14E-07	2.02E-03	1.89E-02
595122.43	4172141.44	1.43E-02	1.23E-02	9.04E-05	2.08E-05	2.55E-06	1.29E-06	2.67E-02	5.34E-03	2.05E-03	1.22E-05	5.37E-07	2.06E-03	1.92E-02
595122.43	4172161.44	1.65E-02	1.13E-02	9.35E-05	2.15E-05	2.98E-06	1.12E-06	2.79E-02	5.59E-03	2.08E-03	1.26E-05	5.61E-07	2.09E-03	1.95E-02
595122.43	4172181.44	1.91E-02	1.01E-02	9.67E-05	2.22E-05	3.52E-06	9.52E-07	2.93E-02	5.86E-03	2.10E-03	1.30E-05	5.84E-07	2.12E-03	1.97E-02
595122.43	4172201.44	2.20E-02	8.76E-03	9.99E-05	2.29E-05	4.19E-06	7.91E-07	3.09E-02	6.18E-03	2.10E-03	1.34E-05	5.98E-07	2.12E-03	1.97E-02
595122.43	4172221.44	2.53E-02	7.36E-03	1.03E-04	2.36E-05	5.02E-06	6.51E-07	3.28E-02	6.57E-03	2.06E-03	1.39E-05	5.97E-07	2.08E-03	1.94E-02
595122.43	4172241.44	2.91E-02	6.04E-03	1.07E-04	2.44E-05	6.05E-06	5.39E-07	3.53E-02	7.05E-03	1.98E-03	1.43E-05	5.78E-07	2.00E-03	1.86E-02
595122.43	4172261.44	3.31E-02	4.86E-03	1.10E-04	2.53E-05	7.28E-06	4.54E-07	3.81E-02	7.63E-03	1.85E-03	1.48E-05	5.40E-07	1.87E-03	1.74E-02
595122.43	4172281.44	3.75E-02	3.89E-03	1.15E-04	2.64E-05	8.72E-06	3.95E-07	4.15E-02	8.30E-03	1.69E-03	1.55E-05	4.91E-07	1.71E-03	1.59E-02
595122.43	4172301.44	4.17E-02	3.09E-03	1.19E-04	2.74E-05	1.02E-05	3.50E-07	4.49E-02	8.98E-03	1.50E-03	1.61E-05	4.30E-07	1.52E-03	1.42E-02
595122.43	4172321.44	4.57E-02	2.48E-03	1.24E-04	2.84E-05	1.17E-05	3.16E-07	4.83E-02	9.67E-03	1.31E-03	1.67E-05	3.72E-07	1.33E-03	1.24E-02
595122.43	4172341.44	4.94E-02	2.03E-03	1.29E-04	2.96E-05	1.32E-05	2.90E-07	5.16E-02	1.03E-02	1.13E-03	1.73E-05	3.23E-07	1.15E-03	1.07E-02
595134.00	4172443.00	6.34E-02	1.09E-03	1.81E-04	4.15E-05	1.92E-05	2.18E-07	6.47E-02	1.29E-02	7.89E-04	2.44E-05	2.71E-07	8.14E-04	7.59E-03
595142.43	4172101.44	1.06E-02	1.47E-02	9.25E-05	2.13E-05	1.90E-06	1.76E-06	2.54E-02	5.07E-03	2.11E-03	1.25E-05	5.26E-07	2.12E-03	1.98E-02
595142.43	4172121.44	1.21E-02	1.44E-02	9.58E-05	2.20E-05	2.16E-06	1.64E-06	2.67E-02	5.33E-03	2.14E-03	1.29E-05	5.46E-07	2.15E-03	2.01E-02
595142.43	4172141.44	1.39E-02	1.38E-02	9.93E-05	2.28E-05	2.49E-06	1.47E-06	2.78E-02	5.57E-03	2.18E-03	1.34E-05	5.73E-07	2.20E-03	2.05E-02
595142.43	4172161.44	1.61E-02	1.28E-02	1.03E-04	2.36E-05	2.91E-06	1.28E-06	2.90E-02	5.80E-03	2.24E-03	1.39E-05	6.05E-07	2.25E-03	2.10E-02
595142.43	4172181.44	1.86E-02	1.14E-02	1.07E-04	2.45E-05	3.43E-06	1.08E-06	3.02E-02	6.04E-03	2.28E-03	1.44E-05	6.38E-07	2.30E-03	2.14E-02
595142.43	4172201.44	2.17E-02	9.90E-03	1.11E-04	2.54E-05	4.10E-06	8.91E-07	3.17E-02	6.35E-03	2.31E-03	1.49E-05	6.65E-07	2.32E-03	2.17E-02
595142.43	4172221.44	2.52E-02	8.28E-03	1.15E-04	2.62E-05	4.95E-06	7.26E-07	3.36E-02	6.73E-03	2.29E-03	1.54E-05	6.76E-07	2.30E-03	2.15E-02
595142.43	4172241.44	2.93E-02	6.75E-03	1.19E-04	2.74E-05	6.05E-06	5.98E-07	3.62E-02	7.24E-03	2.22E-03	1.61E-05	6.66E-07	2.24E-03	2.09E-02
595142.43	4172261.44	3.39E-02	5.39E-03	1.25E-04	2.85E-05	7.40E-06	5.02E-07	3.94E-02	7.88E-03	2.09E-03	1.67E-05	6.30E-07	2.11E-03	1.97E-02
595142.43	4172281.44	3.87E-02	4.25E-03	1.30E-04	2.98E-05	9.02E-06	4.33E-07	4.31E-02	8.63E-03	1.91E-03	1.75E-05	5.71E-07	1.93E-03	1.80E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595142.43	4172301.44	4.36E-02	3.34E-03	1.36E-04	3.11E-05	1.08E-05	3.83E-07	4.72E-02	9.43E-03	1.69E-03	1.83E-05	4.97E-07	1.71E-03	1.59E-02
595142.43	4172321.44	4.85E-02	2.67E-03	1.42E-04	3.26E-05	1.27E-05	3.46E-07	5.14E-02	1.03E-02	1.46E-03	1.91E-05	4.24E-07	1.48E-03	1.38E-02
595142.43	4172341.44	5.30E-02	2.17E-03	1.49E-04	3.42E-05	1.45E-05	3.17E-07	5.54E-02	1.11E-02	1.24E-03	2.01E-05	3.62E-07	1.26E-03	1.18E-02
595146.24	4171970.65	5.03E-03	9.67E-03	6.93E-05	1.60E-05	9.55E-07	1.43E-06	1.48E-02	2.96E-03	1.87E-03	9.41E-06	3.97E-07	1.88E-03	1.75E-02
595146.24	4171990.65	5.55E-03	1.07E-02	7.34E-05	1.70E-05	1.04E-06	1.57E-06	1.64E-02	3.28E-03	1.95E-03	9.96E-06	4.25E-07	1.96E-03	1.83E-02
595158.78	4172948.61	3.62E-03	4.30E-04	2.03E-05	4.81E-06	1.03E-06	7.07E-08	4.07E-03	8.14E-04	4.65E-03	2.82E-06	4.25E-06	4.66E-03	4.34E-02
595162.43	4172201.44	2.12E-02	1.13E-02	1.24E-04	2.84E-05	4.00E-06	1.01E-06	3.27E-02	6.54E-03	2.53E-03	1.66E-05	7.40E-07	2.55E-03	2.38E-02
595162.43	4172221.44	2.49E-02	9.37E-03	1.29E-04	2.95E-05	4.84E-06	8.16E-07	3.45E-02	6.89E-03	2.55E-03	1.73E-05	7.68E-07	2.57E-03	2.39E-02
595162.43	4172241.44	2.94E-02	7.60E-03	1.36E-04	3.10E-05	5.99E-06	6.68E-07	3.71E-02	7.43E-03	2.51E-03	1.82E-05	7.74E-07	2.53E-03	2.35E-02
595162.43	4172281.44	3.98E-02	4.65E-03	1.48E-04	3.40E-05	9.23E-06	4.76E-07	4.47E-02	8.93E-03	2.18E-03	2.00E-05	6.73E-07	2.20E-03	2.05E-02
595162.43	4172301.44	4.56E-02	3.62E-03	1.57E-04	3.59E-05	1.14E-05	4.21E-07	4.94E-02	9.89E-03	1.92E-03	2.10E-05	5.85E-07	1.94E-03	1.81E-02
595162.43	4172321.44	5.14E-02	2.86E-03	1.65E-04	3.78E-05	1.37E-05	3.80E-07	5.44E-02	1.09E-02	1.65E-03	2.22E-05	4.91E-07	1.67E-03	1.56E-02
595162.43	4172341.44	5.68E-02	2.32E-03	1.75E-04	4.01E-05	1.60E-05	3.47E-07	5.93E-02	1.19E-02	1.38E-03	2.35E-05	4.10E-07	1.40E-03	1.31E-02
595166.24	4171930.65	4.08E-03	7.66E-03	6.37E-05	1.47E-05	8.11E-07	1.18E-06	1.18E-02	2.36E-03	1.72E-03	8.64E-06	3.43E-07	1.73E-03	1.62E-02
595166.24	4171950.65	4.45E-03	8.71E-03	6.87E-05	1.59E-05	8.77E-07	1.33E-06	1.32E-02	2.65E-03	1.86E-03	9.33E-06	3.79E-07	1.87E-03	1.74E-02
595166.24	4171970.65	4.86E-03	9.83E-03	7.34E-05	1.70E-05	9.48E-07	1.49E-06	1.48E-02	2.96E-03	1.98E-03	9.96E-06	4.14E-07	1.99E-03	1.85E-02
595166.24	4171990.65	5.35E-03	1.10E-02	7.82E-05	1.81E-05	1.03E-06	1.65E-06	1.65E-02	3.30E-03	2.08E-03	1.06E-05	4.48E-07	2.09E-03	1.95E-02
595186.24	4171890.65	3.38E-03	5.78E-03	5.57E-05	1.29E-05	6.99E-07	9.06E-07	9.23E-03	1.85E-03	1.46E-03	7.55E-06	2.76E-07	1.47E-03	1.37E-02
595186.24	4171910.65	3.65E-03	6.63E-03	6.10E-05	1.41E-05	7.50E-07	1.04E-06	1.04E-02	2.07E-03	1.63E-03	8.28E-06	3.12E-07	1.63E-03	1.52E-02
595186.24	4171930.65	3.95E-03	7.61E-03	6.67E-05	1.54E-05	8.07E-07	1.19E-06	1.16E-02	2.33E-03	1.79E-03	9.05E-06	3.50E-07	1.80E-03	1.68E-02
595186.24	4171950.65	4.30E-03	8.72E-03	7.24E-05	1.67E-05	8.72E-07	1.36E-06	1.31E-02	2.62E-03	1.95E-03	9.83E-06	3.91E-07	1.96E-03	1.83E-02
595186.24	4171970.65	4.70E-03	9.95E-03	7.81E-05	1.81E-05	9.44E-07	1.54E-06	1.47E-02	2.95E-03	2.10E-03	1.06E-05	4.32E-07	2.11E-03	1.97E-02
595186.24	4171990.65	5.16E-03	1.13E-02	8.38E-05	1.94E-05	1.03E-06	1.73E-06	1.66E-02	3.31E-03	2.22E-03	1.14E-05	4.72E-07	2.23E-03	2.08E-02
595203.12	4172931.43	4.64E-03	4.82E-04	2.81E-05	6.49E-06	1.32E-06	7.92E-08	5.16E-03	1.03E-03	1.90E-02	3.81E-06	8.09E-06	1.90E-02	1.77E-01
595206.24	4171870.65	3.06E-03	4.88E-03	5.19E-05	1.20E-05	6.49E-07	7.78E-07	8.01E-03	1.60E-03	1.31E-03	7.02E-06	2.43E-07	1.32E-03	1.23E-02
595206.24	4171890.65	3.29E-03	5.63E-03	5.75E-05	1.33E-05	6.95E-07	8.99E-07	8.99E-03	1.80E-03	1.48E-03	7.79E-06	2.76E-07	1.49E-03	1.39E-02
595206.24	4171910.65	3.55E-03	6.49E-03	6.34E-05	1.46E-05	7.46E-07	1.04E-06	1.01E-02	2.02E-03	1.67E-03	8.59E-06	3.14E-07	1.68E-03	1.56E-02
595206.24	4171930.65	3.84E-03	7.51E-03	6.99E-05	1.61E-05	8.04E-07	1.20E-06	1.14E-02	2.29E-03	1.86E-03	9.47E-06	3.56E-07	1.87E-03	1.75E-02
595206.24	4171950.65	4.17E-03	8.67E-03	7.65E-05	1.77E-05	8.68E-07	1.39E-06	1.29E-02	2.59E-03	2.05E-03	1.04E-05	4.02E-07	2.06E-03	1.92E-02
595206.24	4171970.65	4.55E-03	1.00E-02	8.32E-05	1.92E-05	9.40E-07	1.59E-06	1.46E-02	2.93E-03	2.23E-03	1.13E-05	4.49E-07	2.24E-03	2.09E-02
595206.24	4171990.65	4.99E-03	1.15E-02	9.00E-05	2.08E-05	1.02E-06	1.81E-06	1.66E-02	3.32E-03	2.38E-03	1.22E-05	4.97E-07	2.39E-03	2.23E-02
595207.62	4172857.58	6.17E-03	5.59E-04	5.38E-05	1.24E-05	1.87E-06	9.20E-08	6.80E-03	1.36E-03	1.47E-02	7.28E-06	1.90E-05	1.47E-02	1.38E-01
595216.89	4172907.31	5.34E-03	5.17E-04	3.53E-05	8.11E-06	1.53E-06	8.45E-08	5.91E-03	1.18E-03	2.32E-02	4.76E-06	9.39E-06	2.33E-02	2.17E-01
595226.24	4171850.65	2.79E-03	4.08E-03	4.76E-05	1.09E-05	6.01E-07	6.60E-07	6.93E-03	1.39E-03	1.14E-03	6.42E-06	2.11E-07	1.15E-03	1.07E-02
595226.24	4171870.65	2.99E-03	4.71E-03	5.33E-05	1.23E-05	6.45E-07	7.65E-07	7.77E-03	1.55E-03	1.31E-03	7.20E-06	2.41E-07	1.32E-03	1.23E-02
595226.24	4171890.65	3.21E-03	5.45E-03	5.93E-05	1.37E-05	6.91E-07	8.87E-07	8.73E-03	1.75E-03	1.50E-03	8.02E-06	2.75E-07	1.51E-03	1.41E-02
595226.24	4171910.65	3.46E-03	6.32E-03	6.59E-05	1.52E-05	7.41E-07	1.03E-06	9.86E-03	1.97E-03	1.71E-03	8.93E-06	3.15E-07	1.71E-03	1.60E-02
595226.24	4171930.65	3.73E-03	7.35E-03	7.31E-05	1.69E-05	7.98E-07	1.20E-06	1.12E-02	2.24E-03	1.93E-03	9.90E-06	3.61E-07	1.94E-03	1.81E-02
595226.24	4171950.65	4.05E-03	8.56E-03	8.07E-05	1.86E-05	8.61E-07	1.40E-06	1.27E-02	2.54E-03	2.15E-03	1.09E-05	4.11E-07	2.16E-03	2.01E-02
595226.24	4171970.65	4.41E-03	9.97E-03	8.87E-05	2.05E-05	9.34E-07	1.63E-06	1.45E-02	2.90E-03	2.36E-03	1.20E-05	4.66E-07	2.38E-03	2.22E-02
595229.35	4172793.73	9.97E-03	6.73E-04	2.07E-04	4.73E-05	3.11E-06	1.11E-07	1.09E-02	2.18E-03	1.51E-02	2.78E-05	1.81E-05	1.51E-02	1.41E-01
595229.53	4172979.48	4.41E-03	4.67E-04	2.26E-05	5.16E-06	1.17E-06	7.53E-08	4.90E-03	9.81E-04	1.00E-02	3.03E-06	2.08E-06	1.00E-02	9.33E-02
595234.00	4172863.00	7.02E-03	5.85E-04	5.86E-05	1.33E-05	2.07E-06	9.57E-08	7.68E-03	1.54E-03	2.18E-02	7.83E-06	1.03E-05	2.18E-02	2.03E-01
595234.00	4172883.00	6.45E-03	5.62E-04	4.73E-05	1.08E-05	1.86E-06	9.17E-08	7.07E-03	1.41E-03	2.07E-02	6.33E-06	8.82E-06	2.07E-02	1.93E-01
595234.00	4172903.00	5.95E-03	5.41E-04	3.94E-05	8.98E-06	1.68E-06	8.80E-08	6.54E-03	1.31E-03	2.06E-02	5.27E-06	7.21E-06	2.06E-02	1.92E-01
595246.24	4171830.65	2.56E-03	3.42E-03	4.33E-05	9.93E-06	5.60E-07	5.62E-07	6.03E-03	1.21E-03	9.73E-04	5.83E-06	1.83E-07	9.79E-04	9.13E-03
595246.24	4171850.65	2.74E-03	3.93E-03	4.87E-05	1.12E-05	5.98E-07	6.47E-07	6.72E-03	1.34E-03	1.13E-03	6.56E-06	2.08E-07	1.13E-03	1.06E-02
595246.24	4171870.65	2.93E-03	4.53E-03	5.46E-05	1.26E-05	6.39E-07	7.49E-07	7.52E-03	1.50E-03	1.30E-03	7.37E-06	2.38E-07	1.31E-03	1.22E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595246.24	4171890.65	3.14E-03	5.25E-03	6.12E-05	1.41E-05	6.85E-07	8.72E-07	8.46E-03	1.69E-03	1.51E-03	8.26E-06	2.73E-07	1.51E-03	1.41E-02
595246.24	4171910.65	3.37E-03	6.12E-03	6.85E-05	1.58E-05	7.36E-07	1.02E-06	9.58E-03	1.92E-03	1.74E-03	9.27E-06	3.15E-07	1.75E-03	1.63E-02
595246.24	4171930.65	3.64E-03	7.17E-03	7.68E-05	1.77E-05	7.94E-07	1.20E-06	1.09E-02	2.18E-03	1.99E-03	1.04E-05	3.64E-07	2.00E-03	1.86E-02
595246.24	4171950.65	3.94E-03	8.41E-03	8.55E-05	1.97E-05	8.57E-07	1.41E-06	1.25E-02	2.49E-03	2.25E-03	1.16E-05	4.20E-07	2.26E-03	2.11E-02
595246.24	4171970.65	4.29E-03	9.90E-03	9.53E-05	2.20E-05	9.32E-07	1.66E-06	1.43E-02	2.86E-03	2.51E-03	1.29E-05	4.82E-07	2.53E-03	2.35E-02
595251.41	4172717.21	3.04E-02	8.53E-04	6.38E-04	1.46E-04	7.33E-06	1.42E-07	3.21E-02	6.41E-03	1.58E-02	8.57E-05	1.62E-05	1.59E-02	1.48E-01
595254.00	4172823.00	9.88E-03	6.68E-04	1.07E-04	2.43E-05	2.97E-06	1.09E-07	1.07E-02	2.14E-03	2.21E-02	1.43E-05	9.23E-06	2.21E-02	2.06E-01
595254.00	4172843.00	8.84E-03	6.40E-04	7.97E-05	1.81E-05	2.59E-06	1.04E-07	9.58E-03	1.92E-03	2.02E-02	1.06E-05	8.29E-06	2.02E-02	1.89E-01
595254.00	4172863.00	7.99E-03	6.13E-04	6.22E-05	1.41E-05	2.29E-06	9.96E-08	8.68E-03	1.74E-03	1.80E-02	8.28E-06	7.33E-06	1.80E-02	1.68E-01
595254.00	4172883.00	7.29E-03	5.89E-04	5.05E-05	1.14E-05	2.04E-06	9.55E-08	7.95E-03	1.59E-03	1.65E-02	6.71E-06	6.32E-06	1.65E-02	1.54E-01
595254.00	4172903.00	6.70E-03	5.67E-04	4.20E-05	9.52E-06	1.83E-06	9.16E-08	7.32E-03	1.46E-03	1.71E-02	5.59E-06	5.23E-06	1.71E-02	1.60E-01
595254.00	4172923.00	6.18E-03	5.47E-04	3.58E-05	8.11E-06	1.66E-06	8.81E-08	6.77E-03	1.35E-03	2.27E-02	4.76E-06	4.13E-06	2.27E-02	2.12E-01
595259.54	4172956.67	5.59E-03	5.22E-04	2.86E-05	6.47E-06	1.45E-06	8.34E-08	6.15E-03	1.23E-03	2.12E-02	3.80E-06	2.46E-06	2.12E-02	1.98E-01
595266.24	4171810.65	2.36E-03	2.87E-03	3.89E-05	8.88E-06	5.21E-07	4.80E-07	5.28E-03	1.06E-03	8.18E-04	5.21E-06	1.59E-07	8.24E-04	7.68E-03
595266.24	4171830.65	2.51E-03	3.26E-03	4.37E-05	1.00E-05	5.54E-07	5.46E-07	5.82E-03	1.16E-03	9.47E-04	5.87E-06	1.79E-07	9.53E-04	8.88E-03
595266.24	4171850.65	2.68E-03	3.75E-03	4.95E-05	1.13E-05	5.92E-07	6.31E-07	6.49E-03	1.30E-03	1.10E-03	6.66E-06	2.04E-07	1.11E-03	1.04E-02
595266.24	4171870.65	2.86E-03	4.32E-03	5.58E-05	1.28E-05	6.32E-07	7.31E-07	7.25E-03	1.45E-03	1.29E-03	7.51E-06	2.34E-07	1.30E-03	1.21E-02
595266.24	4171890.65	3.06E-03	5.03E-03	6.29E-05	1.45E-05	6.78E-07	8.54E-07	8.17E-03	1.63E-03	1.50E-03	8.49E-06	2.70E-07	1.51E-03	1.41E-02
595266.24	4171910.65	3.29E-03	5.89E-03	7.12E-05	1.64E-05	7.30E-07	1.01E-06	9.28E-03	1.86E-03	1.76E-03	9.61E-06	3.14E-07	1.77E-03	1.65E-02
595266.24	4171930.65	3.55E-03	6.93E-03	8.03E-05	1.85E-05	7.86E-07	1.19E-06	1.06E-02	2.12E-03	2.04E-03	1.09E-05	3.65E-07	2.05E-03	1.91E-02
595266.24	4171950.65	3.84E-03	8.19E-03	9.05E-05	2.08E-05	8.50E-07	1.41E-06	1.21E-02	2.43E-03	2.34E-03	1.22E-05	4.25E-07	2.35E-03	2.19E-02
595266.24	4171970.65	4.17E-03	9.72E-03	1.02E-04	2.35E-05	9.24E-07	1.68E-06	1.40E-02	2.80E-03	2.66E-03	1.38E-05	4.95E-07	2.67E-03	2.49E-02
595271.59	4172931.11	6.64E-03	5.63E-04	3.51E-05	7.92E-06	1.72E-06	8.97E-08	7.25E-03	1.45E-03	2.13E-02	4.65E-06	3.06E-06	2.13E-02	1.99E-01
595274.00	4172783.00	1.56E-02	7.72E-04	1.88E-04	4.29E-05	4.61E-06	1.26E-07	1.66E-02	3.33E-03	2.23E-02	2.52E-05	7.91E-06	2.24E-02	2.08E-01
595274.00	4172803.00	1.33E-02	7.36E-04	1.37E-04	3.13E-05	3.88E-06	1.20E-07	1.42E-02	2.83E-03	1.99E-02	1.83E-05	7.34E-06	2.00E-02	1.86E-01
595274.00	4172823.00	1.16E-02	7.03E-04	1.03E-04	2.34E-05	3.32E-06	1.14E-07	1.24E-02	2.48E-03	1.76E-02	1.37E-05	6.74E-06	1.76E-02	1.64E-01
595274.00	4172843.00	1.03E-02	6.74E-04	8.00E-05	1.81E-05	2.90E-06	1.09E-07	1.11E-02	2.22E-03	1.57E-02	1.06E-05	6.12E-06	1.57E-02	1.46E-01
595274.00	4172863.00	9.23E-03	6.46E-04	6.37E-05	1.44E-05	2.53E-06	1.04E-07	9.96E-03	1.99E-03	1.40E-02	8.45E-06	5.47E-06	1.40E-02	1.30E-01
595274.00	4172883.00	8.36E-03	6.20E-04	5.23E-05	1.18E-05	2.24E-06	9.95E-08	9.05E-03	1.81E-03	1.33E-02	6.93E-06	4.77E-06	1.33E-02	1.24E-01
595274.00	4172903.00	7.63E-03	5.97E-04	4.39E-05	9.91E-06	2.01E-06	9.54E-08	8.28E-03	1.66E-03	1.43E-02	5.81E-06	4.02E-06	1.43E-02	1.33E-01
595274.00	4172923.00	6.99E-03	5.75E-04	3.75E-05	8.46E-06	1.81E-06	9.16E-08	7.61E-03	1.52E-03	1.82E-02	4.96E-06	3.27E-06	1.82E-02	1.70E-01
595276.16	4172654.64	1.04E-01	1.09E-03	6.31E-04	1.44E-04	3.06E-05	1.82E-07	1.06E-01	2.13E-02	1.87E-02	8.47E-05	2.55E-06	1.88E-02	1.75E-01
595286.24	4171790.65	2.18E-03	2.42E-03	3.45E-05	7.86E-06	4.86E-07	4.14E-07	4.65E-03	9.30E-04	6.84E-04	4.61E-06	1.39E-07	6.88E-04	6.42E-03
595286.24	4171810.65	2.31E-03	2.73E-03	3.89E-05	8.87E-06	5.14E-07	4.66E-07	5.09E-03	1.02E-03	7.88E-04	5.21E-06	1.55E-07	7.93E-04	7.40E-03
595286.24	4171830.65	2.46E-03	3.10E-03	4.41E-05	1.01E-05	5.47E-07	5.32E-07	5.62E-03	1.12E-03	9.17E-04	5.91E-06	1.75E-07	9.23E-04	8.61E-03
595286.24	4171850.65	2.62E-03	3.57E-03	5.02E-05	1.15E-05	5.86E-07	6.15E-07	6.25E-03	1.25E-03	1.08E-03	6.74E-06	2.00E-07	1.08E-03	1.01E-02
595286.24	4171870.65	2.80E-03	4.12E-03	5.70E-05	1.31E-05	6.26E-07	7.13E-07	6.99E-03	1.40E-03	1.27E-03	7.67E-06	2.30E-07	1.27E-03	1.19E-02
595286.24	4171890.65	2.99E-03	4.80E-03	6.48E-05	1.49E-05	6.71E-07	8.35E-07	7.88E-03	1.58E-03	1.49E-03	8.73E-06	2.66E-07	1.50E-03	1.40E-02
595286.24	4171910.65	3.21E-03	5.63E-03	7.36E-05	1.69E-05	7.21E-07	9.84E-07	8.94E-03	1.79E-03	1.76E-03	9.93E-06	3.10E-07	1.77E-03	1.65E-02
595286.24	4171930.65	3.46E-03	6.66E-03	8.39E-05	1.93E-05	7.77E-07	1.17E-06	1.02E-02	2.05E-03	2.07E-03	1.13E-05	3.64E-07	2.08E-03	1.94E-02
595286.24	4171950.65	3.74E-03	7.93E-03	9.58E-05	2.20E-05	8.42E-07	1.40E-06	1.18E-02	2.36E-03	2.42E-03	1.29E-05	4.29E-07	2.44E-03	2.27E-02
595293.61	4172706.67	7.34E-02	9.89E-04	3.45E-04	7.90E-05	1.24E-05	1.62E-07	7.48E-02	1.50E-02	2.51E-02	4.63E-05	5.81E-06	2.51E-02	2.34E-01
595294.00	4172743.00	3.17E-02	9.01E-04	2.52E-04	5.76E-05	7.75E-06	1.47E-07	3.30E-02	6.59E-03	2.18E-02	3.38E-05	6.25E-06	2.18E-02	2.03E-01
595294.00	4172763.00	2.37E-02	8.58E-04	2.02E-04	4.62E-05	6.28E-06	1.39E-07	2.48E-02	4.96E-03	1.96E-02	2.71E-05	6.10E-06	1.96E-02	1.83E-01
595294.00	4172803.00	1.60E-02	7.78E-04	1.22E-04	2.79E-05	4.32E-06	1.25E-07	1.69E-02	3.38E-03	1.51E-02	1.64E-05	5.52E-06	1.51E-02	1.41E-01
595294.00	4172823.00	1.38E-02	7.44E-04	9.65E-05	2.20E-05	3.69E-06	1.19E-07	1.47E-02	2.94E-03	1.34E-02	1.29E-05	5.14E-06	1.35E-02	1.25E-01
595294.00	4172843.00	1.22E-02	7.13E-04	7.78E-05	1.76E-05	3.20E-06	1.14E-07	1.30E-02	2.61E-03	1.22E-02	1.04E-05	4.72E-06	1.22E-02	1.14E-01
595294.00	4172863.00	1.09E-02	6.84E-04	6.38E-05	1.44E-05	2.80E-06	1.09E-07	1.17E-02	2.34E-03	1.13E-02	8.47E-06	4.25E-06	1.13E-02	1.06E-01

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595294.00	4172883.00	9.75E-03	6.56E-04	5.30E-05	1.20E-05	2.46E-06	1.04E-07	1.05E-02	2.09E-03	1.10E-02	7.02E-06	3.74E-06	1.10E-02	1.03E-01
595294.00	4172903.00	8.79E-03	6.30E-04	4.49E-05	1.01E-05	2.19E-06	9.94E-08	9.48E-03	1.90E-03	1.18E-02	5.93E-06	3.20E-06	1.18E-02	1.10E-01
595294.00	4172923.00	7.97E-03	6.06E-04	3.85E-05	8.67E-06	1.96E-06	9.52E-08	8.63E-03	1.73E-03	1.35E-02	5.09E-06	2.67E-06	1.35E-02	1.26E-01
595294.00	4173023.00	5.28E-03	5.07E-04	2.11E-05	4.73E-06	1.22E-06	7.81E-08	5.81E-03	1.16E-03	3.59E-03	2.78E-06	9.60E-07	3.60E-03	3.35E-02
595294.00	4173043.00	4.92E-03	4.91E-04	1.91E-05	4.30E-06	1.13E-06	7.53E-08	5.44E-03	1.09E-03	2.67E-03	2.52E-06	7.96E-07	2.67E-03	2.49E-02
595294.00	4173063.00	4.60E-03	4.75E-04	1.75E-05	3.92E-06	1.05E-06	7.27E-08	5.10E-03	1.02E-03	2.05E-03	2.30E-06	6.65E-07	2.05E-03	1.91E-02
595305.29	4173022.49	5.61E-03	5.21E-04	2.15E-05	4.83E-06	1.27E-06	7.96E-08	6.16E-03	1.23E-03	3.45E-03	2.83E-06	9.30E-07	3.45E-03	3.22E-02
595306.24	4171790.65	2.14E-03	2.31E-03	3.43E-05	7.80E-06	4.80E-07	4.04E-07	4.49E-03	8.98E-04	6.55E-04	4.58E-06	1.36E-07	6.60E-04	6.15E-03
595306.24	4171810.65	2.27E-03	2.61E-03	3.91E-05	8.90E-06	5.11E-07	4.59E-07	4.93E-03	9.86E-04	7.60E-04	5.22E-06	1.52E-07	7.65E-04	7.14E-03
595306.24	4171830.65	2.41E-03	2.96E-03	4.45E-05	1.02E-05	5.43E-07	5.21E-07	5.43E-03	1.09E-03	8.86E-04	5.96E-06	1.72E-07	8.93E-04	8.32E-03
595306.24	4171850.65	2.57E-03	3.39E-03	5.08E-05	1.16E-05	5.79E-07	6.00E-07	6.02E-03	1.20E-03	1.04E-03	6.82E-06	1.96E-07	1.05E-03	9.79E-03
595306.24	4171870.65	2.74E-03	3.92E-03	5.81E-05	1.33E-05	6.19E-07	6.96E-07	6.73E-03	1.35E-03	1.24E-03	7.81E-06	2.25E-07	1.24E-03	1.16E-02
595306.24	4171890.65	2.93E-03	4.57E-03	6.65E-05	1.53E-05	6.63E-07	8.15E-07	7.58E-03	1.52E-03	1.47E-03	8.96E-06	2.61E-07	1.48E-03	1.38E-02
595306.24	4171910.65	3.14E-03	5.37E-03	7.63E-05	1.75E-05	7.13E-07	9.65E-07	8.61E-03	1.72E-03	1.75E-03	1.03E-05	3.05E-07	1.77E-03	1.65E-02
595314.00	4172743.00	4.15E-02	9.57E-04	2.03E-04	4.63E-05	8.47E-06	1.53E-07	4.27E-02	8.54E-03	1.68E-02	2.72E-05	4.64E-06	1.68E-02	1.57E-01
595314.00	4172763.00	3.02E-02	9.10E-04	1.67E-04	3.82E-05	6.84E-06	1.45E-07	3.13E-02	6.26E-03	1.48E-02	2.24E-05	4.63E-06	1.48E-02	1.38E-01
595314.00	4172803.00	2.00E-02	8.27E-04	1.10E-04	2.52E-05	4.74E-06	1.31E-07	2.09E-02	4.19E-03	1.18E-02	1.48E-05	4.30E-06	1.18E-02	1.10E-01
595314.00	4172863.00	1.30E-02	7.25E-04	6.24E-05	1.41E-05	3.04E-06	1.14E-07	1.38E-02	2.76E-03	9.35E-03	8.29E-06	3.40E-06	9.36E-03	8.73E-02
595314.00	4172883.00	1.14E-02	6.93E-04	5.26E-05	1.19E-05	2.66E-06	1.08E-07	1.22E-02	2.44E-03	9.19E-03	6.96E-06	3.02E-06	9.20E-03	8.57E-02
595314.00	4172903.00	1.02E-02	6.65E-04	4.50E-05	1.01E-05	2.36E-06	1.03E-07	1.09E-02	2.18E-03	9.52E-03	5.95E-06	2.62E-06	9.53E-03	8.89E-02
595314.00	4172923.00	9.17E-03	6.39E-04	3.90E-05	8.77E-06	2.10E-06	9.89E-08	9.86E-03	1.97E-03	9.85E-03	5.15E-06	2.23E-06	9.86E-03	9.19E-02
595314.00	4172943.00	8.32E-03	6.16E-04	3.42E-05	7.68E-06	1.89E-06	9.48E-08	8.98E-03	1.80E-03	9.21E-03	4.50E-06	1.87E-06	9.22E-03	8.59E-02
595314.00	4172963.00	7.57E-03	5.92E-04	3.01E-05	6.77E-06	1.71E-06	9.09E-08	8.20E-03	1.64E-03	7.53E-03	3.97E-06	1.55E-06	7.53E-03	7.02E-02
595314.00	4172983.00	6.93E-03	5.71E-04	2.69E-05	6.03E-06	1.55E-06	8.73E-08	7.53E-03	1.51E-03	5.75E-03	3.54E-06	1.29E-06	5.76E-03	5.37E-02
595314.00	4173003.00	6.39E-03	5.51E-04	2.42E-05	5.42E-06	1.42E-06	8.41E-08	6.97E-03	1.39E-03	4.36E-03	3.18E-06	1.08E-06	4.36E-03	4.07E-02
595314.00	4173023.00	5.88E-03	5.31E-04	2.17E-05	4.87E-06	1.30E-06	8.06E-08	6.43E-03	1.29E-03	3.29E-03	2.86E-06	9.01E-07	3.29E-03	3.07E-02
595314.00	4173043.00	5.45E-03	5.13E-04	1.98E-05	4.43E-06	1.20E-06	7.77E-08	5.99E-03	1.20E-03	2.55E-03	2.60E-06	7.60E-07	2.55E-03	2.38E-02
595314.00	4173063.00	5.07E-03	4.96E-04	1.81E-05	4.04E-06	1.11E-06	7.49E-08	5.59E-03	1.12E-03	2.01E-03	2.37E-06	6.45E-07	2.02E-03	1.88E-02
595326.24	4171790.65	2.10E-03	2.21E-03	3.41E-05	7.74E-06	4.74E-07	3.96E-07	4.35E-03	8.69E-04	6.26E-04	4.54E-06	1.33E-07	6.31E-04	5.88E-03
595326.24	4171810.65	2.22E-03	2.48E-03	3.89E-05	8.86E-06	5.04E-07	4.47E-07	4.75E-03	9.51E-04	7.26E-04	5.20E-06	1.49E-07	7.32E-04	6.82E-03
595326.24	4171830.65	2.36E-03	2.82E-03	4.46E-05	1.02E-05	5.36E-07	5.10E-07	5.23E-03	1.05E-03	8.51E-04	5.97E-06	1.68E-07	8.57E-04	7.99E-03
595326.24	4171850.65	2.51E-03	3.23E-03	5.13E-05	1.17E-05	5.72E-07	5.86E-07	5.80E-03	1.16E-03	1.01E-03	6.87E-06	1.91E-07	1.01E-03	9.44E-03
595334.00	4172743.00	6.16E-02	1.02E-03	1.69E-04	3.87E-05	8.94E-06	1.61E-07	6.28E-02	1.26E-02	1.34E-02	2.27E-05	3.62E-06	1.34E-02	1.25E-01
595334.00	4172763.00	4.19E-02	9.72E-04	1.43E-04	3.27E-05	7.28E-06	1.53E-07	4.31E-02	8.61E-03	1.18E-02	1.92E-05	3.64E-06	1.18E-02	1.10E-01
595334.00	4172823.00	2.13E-02	8.41E-04	8.38E-05	1.91E-05	4.32E-06	1.30E-07	2.22E-02	4.45E-03	8.81E-03	1.12E-05	3.27E-06	8.83E-03	8.23E-02
595334.00	4172843.00	1.80E-02	8.02E-04	7.06E-05	1.61E-05	3.72E-06	1.24E-07	1.89E-02	3.78E-03	8.21E-03	9.42E-06	3.04E-06	8.22E-03	7.67E-02
595334.00	4172863.00	1.55E-02	7.68E-04	6.02E-05	1.36E-05	3.24E-06	1.18E-07	1.64E-02	3.28E-03	7.86E-03	8.01E-06	2.78E-06	7.87E-03	7.34E-02
595334.00	4172883.00	1.36E-02	7.35E-04	5.17E-05	1.17E-05	2.85E-06	1.13E-07	1.44E-02	2.87E-03	7.74E-03	6.86E-06	2.49E-06	7.75E-03	7.22E-02
595334.00	4172903.00	1.20E-02	7.04E-04	4.48E-05	1.01E-05	2.52E-06	1.08E-07	1.27E-02	2.54E-03	7.73E-03	5.92E-06	2.19E-06	7.74E-03	7.21E-02
595334.00	4172923.00	1.06E-02	6.76E-04	3.91E-05	8.80E-06	2.25E-06	1.03E-07	1.14E-02	2.28E-03	7.57E-03	5.16E-06	1.89E-06	7.58E-03	7.07E-02
595334.00	4172943.00	9.53E-03	6.48E-04	3.44E-05	7.73E-06	2.01E-06	9.82E-08	1.02E-02	2.04E-03	6.91E-03	4.53E-06	1.61E-06	6.92E-03	6.45E-02
595334.00	4172963.00	8.63E-03	6.24E-04	3.06E-05	6.87E-06	1.82E-06	9.42E-08	9.29E-03	1.86E-03	5.86E-03	4.03E-06	1.37E-06	5.87E-03	5.47E-02
595334.00	4172983.00	7.84E-03	6.00E-04	2.74E-05	6.13E-06	1.65E-06	9.03E-08	8.47E-03	1.69E-03	4.72E-03	3.60E-06	1.16E-06	4.73E-03	4.41E-02
595334.00	4173003.00	7.15E-03	5.77E-04	2.46E-05	5.51E-06	1.50E-06	8.66E-08	7.76E-03	1.55E-03	3.74E-03	3.23E-06	9.86E-07	3.75E-03	3.49E-02
595334.00	4173023.00	6.56E-03	5.56E-04	2.23E-05	4.99E-06	1.37E-06	8.32E-08	7.15E-03	1.43E-03	2.98E-03	2.93E-06	8.42E-07	2.98E-03	2.78E-02
595334.00	4173043.00	6.05E-03	5.36E-04	2.03E-05	4.54E-06	1.26E-06	8.01E-08	6.61E-03	1.32E-03	2.39E-03	2.66E-06	7.21E-07	2.40E-03	2.23E-02
595334.00	4173063.00	5.60E-03	5.17E-04	1.86E-05	4.15E-06	1.16E-06	7.71E-08	6.14E-03	1.23E-03	1.94E-03	2.43E-06	6.20E-07	1.94E-03	1.81E-02
595334.00	4173103.00	4.83E-03	4.82E-04	1.57E-05	3.50E-06	9.98E-07	7.14E-08	5.33E-03	1.07E-03	1.32E-03	2.06E-06	4.64E-07	1.33E-03	1.24E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595334.00	4173123.00	4.50E-03	4.65E-04	1.45E-05	3.24E-06	9.27E-07	6.88E-08	4.98E-03	9.96E-04	1.11E-03	1.90E-06	4.05E-07	1.12E-03	1.04E-02
595354.00	4172763.00	6.12E-02	1.05E-03	1.26E-04	2.87E-05	7.55E-06	1.61E-07	6.24E-02	1.25E-02	9.68E-03	1.68E-05	2.94E-06	9.70E-03	9.05E-02
595354.00	4172783.00	4.28E-02	9.87E-04	1.07E-04	2.44E-05	6.25E-06	1.51E-07	4.39E-02	8.78E-03	8.68E-03	1.43E-05	2.91E-06	8.70E-03	8.11E-02
595354.00	4172803.00	3.31E-02	9.39E-04	9.09E-05	2.08E-05	5.29E-06	1.43E-07	3.42E-02	6.83E-03	7.98E-03	1.22E-05	2.82E-06	8.00E-03	7.46E-02
595354.00	4172823.00	2.66E-02	8.94E-04	7.76E-05	1.77E-05	4.52E-06	1.36E-07	2.76E-02	5.51E-03	7.41E-03	1.04E-05	2.69E-06	7.42E-03	6.92E-02
595354.00	4172843.00	2.20E-02	8.52E-04	6.68E-05	1.52E-05	3.91E-06	1.29E-07	2.30E-02	4.59E-03	6.99E-03	8.92E-06	2.51E-06	7.00E-03	6.53E-02
595354.00	4172863.00	1.86E-02	8.13E-04	5.77E-05	1.31E-05	3.40E-06	1.23E-07	1.95E-02	3.90E-03	6.70E-03	7.69E-06	2.31E-06	6.71E-03	6.26E-02
595354.00	4172903.00	1.39E-02	7.43E-04	4.40E-05	9.92E-06	2.65E-06	1.11E-07	1.47E-02	2.95E-03	6.36E-03	5.82E-06	1.85E-06	6.36E-03	5.93E-02
595354.00	4172923.00	1.23E-02	7.11E-04	3.87E-05	8.72E-06	2.36E-06	1.06E-07	1.30E-02	2.61E-03	6.04E-03	5.11E-06	1.62E-06	6.05E-03	5.64E-02
595354.00	4172943.00	1.09E-02	6.82E-04	3.44E-05	7.72E-06	2.12E-06	1.02E-07	1.16E-02	2.33E-03	5.49E-03	4.53E-06	1.41E-06	5.49E-03	5.12E-02
595354.00	4172963.00	9.80E-03	6.55E-04	3.07E-05	6.89E-06	1.91E-06	9.74E-08	1.05E-02	2.10E-03	4.74E-03	4.04E-06	1.22E-06	4.75E-03	4.43E-02
595354.00	4172983.00	8.84E-03	6.29E-04	2.76E-05	6.19E-06	1.73E-06	9.33E-08	9.51E-03	1.90E-03	3.96E-03	3.63E-06	1.05E-06	3.96E-03	3.70E-02
595354.00	4173003.00	8.01E-03	6.04E-04	2.49E-05	5.58E-06	1.58E-06	8.94E-08	8.65E-03	1.73E-03	3.26E-03	3.27E-06	9.04E-07	3.26E-03	3.04E-02
595354.00	4173023.00	7.31E-03	5.81E-04	2.26E-05	5.06E-06	1.44E-06	8.58E-08	7.92E-03	1.58E-03	2.68E-03	2.97E-06	7.83E-07	2.69E-03	2.50E-02
595354.00	4173043.00	6.70E-03	5.60E-04	2.07E-05	4.62E-06	1.32E-06	8.25E-08	7.29E-03	1.46E-03	2.22E-03	2.71E-06	6.79E-07	2.22E-03	2.07E-02
595354.00	4173063.00	6.17E-03	5.39E-04	1.89E-05	4.23E-06	1.22E-06	7.93E-08	6.73E-03	1.35E-03	1.84E-03	2.48E-06	5.91E-07	1.85E-03	1.72E-02
595354.00	4173083.00	5.70E-03	5.19E-04	1.74E-05	3.89E-06	1.13E-06	7.63E-08	6.24E-03	1.25E-03	1.54E-03	2.28E-06	5.16E-07	1.55E-03	1.44E-02
595354.00	4173103.00	5.27E-03	5.01E-04	1.61E-05	3.58E-06	1.04E-06	7.33E-08	5.79E-03	1.16E-03	1.30E-03	2.10E-06	4.52E-07	1.30E-03	1.22E-02
595354.00	4173123.00	4.89E-03	4.83E-04	1.48E-05	3.31E-06	9.67E-07	7.05E-08	5.39E-03	1.08E-03	1.11E-03	1.94E-06	3.97E-07	1.11E-03	1.03E-02
595354.00	4173143.00	4.55E-03	4.66E-04	1.38E-05	3.07E-06	9.00E-07	6.79E-08	5.04E-03	1.01E-03	9.52E-04	1.80E-06	3.51E-07	9.54E-04	8.89E-03
595354.00	4173163.00	4.26E-03	4.50E-04	1.29E-05	2.86E-06	8.42E-07	6.56E-08	4.73E-03	9.46E-04	8.30E-04	1.68E-06	3.13E-07	8.32E-04	7.76E-03
595374.00	4172763.00	8.33E-02	1.12E-03	1.11E-04	2.54E-05	7.56E-06	1.68E-07	8.46E-02	1.69E-02	7.98E-03	1.49E-05	2.44E-06	7.99E-03	7.45E-02
595374.00	4172783.00	5.67E-02	1.06E-03	9.60E-05	2.19E-05	6.34E-06	1.58E-07	5.79E-02	1.16E-02	7.29E-03	1.29E-05	2.42E-06	7.30E-03	6.81E-02
595374.00	4172803.00	4.22E-02	1.00E-03	8.32E-05	1.90E-05	5.40E-06	1.49E-07	4.33E-02	8.67E-03	6.77E-03	1.11E-05	2.35E-06	6.78E-03	6.33E-02
595374.00	4172823.00	3.31E-02	9.52E-04	7.24E-05	1.65E-05	4.66E-06	1.42E-07	3.42E-02	6.84E-03	6.37E-03	9.69E-06	2.25E-06	6.38E-03	5.95E-02
595374.00	4172843.00	2.68E-02	9.05E-04	6.31E-05	1.44E-05	4.04E-06	1.34E-07	2.78E-02	5.55E-03	6.03E-03	8.43E-06	2.11E-06	6.04E-03	5.64E-02
595374.00	4172863.00	2.23E-02	8.63E-04	5.53E-05	1.26E-05	3.53E-06	1.28E-07	2.32E-02	4.64E-03	5.79E-03	7.37E-06	1.95E-06	5.80E-03	5.41E-02
595374.00	4172883.00	1.90E-02	8.24E-04	4.88E-05	1.11E-05	3.12E-06	1.22E-07	1.98E-02	3.97E-03	5.59E-03	6.49E-06	1.77E-06	5.60E-03	5.22E-02
595374.00	4172903.00	1.62E-02	7.85E-04	4.31E-05	9.73E-06	2.76E-06	1.16E-07	1.71E-02	3.42E-03	5.34E-03	5.71E-06	1.59E-06	5.35E-03	4.99E-02
595374.00	4172923.00	1.41E-02	7.49E-04	3.82E-05	8.60E-06	2.46E-06	1.10E-07	1.49E-02	2.98E-03	5.00E-03	5.05E-06	1.41E-06	5.00E-03	4.66E-02
595374.00	4172943.00	1.24E-02	7.17E-04	3.41E-05	7.66E-06	2.21E-06	1.05E-07	1.32E-02	2.64E-03	4.53E-03	4.50E-06	1.24E-06	4.53E-03	4.23E-02
595374.00	4172963.00	1.11E-02	6.87E-04	3.07E-05	6.88E-06	1.99E-06	1.01E-07	1.18E-02	2.36E-03	3.97E-03	4.04E-06	1.08E-06	3.97E-03	3.71E-02
595374.00	4172983.00	9.92E-03	6.59E-04	2.77E-05	6.20E-06	1.81E-06	9.63E-08	1.06E-02	2.12E-03	3.39E-03	3.64E-06	9.48E-07	3.40E-03	3.17E-02
595374.00	4173003.00	8.95E-03	6.32E-04	2.51E-05	5.62E-06	1.65E-06	9.22E-08	9.61E-03	1.92E-03	2.87E-03	3.30E-06	8.29E-07	2.87E-03	2.68E-02
595374.00	4173023.00	8.11E-03	6.07E-04	2.29E-05	5.11E-06	1.50E-06	8.84E-08	8.75E-03	1.75E-03	2.42E-03	3.00E-06	7.26E-07	2.42E-03	2.26E-02
595374.00	4173043.00	7.40E-03	5.83E-04	2.09E-05	4.67E-06	1.38E-06	8.49E-08	8.01E-03	1.60E-03	2.05E-03	2.74E-06	6.38E-07	2.05E-03	1.91E-02
595374.00	4173063.00	6.78E-03	5.61E-04	1.92E-05	4.29E-06	1.27E-06	8.15E-08	7.36E-03	1.47E-03	1.74E-03	2.52E-06	5.61E-07	1.74E-03	1.62E-02
595374.00	4173083.00	6.22E-03	5.39E-04	1.77E-05	3.94E-06	1.17E-06	7.82E-08	6.78E-03	1.36E-03	1.48E-03	2.31E-06	4.94E-07	1.48E-03	1.38E-02
595374.00	4173103.00	5.73E-03	5.19E-04	1.63E-05	3.64E-06	1.08E-06	7.52E-08	6.27E-03	1.25E-03	1.26E-03	2.13E-06	4.36E-07	1.27E-03	1.18E-02
595374.00	4173123.00	5.30E-03	5.00E-04	1.51E-05	3.37E-06	1.00E-06	7.23E-08	5.82E-03	1.16E-03	1.09E-03	1.98E-06	3.86E-07	1.09E-03	1.02E-02
595374.00	4173143.00	4.92E-03	4.82E-04	1.41E-05	3.13E-06	9.35E-07	6.96E-08	5.42E-03	1.08E-03	9.45E-04	1.84E-06	3.43E-07	9.47E-04	8.83E-03
595374.00	4173163.00	4.59E-03	4.65E-04	1.31E-05	2.92E-06	8.74E-07	6.71E-08	5.08E-03	1.02E-03	8.29E-04	1.71E-06	3.08E-07	8.31E-04	7.75E-03
595374.00	4173183.00	4.30E-03	4.49E-04	1.23E-05	2.73E-06	8.18E-07	6.48E-08	4.76E-03	9.52E-04	7.33E-04	1.60E-06	2.77E-07	7.35E-04	6.85E-03
595394.00	4172783.00	7.33E-02	1.13E-03	8.75E-05	2.00E-05	6.34E-06	1.65E-07	7.45E-02	1.49E-02	6.23E-03	1.17E-05	2.04E-06	6.25E-03	5.82E-02
595394.00	4172803.00	5.26E-02	1.07E-03	7.67E-05	1.75E-05	5.44E-06	1.56E-07	5.37E-02	1.07E-02	5.84E-03	1.03E-05	1.99E-06	5.85E-03	5.45E-02
595394.00	4172823.00	4.01E-02	1.01E-03	6.75E-05	1.54E-05	4.71E-06	1.48E-07	4.12E-02	8.25E-03	5.52E-03	9.04E-06	1.91E-06	5.53E-03	5.16E-02
595394.00	4172843.00	3.19E-02	9.61E-04	5.96E-05	1.36E-05	4.11E-06	1.40E-07	3.29E-02	6.58E-03	5.25E-03	7.96E-06	1.80E-06	5.26E-03	4.91E-02
595394.00	4172863.00	2.60E-02	9.12E-04	5.27E-05	1.20E-05	3.61E-06	1.32E-07	2.70E-02	5.40E-03	5.02E-03	7.04E-06	1.67E-06	5.03E-03	4.69E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595394.00	4172883.00	2.18E-02	8.69E-04	4.70E-05	1.07E-05	3.19E-06	1.26E-07	2.28E-02	4.56E-03	4.81E-03	6.25E-06	1.53E-06	4.81E-03	4.49E-02
595394.00	4172923.00	1.61E-02	7.89E-04	3.75E-05	8.45E-06	2.54E-06	1.14E-07	1.69E-02	3.38E-03	4.24E-03	4.96E-06	1.24E-06	4.24E-03	3.96E-02
595394.00	4172943.00	1.41E-02	7.54E-04	3.37E-05	7.59E-06	2.28E-06	1.09E-07	1.49E-02	2.97E-03	3.85E-03	4.45E-06	1.10E-06	3.85E-03	3.59E-02
595394.00	4172963.00	1.24E-02	7.20E-04	3.04E-05	6.83E-06	2.06E-06	1.04E-07	1.32E-02	2.63E-03	3.40E-03	4.01E-06	9.73E-07	3.41E-03	3.18E-02
595394.00	4172983.00	1.11E-02	6.90E-04	2.76E-05	6.19E-06	1.87E-06	9.93E-08	1.18E-02	2.36E-03	2.96E-03	3.63E-06	8.60E-07	2.97E-03	2.77E-02
595394.00	4173003.00	9.90E-03	6.60E-04	2.51E-05	5.62E-06	1.70E-06	9.50E-08	1.06E-02	2.12E-03	2.55E-03	3.30E-06	7.60E-07	2.55E-03	2.38E-02
595394.00	4173023.00	8.94E-03	6.33E-04	2.30E-05	5.13E-06	1.56E-06	9.10E-08	9.60E-03	1.92E-03	2.19E-03	3.01E-06	6.73E-07	2.20E-03	2.05E-02
595394.00	4173043.00	8.12E-03	6.08E-04	2.11E-05	4.70E-06	1.43E-06	8.73E-08	8.75E-03	1.75E-03	1.89E-03	2.76E-06	5.98E-07	1.89E-03	1.77E-02
595394.00	4173063.00	7.39E-03	5.83E-04	1.94E-05	4.32E-06	1.32E-06	8.36E-08	8.00E-03	1.60E-03	1.63E-03	2.54E-06	5.30E-07	1.63E-03	1.52E-02
595394.00	4173083.00	6.76E-03	5.60E-04	1.79E-05	3.98E-06	1.21E-06	8.02E-08	7.34E-03	1.47E-03	1.41E-03	2.34E-06	4.70E-07	1.41E-03	1.31E-02
595394.00	4173103.00	6.21E-03	5.38E-04	1.65E-05	3.68E-06	1.12E-06	7.70E-08	6.77E-03	1.35E-03	1.22E-03	2.16E-06	4.18E-07	1.22E-03	1.14E-02
595394.00	4173123.00	5.73E-03	5.17E-04	1.53E-05	3.41E-06	1.04E-06	7.40E-08	6.27E-03	1.25E-03	1.06E-03	2.00E-06	3.73E-07	1.06E-03	9.91E-03
595394.00	4173143.00	5.31E-03	4.99E-04	1.43E-05	3.18E-06	9.69E-07	7.13E-08	5.83E-03	1.17E-03	9.32E-04	1.86E-06	3.35E-07	9.34E-04	8.71E-03
595394.00	4173163.00	4.94E-03	4.81E-04	1.33E-05	2.96E-06	9.04E-07	6.87E-08	5.44E-03	1.09E-03	8.23E-04	1.74E-06	3.01E-07	8.25E-04	7.69E-03
595394.00	4173183.00	4.61E-03	4.64E-04	1.25E-05	2.77E-06	8.46E-07	6.63E-08	5.09E-03	1.02E-03	7.31E-04	1.63E-06	2.72E-07	7.33E-04	6.83E-03
595413.93	4172953.11	1.46E-02	7.72E-04	3.15E-05	7.09E-06	2.22E-06	1.10E-07	1.54E-02	3.08E-03	3.15E-03	4.16E-06	9.28E-07	3.16E-03	2.95E-02
595414.00	4172783.00	8.92E-02	1.21E-03	8.03E-05	1.83E-05	6.25E-06	1.73E-07	9.05E-02	1.81E-02	5.40E-03	1.08E-05	1.75E-06	5.41E-03	5.04E-02
595414.00	4172803.00	6.23E-02	1.14E-03	7.12E-05	1.63E-05	5.40E-06	1.63E-07	6.36E-02	1.27E-02	5.10E-03	9.54E-06	1.70E-06	5.11E-03	4.76E-02
595414.00	4172823.00	4.67E-02	1.08E-03	6.32E-05	1.44E-05	4.70E-06	1.53E-07	4.78E-02	9.57E-03	4.83E-03	8.46E-06	1.64E-06	4.84E-03	4.52E-02
595414.00	4172843.00	3.67E-02	1.02E-03	5.64E-05	1.28E-05	4.13E-06	1.45E-07	3.78E-02	7.56E-03	4.61E-03	7.54E-06	1.55E-06	4.62E-03	4.31E-02
595414.00	4172863.00	2.97E-02	9.66E-04	5.04E-05	1.15E-05	3.65E-06	1.38E-07	3.08E-02	6.15E-03	4.40E-03	6.73E-06	1.44E-06	4.41E-03	4.11E-02
595414.00	4172883.00	2.47E-02	9.18E-04	4.52E-05	1.03E-05	3.24E-06	1.31E-07	2.57E-02	5.14E-03	4.19E-03	6.02E-06	1.33E-06	4.19E-03	3.91E-02
595414.00	4172903.00	2.10E-02	8.75E-04	4.08E-05	9.23E-06	2.90E-06	1.24E-07	2.19E-02	4.39E-03	3.96E-03	5.42E-06	1.21E-06	3.96E-03	3.70E-02
595414.00	4172923.00	1.80E-02	8.31E-04	3.67E-05	8.28E-06	2.59E-06	1.18E-07	1.89E-02	3.77E-03	3.66E-03	4.86E-06	1.09E-06	3.67E-03	3.42E-02
595414.00	4172943.00	1.56E-02	7.91E-04	3.31E-05	7.46E-06	2.34E-06	1.12E-07	1.65E-02	3.29E-03	3.33E-03	4.38E-06	9.82E-07	3.34E-03	3.11E-02
595414.00	4172963.00	1.37E-02	7.54E-04	3.01E-05	6.75E-06	2.11E-06	1.07E-07	1.45E-02	2.90E-03	2.97E-03	3.96E-06	8.77E-07	2.98E-03	2.78E-02
595414.00	4172983.00	1.22E-02	7.21E-04	2.74E-05	6.14E-06	1.92E-06	1.02E-07	1.29E-02	2.58E-03	2.62E-03	3.60E-06	7.83E-07	2.63E-03	2.45E-02
595414.00	4173003.00	1.09E-02	6.89E-04	2.50E-05	5.60E-06	1.75E-06	9.78E-08	1.16E-02	2.32E-03	2.29E-03	3.29E-06	6.99E-07	2.30E-03	2.14E-02
595414.00	4173023.00	9.77E-03	6.60E-04	2.30E-05	5.13E-06	1.60E-06	9.36E-08	1.05E-02	2.09E-03	2.00E-03	3.01E-06	6.25E-07	2.00E-03	1.87E-02
595414.00	4173043.00	8.83E-03	6.32E-04	2.11E-05	4.71E-06	1.47E-06	8.96E-08	9.49E-03	1.90E-03	1.75E-03	2.76E-06	5.59E-07	1.75E-03	1.63E-02
595414.00	4173063.00	8.01E-03	6.05E-04	1.94E-05	4.34E-06	1.35E-06	8.58E-08	8.65E-03	1.73E-03	1.53E-03	2.54E-06	4.99E-07	1.53E-03	1.42E-02
595414.00	4173083.00	7.31E-03	5.80E-04	1.80E-05	4.00E-06	1.25E-06	8.22E-08	7.91E-03	1.58E-03	1.33E-03	2.35E-06	4.47E-07	1.34E-03	1.25E-02
595414.00	4173103.00	6.70E-03	5.57E-04	1.67E-05	3.71E-06	1.16E-06	7.89E-08	7.28E-03	1.46E-03	1.17E-03	2.18E-06	4.01E-07	1.17E-03	1.09E-02
595414.00	4173123.00	6.17E-03	5.36E-04	1.55E-05	3.45E-06	1.07E-06	7.58E-08	6.72E-03	1.34E-03	1.03E-03	2.02E-06	3.60E-07	1.03E-03	9.64E-03
595414.00	4173143.00	5.73E-03	5.17E-04	1.45E-05	3.23E-06	1.00E-06	7.33E-08	6.27E-03	1.25E-03	9.20E-04	1.89E-06	3.27E-07	9.22E-04	8.60E-03
595414.00	4173163.00	5.31E-03	4.98E-04	1.36E-05	3.01E-06	9.35E-07	7.05E-08	5.82E-03	1.16E-03	8.16E-04	1.77E-06	2.95E-07	8.18E-04	7.63E-03
595414.00	4173183.00	4.92E-03	4.79E-04	1.27E-05	2.81E-06	8.72E-07	6.78E-08	5.42E-03	1.08E-03	7.26E-04	1.65E-06	2.67E-07	7.28E-04	6.79E-03
595424.36	4172061.47	4.90E-03	2.02E-02	6.09E-04	1.39E-04	1.21E-06	5.25E-06	2.58E-02	5.17E-03	1.18E-02	8.16E-05	1.65E-06	1.19E-02	1.11E-01
595427.66	4172811.08	5.92E-02	1.16E-03	6.47E-05	1.48E-05	5.06E-06	1.63E-07	6.04E-02	1.21E-02	4.57E-03	8.67E-06	1.52E-06	4.58E-03	4.27E-02
595432.70	4172731.56	2.97E-01	1.53E-03	9.86E-05	2.25E-05	8.93E-06	2.14E-07	2.99E-01	5.97E-02	5.43E-03	1.32E-05	1.53E-06	5.45E-03	5.08E-02
595434.00	4172783.00	9.63E-02	1.30E-03	7.42E-05	1.70E-05	6.09E-06	1.81E-07	9.77E-02	1.95E-02	4.72E-03	9.95E-06	1.52E-06	4.73E-03	4.42E-02
595434.00	4172803.00	6.82E-02	1.22E-03	6.63E-05	1.51E-05	5.30E-06	1.69E-07	6.95E-02	1.39E-02	4.48E-03	8.88E-06	1.48E-06	4.49E-03	4.19E-02
595434.00	4172823.00	5.15E-02	1.14E-03	5.94E-05	1.36E-05	4.65E-06	1.59E-07	5.27E-02	1.05E-02	4.27E-03	7.95E-06	1.42E-06	4.28E-03	3.99E-02
595434.00	4172843.00	4.05E-02	1.08E-03	5.34E-05	1.22E-05	4.11E-06	1.51E-07	4.16E-02	8.33E-03	4.08E-03	7.14E-06	1.35E-06	4.09E-03	3.81E-02
595434.00	4172863.00	3.28E-02	1.02E-03	4.81E-05	1.10E-05	3.65E-06	1.43E-07	3.39E-02	6.78E-03	3.89E-03	6.43E-06	1.26E-06	3.89E-03	3.63E-02
595434.00	4172883.00	2.73E-02	9.70E-04	4.35E-05	9.90E-06	3.26E-06	1.35E-07	2.83E-02	5.66E-03	3.69E-03	5.81E-06	1.17E-06	3.70E-03	3.45E-02
595434.00	4172903.00	2.30E-02	9.20E-04	3.94E-05	8.94E-06	2.92E-06	1.29E-07	2.40E-02	4.80E-03	3.47E-03	5.25E-06	1.07E-06	3.47E-03	3.24E-02
595434.00	4172943.00	1.71E-02	8.30E-04	3.25E-05	7.33E-06	2.37E-06	1.16E-07	1.79E-02	3.59E-03	2.93E-03	4.30E-06	8.82E-07	2.94E-03	2.74E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595434.00	4172963.00	1.50E-02	7.90E-04	2.96E-05	6.66E-06	2.15E-06	1.10E-07	1.58E-02	3.16E-03	2.64E-03	3.91E-06	7.95E-07	2.64E-03	2.46E-02
595434.00	4172983.00	1.32E-02	7.53E-04	2.71E-05	6.08E-06	1.96E-06	1.05E-07	1.40E-02	2.80E-03	2.35E-03	3.57E-06	7.16E-07	2.35E-03	2.19E-02
595434.00	4173003.00	1.18E-02	7.19E-04	2.48E-05	5.56E-06	1.79E-06	1.01E-07	1.25E-02	2.51E-03	2.08E-03	3.27E-06	6.44E-07	2.08E-03	1.94E-02
595434.00	4173023.00	1.06E-02	6.87E-04	2.28E-05	5.10E-06	1.64E-06	9.61E-08	1.13E-02	2.25E-03	1.83E-03	3.00E-06	5.79E-07	1.83E-03	1.71E-02
595434.00	4173043.00	9.52E-03	6.57E-04	2.11E-05	4.70E-06	1.51E-06	9.19E-08	1.02E-02	2.04E-03	1.62E-03	2.76E-06	5.22E-07	1.62E-03	1.51E-02
595434.00	4173063.00	8.62E-03	6.29E-04	1.95E-05	4.34E-06	1.39E-06	8.79E-08	9.28E-03	1.86E-03	1.43E-03	2.55E-06	4.71E-07	1.43E-03	1.34E-02
595434.00	4173083.00	7.85E-03	6.02E-04	1.80E-05	4.02E-06	1.28E-06	8.43E-08	8.48E-03	1.70E-03	1.27E-03	2.36E-06	4.25E-07	1.27E-03	1.18E-02
595434.00	4173103.00	7.18E-03	5.78E-04	1.67E-05	3.73E-06	1.19E-06	8.08E-08	7.78E-03	1.56E-03	1.12E-03	2.19E-06	3.84E-07	1.13E-03	1.05E-02
595434.00	4173123.00	6.60E-03	5.55E-04	1.56E-05	3.47E-06	1.10E-06	7.77E-08	7.18E-03	1.44E-03	1.00E-03	2.04E-06	3.47E-07	1.00E-03	9.35E-03
595434.00	4173143.00	6.12E-03	5.35E-04	1.46E-05	3.25E-06	1.03E-06	7.50E-08	6.67E-03	1.33E-03	8.98E-04	1.91E-06	3.17E-07	9.00E-04	8.39E-03
595434.00	4173163.00	5.65E-03	5.14E-04	1.37E-05	3.04E-06	9.61E-07	7.21E-08	6.19E-03	1.24E-03	8.01E-04	1.78E-06	2.87E-07	8.04E-04	7.49E-03
595434.00	4173183.00	5.24E-03	4.94E-04	1.28E-05	2.84E-06	8.97E-07	6.93E-08	5.75E-03	1.15E-03	7.18E-04	1.67E-06	2.61E-07	7.20E-04	6.71E-03
595440.32	4172695.89	4.20E-01	1.79E-03	1.13E-04	2.58E-05	1.14E-05	2.47E-07	4.22E-01	8.44E-02	5.47E-03	1.51E-05	1.36E-06	5.49E-03	5.12E-02
595453.66	4172369.33	1.83E-01	1.68E-02	2.68E-04	6.13E-05	2.98E-05	1.98E-06	2.00E-01	4.00E-02	3.40E-02	3.60E-05	2.20E-06	3.41E-02	3.18E-01
595454.00	4172803.00	6.98E-02	1.29E-03	6.20E-05	1.42E-05	5.16E-06	1.76E-07	7.12E-02	1.42E-02	3.98E-03	8.31E-06	1.30E-06	3.99E-03	3.72E-02
595454.00	4172823.00	5.39E-02	1.22E-03	5.59E-05	1.28E-05	4.56E-06	1.66E-07	5.51E-02	1.10E-02	3.80E-03	7.49E-06	1.24E-06	3.81E-03	3.55E-02
595454.00	4172843.00	4.29E-02	1.15E-03	5.06E-05	1.16E-05	4.05E-06	1.56E-07	4.41E-02	8.82E-03	3.63E-03	6.78E-06	1.18E-06	3.64E-03	3.39E-02
595454.00	4172863.00	3.51E-02	1.08E-03	4.60E-05	1.05E-05	3.62E-06	1.48E-07	3.62E-02	7.25E-03	3.46E-03	6.15E-06	1.11E-06	3.47E-03	3.23E-02
595454.00	4172883.00	2.92E-02	1.02E-03	4.18E-05	9.51E-06	3.24E-06	1.40E-07	3.02E-02	6.05E-03	3.27E-03	5.58E-06	1.03E-06	3.28E-03	3.06E-02
595454.00	4172903.00	2.47E-02	9.67E-04	3.81E-05	8.65E-06	2.92E-06	1.33E-07	2.57E-02	5.14E-03	3.07E-03	5.07E-06	9.55E-07	3.08E-03	2.87E-02
595454.00	4172943.00	1.83E-02	8.70E-04	3.18E-05	7.17E-06	2.39E-06	1.19E-07	1.92E-02	3.85E-03	2.61E-03	4.21E-06	7.98E-07	2.61E-03	2.44E-02
595454.00	4172963.00	1.60E-02	8.26E-04	2.91E-05	6.55E-06	2.17E-06	1.14E-07	1.69E-02	3.38E-03	2.36E-03	3.84E-06	7.24E-07	2.37E-03	2.21E-02
595454.00	4172983.00	1.42E-02	7.87E-04	2.67E-05	6.00E-06	1.98E-06	1.08E-07	1.50E-02	3.00E-03	2.12E-03	3.52E-06	6.57E-07	2.13E-03	1.98E-02
595454.00	4173003.00	1.26E-02	7.50E-04	2.46E-05	5.51E-06	1.81E-06	1.03E-07	1.34E-02	2.68E-03	1.90E-03	3.24E-06	5.95E-07	1.90E-03	1.77E-02
595454.00	4173023.00	1.13E-02	7.15E-04	2.26E-05	5.07E-06	1.66E-06	9.86E-08	1.20E-02	2.41E-03	1.69E-03	2.97E-06	5.39E-07	1.69E-03	1.58E-02
595454.00	4173043.00	1.02E-02	6.83E-04	2.09E-05	4.68E-06	1.53E-06	9.42E-08	1.09E-02	2.17E-03	1.51E-03	2.75E-06	4.89E-07	1.51E-03	1.41E-02
595454.00	4173063.00	9.21E-03	6.53E-04	1.94E-05	4.33E-06	1.41E-06	9.02E-08	9.89E-03	1.98E-03	1.34E-03	2.54E-06	4.44E-07	1.35E-03	1.26E-02
595454.00	4173083.00	8.38E-03	6.25E-04	1.81E-05	4.02E-06	1.31E-06	8.64E-08	9.03E-03	1.81E-03	1.20E-03	2.36E-06	4.04E-07	1.21E-03	1.13E-02
595454.00	4173103.00	7.66E-03	5.99E-04	1.68E-05	3.74E-06	1.21E-06	8.29E-08	8.28E-03	1.66E-03	1.08E-03	2.20E-06	3.67E-07	1.08E-03	1.01E-02
595454.00	4173123.00	7.03E-03	5.75E-04	1.57E-05	3.49E-06	1.13E-06	7.96E-08	7.63E-03	1.53E-03	9.69E-04	2.05E-06	3.35E-07	9.72E-04	9.06E-03
595465.61	4172972.42	1.56E-02	8.27E-04	2.76E-05	6.21E-06	2.08E-06	1.13E-07	1.65E-02	3.29E-03	2.12E-03	3.65E-06	6.57E-07	2.12E-03	1.98E-02
595474.00	4172803.00	6.88E-02	1.38E-03	5.83E-05	1.33E-05	5.00E-06	1.83E-07	7.03E-02	1.41E-02	3.57E-03	7.81E-06	1.15E-06	3.57E-03	3.33E-02
595474.00	4172823.00	5.42E-02	1.29E-03	5.28E-05	1.21E-05	4.43E-06	1.72E-07	5.56E-02	1.11E-02	3.41E-03	7.07E-06	1.10E-06	3.41E-03	3.18E-02
595474.00	4172843.00	4.39E-02	1.21E-03	4.80E-05	1.10E-05	3.96E-06	1.62E-07	4.51E-02	9.03E-03	3.25E-03	6.43E-06	1.05E-06	3.26E-03	3.04E-02
595474.00	4172863.00	3.63E-02	1.14E-03	4.39E-05	1.00E-05	3.56E-06	1.53E-07	3.75E-02	7.50E-03	3.10E-03	5.88E-06	9.88E-07	3.11E-03	2.90E-02
595474.00	4172883.00	3.04E-02	1.08E-03	4.02E-05	9.14E-06	3.20E-06	1.44E-07	3.16E-02	6.32E-03	2.93E-03	5.36E-06	9.24E-07	2.94E-03	2.74E-02
595474.00	4172903.00	2.59E-02	1.02E-03	3.68E-05	8.35E-06	2.89E-06	1.37E-07	2.69E-02	5.39E-03	2.75E-03	4.90E-06	8.57E-07	2.75E-03	2.57E-02
595474.00	4172923.00	2.23E-02	9.62E-04	3.38E-05	7.66E-06	2.63E-06	1.30E-07	2.33E-02	4.66E-03	2.56E-03	4.49E-06	7.91E-07	2.56E-03	2.39E-02
595474.00	4172963.00	1.69E-02	8.63E-04	2.84E-05	6.41E-06	2.17E-06	1.17E-07	1.78E-02	3.56E-03	2.13E-03	3.76E-06	6.61E-07	2.14E-03	1.99E-02
595474.00	4172983.00	1.50E-02	8.20E-04	2.62E-05	5.90E-06	1.98E-06	1.11E-07	1.58E-02	3.16E-03	1.93E-03	3.46E-06	6.04E-07	1.94E-03	1.81E-02
595474.00	4173003.00	1.33E-02	7.81E-04	2.42E-05	5.44E-06	1.82E-06	1.06E-07	1.41E-02	2.83E-03	1.74E-03	3.19E-06	5.51E-07	1.75E-03	1.63E-02
595474.00	4173023.00	1.19E-02	7.44E-04	2.24E-05	5.02E-06	1.68E-06	1.01E-07	1.27E-02	2.54E-03	1.56E-03	2.95E-06	5.02E-07	1.57E-03	1.46E-02
595474.00	4173043.00	1.07E-02	7.09E-04	2.08E-05	4.65E-06	1.54E-06	9.65E-08	1.15E-02	2.30E-03	1.41E-03	2.73E-06	4.58E-07	1.41E-03	1.31E-02
595474.00	4173063.00	9.73E-03	6.78E-04	1.93E-05	4.31E-06	1.43E-06	9.24E-08	1.04E-02	2.09E-03	1.27E-03	2.53E-06	4.19E-07	1.27E-03	1.18E-02
595474.00	4173083.00	8.86E-03	6.49E-04	1.80E-05	4.02E-06	1.33E-06	8.85E-08	9.53E-03	1.91E-03	1.14E-03	2.36E-06	3.84E-07	1.15E-03	1.07E-02
595474.00	4173103.00	8.10E-03	6.22E-04	1.68E-05	3.75E-06	1.23E-06	8.49E-08	8.75E-03	1.75E-03	1.04E-03	2.20E-06	3.52E-07	1.04E-03	9.68E-03
595474.00	4173123.00	7.45E-03	5.96E-04	1.58E-05	3.51E-06	1.15E-06	8.16E-08	8.06E-03	1.61E-03	9.39E-04	2.06E-06	3.23E-07	9.41E-04	8.78E-03
595494.00	4172823.00	5.34E-02	1.37E-03	5.00E-05	1.14E-05	4.29E-06	1.78E-07	5.49E-02	1.10E-02	3.08E-03	6.70E-06	9.83E-07	3.08E-03	2.88E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595494.00	4172843.00	4.40E-02	1.28E-03	4.58E-05	1.04E-05	3.85E-06	1.67E-07	4.53E-02	9.06E-03	2.94E-03	6.13E-06	9.37E-07	2.94E-03	2.75E-02
595494.00	4172863.00	3.68E-02	1.20E-03	4.20E-05	9.58E-06	3.48E-06	1.58E-07	3.81E-02	7.61E-03	2.80E-03	5.62E-06	8.85E-07	2.80E-03	2.61E-02
595494.00	4172883.00	3.11E-02	1.13E-03	3.86E-05	8.78E-06	3.14E-06	1.49E-07	3.23E-02	6.46E-03	2.64E-03	5.15E-06	8.30E-07	2.65E-03	2.47E-02
595494.00	4172903.00	2.66E-02	1.07E-03	3.55E-05	8.07E-06	2.85E-06	1.41E-07	2.77E-02	5.55E-03	2.48E-03	4.74E-06	7.74E-07	2.48E-03	2.32E-02
595494.00	4172923.00	2.30E-02	1.01E-03	3.27E-05	7.42E-06	2.59E-06	1.33E-07	2.41E-02	4.81E-03	2.31E-03	4.35E-06	7.17E-07	2.31E-03	2.16E-02
595494.00	4172963.00	1.76E-02	9.02E-04	2.78E-05	6.29E-06	2.16E-06	1.20E-07	1.86E-02	3.71E-03	1.95E-03	3.69E-06	6.08E-07	1.95E-03	1.82E-02
595494.00	4172983.00	1.56E-02	8.56E-04	2.58E-05	5.80E-06	1.98E-06	1.14E-07	1.65E-02	3.30E-03	1.78E-03	3.41E-06	5.58E-07	1.78E-03	1.66E-02
595494.00	4173003.00	1.39E-02	8.13E-04	2.39E-05	5.36E-06	1.82E-06	1.09E-07	1.48E-02	2.95E-03	1.61E-03	3.15E-06	5.12E-07	1.61E-03	1.50E-02
595494.00	4173023.00	1.25E-02	7.74E-04	2.21E-05	4.97E-06	1.68E-06	1.04E-07	1.33E-02	2.66E-03	1.46E-03	2.92E-06	4.70E-07	1.46E-03	1.36E-02
595494.00	4173043.00	1.13E-02	7.37E-04	2.06E-05	4.61E-06	1.55E-06	9.89E-08	1.20E-02	2.40E-03	1.32E-03	2.70E-06	4.31E-07	1.32E-03	1.23E-02
595494.00	4173063.00	1.02E-02	7.04E-04	1.92E-05	4.29E-06	1.44E-06	9.46E-08	1.09E-02	2.19E-03	1.20E-03	2.52E-06	3.96E-07	1.20E-03	1.12E-02
595494.00	4173083.00	9.30E-03	6.73E-04	1.80E-05	4.01E-06	1.34E-06	9.07E-08	1.00E-02	2.00E-03	1.09E-03	2.35E-06	3.66E-07	1.09E-03	1.02E-02
595494.00	4173103.00	8.50E-03	6.44E-04	1.68E-05	3.75E-06	1.25E-06	8.70E-08	9.17E-03	1.83E-03	9.94E-04	2.20E-06	3.37E-07	9.96E-04	9.29E-03
595494.00	4173123.00	7.80E-03	6.17E-04	1.58E-05	3.51E-06	1.16E-06	8.34E-08	8.44E-03	1.69E-03	9.05E-04	2.06E-06	3.10E-07	9.07E-04	8.46E-03
595494.00	4173143.00	7.15E-03	5.89E-04	1.47E-05	3.28E-06	1.08E-06	7.97E-08	7.76E-03	1.55E-03	8.19E-04	1.92E-06	2.83E-07	8.21E-04	7.66E-03
595497.98	4172569.45	5.32E-01	4.32E-03	1.30E-04	2.97E-05	1.90E-05	5.15E-07	5.36E-01	1.07E-01	3.27E-03	1.74E-05	7.30E-07	3.29E-03	3.06E-02
595503.43	4172797.49	6.87E-02	1.54E-03	5.48E-05	1.25E-05	4.87E-06	1.98E-07	7.03E-02	1.41E-02	3.11E-03	7.35E-06	9.80E-07	3.12E-03	2.91E-02
595509.20	4172311.10	5.08E-02	9.36E-02	2.28E-04	5.23E-05	1.22E-05	5.15E-06	1.45E-01	2.89E-02	3.85E-02	3.07E-05	2.15E-06	3.85E-02	3.59E-01
595514.00	4171823.00	1.86E-03	1.82E-03	3.73E-05	8.37E-06	4.42E-07	4.13E-07	3.73E-03	7.46E-04	4.93E-04	4.91E-06	1.35E-07	4.98E-04	4.65E-03
595514.00	4171843.00	1.97E-03	2.01E-03	4.42E-05	9.93E-06	4.65E-07	4.61E-07	4.04E-03	8.07E-04	5.65E-04	5.83E-06	1.49E-07	5.71E-04	5.33E-03
595514.00	4171863.00	2.08E-03	2.24E-03	5.33E-05	1.20E-05	4.91E-07	5.18E-07	4.39E-03	8.78E-04	6.58E-04	7.04E-06	1.66E-07	6.65E-04	6.20E-03
595514.00	4171883.00	2.21E-03	2.53E-03	6.71E-05	1.52E-05	5.24E-07	5.96E-07	4.82E-03	9.65E-04	7.90E-04	8.90E-06	1.90E-07	7.99E-04	7.45E-03
595514.00	4171903.00	2.35E-03	2.86E-03	8.51E-05	1.93E-05	5.56E-07	6.85E-07	5.32E-03	1.06E-03	9.63E-04	1.13E-05	2.17E-07	9.74E-04	9.09E-03
595514.00	4172783.00	7.65E-02	1.68E-03	5.64E-05	1.29E-05	5.12E-06	2.12E-07	7.82E-02	1.56E-02	3.03E-03	7.57E-06	9.47E-07	3.04E-03	2.83E-02
595514.00	4172823.00	5.18E-02	1.45E-03	4.75E-05	1.08E-05	4.14E-06	1.85E-07	5.33E-02	1.07E-02	2.80E-03	6.36E-06	8.84E-07	2.80E-03	2.61E-02
595514.00	4172843.00	4.33E-02	1.35E-03	4.36E-05	9.96E-06	3.73E-06	1.73E-07	4.47E-02	8.94E-03	2.67E-03	5.85E-06	8.43E-07	2.68E-03	2.50E-02
595514.00	4172863.00	3.66E-02	1.27E-03	4.02E-05	9.16E-06	3.38E-06	1.63E-07	3.79E-02	7.59E-03	2.54E-03	5.38E-06	7.99E-07	2.54E-03	2.37E-02
595514.00	4172883.00	3.13E-02	1.19E-03	3.71E-05	8.46E-06	3.07E-06	1.54E-07	3.26E-02	6.52E-03	2.40E-03	4.96E-06	7.52E-07	2.41E-03	2.25E-02
595514.00	4172903.00	2.70E-02	1.12E-03	3.42E-05	7.79E-06	2.80E-06	1.45E-07	2.81E-02	5.63E-03	2.25E-03	4.57E-06	7.03E-07	2.26E-03	2.11E-02
595514.00	4172923.00	2.34E-02	1.05E-03	3.17E-05	7.19E-06	2.55E-06	1.37E-07	2.45E-02	4.91E-03	2.10E-03	4.22E-06	6.54E-07	2.11E-03	1.96E-02
595514.00	4172943.00	2.06E-02	9.97E-04	2.94E-05	6.66E-06	2.34E-06	1.30E-07	2.16E-02	4.32E-03	1.95E-03	3.91E-06	6.07E-07	1.95E-03	1.82E-02
595514.00	4172963.00	1.81E-02	9.42E-04	2.72E-05	6.15E-06	2.14E-06	1.23E-07	1.91E-02	3.82E-03	1.79E-03	3.61E-06	5.61E-07	1.80E-03	1.68E-02
595514.00	4172983.00	1.61E-02	8.91E-04	2.52E-05	5.69E-06	1.97E-06	1.17E-07	1.70E-02	3.40E-03	1.64E-03	3.34E-06	5.17E-07	1.64E-03	1.53E-02
595514.00	4173003.00	1.44E-02	8.46E-04	2.34E-05	5.28E-06	1.82E-06	1.11E-07	1.52E-02	3.05E-03	1.49E-03	3.10E-06	4.76E-07	1.50E-03	1.40E-02
595514.00	4173023.00	1.29E-02	8.04E-04	2.18E-05	4.90E-06	1.68E-06	1.06E-07	1.37E-02	2.75E-03	1.36E-03	2.88E-06	4.39E-07	1.37E-03	1.27E-02
595514.00	4173043.00	1.17E-02	7.64E-04	2.03E-05	4.56E-06	1.55E-06	1.01E-07	1.24E-02	2.49E-03	1.24E-03	2.67E-06	4.05E-07	1.24E-03	1.16E-02
595514.00	4173063.00	1.06E-02	7.29E-04	1.90E-05	4.25E-06	1.44E-06	9.67E-08	1.13E-02	2.27E-03	1.13E-03	2.49E-06	3.74E-07	1.13E-03	1.06E-02
595514.00	4173083.00	9.66E-03	6.97E-04	1.78E-05	3.98E-06	1.34E-06	9.27E-08	1.04E-02	2.08E-03	1.04E-03	2.34E-06	3.47E-07	1.04E-03	9.70E-03
595514.00	4173103.00	8.79E-03	6.63E-04	1.67E-05	3.71E-06	1.25E-06	8.83E-08	9.48E-03	1.90E-03	9.43E-04	2.18E-06	3.19E-07	9.46E-04	8.82E-03
595514.00	4173123.00	8.07E-03	6.34E-04	1.56E-05	3.48E-06	1.17E-06	8.47E-08	8.72E-03	1.74E-03	8.63E-04	2.04E-06	2.95E-07	8.66E-04	8.07E-03
595515.00	4172097.00	5.32E-03	2.73E-02	4.54E-04	1.04E-04	1.40E-06	1.08E-05	3.32E-02	6.65E-03	3.62E-02	6.10E-05	4.24E-06	3.63E-02	3.39E-01
595531.70	4172736.24	1.10E-01	2.13E-03	6.46E-05	1.48E-05	6.22E-06	2.59E-07	1.12E-01	2.25E-02	3.02E-03	8.66E-06	8.97E-07	3.03E-03	2.83E-02
595534.00	4171763.00	1.56E-03	1.32E-03	2.35E-05	5.26E-06	3.69E-07	2.94E-07	2.91E-03	5.83E-04	3.32E-04	3.09E-06	9.84E-08	3.36E-04	3.13E-03
595534.00	4171783.00	1.63E-03	1.44E-03	2.63E-05	5.87E-06	3.84E-07	3.19E-07	3.10E-03	6.20E-04	3.66E-04	3.45E-06	1.06E-07	3.70E-04	3.45E-03
595534.00	4171803.00	1.72E-03	1.58E-03	3.03E-05	6.78E-06	4.04E-07	3.53E-07	3.33E-03	6.66E-04	4.12E-04	3.98E-06	1.16E-07	4.16E-04	3.88E-03
595534.00	4171823.00	1.81E-03	1.74E-03	3.56E-05	7.98E-06	4.27E-07	3.95E-07	3.59E-03	7.19E-04	4.68E-04	4.68E-06	1.29E-07	4.73E-04	4.41E-03
595534.00	4171843.00	1.92E-03	1.93E-03	4.26E-05	9.58E-06	4.52E-07	4.44E-07	3.90E-03	7.79E-04	5.39E-04	5.62E-06	1.44E-07	5.45E-04	5.08E-03
595534.00	4171863.00	2.03E-03	2.15E-03	5.23E-05	1.18E-05	4.80E-07	5.03E-07	4.25E-03	8.49E-04	6.31E-04	6.91E-06	1.62E-07	6.38E-04	5.95E-03

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595534.00	4171883.00	2.16E-03	2.43E-03	6.67E-05	1.50E-05	5.13E-07	5.81E-07	4.67E-03	9.35E-04	7.61E-04	8.83E-06	1.85E-07	7.70E-04	7.18E-03
595534.00	4171903.00	2.29E-03	2.74E-03	8.48E-05	1.92E-05	5.45E-07	6.64E-07	5.14E-03	1.03E-03	9.24E-04	1.13E-05	2.11E-07	9.36E-04	8.72E-03
595534.00	4171923.00	2.45E-03	3.14E-03	1.14E-04	2.58E-05	5.85E-07	7.79E-07	5.73E-03	1.15E-03	1.18E-03	1.51E-05	2.46E-07	1.19E-03	1.11E-02
595534.00	4171943.00	2.63E-03	3.65E-03	1.58E-04	3.59E-05	6.33E-07	9.32E-07	6.47E-03	1.29E-03	1.58E-03	2.11E-05	2.93E-07	1.60E-03	1.49E-02
595534.00	4172643.00	2.27E-01	3.34E-03	8.96E-05	2.05E-05	1.02E-05	3.87E-07	2.31E-01	4.62E-02	3.24E-03	1.20E-05	8.09E-07	3.25E-03	3.04E-02
595534.00	4172663.00	1.98E-01	3.01E-03	8.39E-05	1.92E-05	9.11E-06	3.53E-07	2.01E-01	4.03E-02	3.23E-03	1.13E-05	8.38E-07	3.24E-03	3.02E-02
595534.00	4172683.00	1.71E-01	2.73E-03	7.83E-05	1.79E-05	8.17E-06	3.24E-07	1.74E-01	3.48E-02	3.19E-03	1.05E-05	8.63E-07	3.20E-03	2.98E-02
595534.00	4172743.00	1.02E-01	2.09E-03	6.25E-05	1.43E-05	5.96E-06	2.54E-07	1.04E-01	2.09E-02	2.96E-03	8.38E-06	8.86E-07	2.97E-03	2.77E-02
595534.00	4172763.00	8.47E-02	1.92E-03	5.76E-05	1.32E-05	5.38E-06	2.36E-07	8.67E-02	1.73E-02	2.87E-03	7.73E-06	8.76E-07	2.88E-03	2.68E-02
595534.00	4172783.00	7.05E-02	1.78E-03	5.32E-05	1.21E-05	4.86E-06	2.19E-07	7.23E-02	1.45E-02	2.77E-03	7.13E-06	8.58E-07	2.78E-03	2.59E-02
595534.00	4172803.00	5.90E-02	1.65E-03	4.91E-05	1.12E-05	4.40E-06	2.05E-07	6.08E-02	1.22E-02	2.67E-03	6.58E-06	8.32E-07	2.68E-03	2.50E-02
595534.00	4172823.00	4.97E-02	1.53E-03	4.52E-05	1.03E-05	3.98E-06	1.91E-07	5.13E-02	1.03E-02	2.56E-03	6.06E-06	8.00E-07	2.57E-03	2.39E-02
595534.00	4172843.00	4.20E-02	1.43E-03	4.16E-05	9.51E-06	3.60E-06	1.79E-07	4.35E-02	8.70E-03	2.44E-03	5.58E-06	7.64E-07	2.45E-03	2.28E-02
595534.00	4172863.00	3.59E-02	1.33E-03	3.85E-05	8.77E-06	3.27E-06	1.68E-07	3.73E-02	7.46E-03	2.32E-03	5.15E-06	7.25E-07	2.32E-03	2.17E-02
595534.00	4172883.00	3.11E-02	1.25E-03	3.57E-05	8.13E-06	2.99E-06	1.58E-07	3.24E-02	6.48E-03	2.20E-03	4.77E-06	6.84E-07	2.20E-03	2.05E-02
595534.00	4172903.00	2.70E-02	1.17E-03	3.31E-05	7.52E-06	2.73E-06	1.49E-07	2.82E-02	5.64E-03	2.06E-03	4.42E-06	6.42E-07	2.07E-03	1.93E-02
595534.00	4172923.00	2.36E-02	1.10E-03	3.07E-05	6.97E-06	2.50E-06	1.41E-07	2.47E-02	4.95E-03	1.93E-03	4.09E-06	6.00E-07	1.93E-03	1.80E-02
595534.00	4172943.00	2.08E-02	1.04E-03	2.86E-05	6.48E-06	2.30E-06	1.34E-07	2.19E-02	4.38E-03	1.79E-03	3.80E-06	5.59E-07	1.80E-03	1.68E-02
595534.00	4172983.00	1.64E-02	9.28E-04	2.47E-05	5.58E-06	1.95E-06	1.20E-07	1.74E-02	3.47E-03	1.52E-03	3.27E-06	4.81E-07	1.53E-03	1.42E-02
595534.00	4173003.00	1.47E-02	8.79E-04	2.30E-05	5.19E-06	1.80E-06	1.14E-07	1.56E-02	3.12E-03	1.40E-03	3.04E-06	4.45E-07	1.40E-03	1.31E-02
595534.00	4173023.00	1.32E-02	8.34E-04	2.15E-05	4.83E-06	1.67E-06	1.09E-07	1.41E-02	2.82E-03	1.28E-03	2.84E-06	4.12E-07	1.28E-03	1.20E-02
595534.00	4173043.00	1.20E-02	7.92E-04	2.01E-05	4.50E-06	1.55E-06	1.03E-07	1.28E-02	2.56E-03	1.17E-03	2.64E-06	3.81E-07	1.17E-03	1.09E-02
595534.00	4173063.00	1.09E-02	7.54E-04	1.88E-05	4.20E-06	1.44E-06	9.87E-08	1.16E-02	2.33E-03	1.07E-03	2.47E-06	3.54E-07	1.07E-03	1.00E-02
595534.00	4173083.00	9.91E-03	7.18E-04	1.76E-05	3.93E-06	1.34E-06	9.43E-08	1.06E-02	2.13E-03	9.83E-04	2.31E-06	3.28E-07	9.86E-04	9.19E-03
595554.00	4171763.00	1.52E-03	1.27E-03	2.25E-05	5.04E-06	3.57E-07	2.81E-07	2.81E-03	5.63E-04	3.18E-04	2.96E-06	9.44E-08	3.21E-04	2.99E-03
595554.00	4171783.00	1.60E-03	1.39E-03	2.59E-05	5.80E-06	3.77E-07	3.12E-07	3.02E-03	6.04E-04	3.56E-04	3.40E-06	1.04E-07	3.59E-04	3.35E-03
595554.00	4171803.00	1.68E-03	1.52E-03	2.98E-05	6.69E-06	3.96E-07	3.45E-07	3.24E-03	6.48E-04	3.99E-04	3.92E-06	1.14E-07	4.04E-04	3.76E-03
595554.00	4171823.00	1.78E-03	1.68E-03	3.54E-05	7.94E-06	4.20E-07	3.87E-07	3.50E-03	7.00E-04	4.57E-04	4.66E-06	1.27E-07	4.62E-04	4.30E-03
595554.00	4171843.00	1.87E-03	1.86E-03	4.21E-05	9.46E-06	4.44E-07	4.32E-07	3.79E-03	7.57E-04	5.26E-04	5.55E-06	1.40E-07	5.31E-04	4.95E-03
595554.00	4171863.00	1.99E-03	2.08E-03	5.17E-05	1.16E-05	4.72E-07	4.90E-07	4.13E-03	8.25E-04	6.18E-04	6.83E-06	1.58E-07	6.25E-04	5.82E-03
595554.00	4171883.00	2.11E-03	2.34E-03	6.56E-05	1.48E-05	5.04E-07	5.63E-07	4.53E-03	9.07E-04	7.44E-04	8.68E-06	1.80E-07	7.53E-04	7.02E-03
595554.00	4171903.00	2.25E-03	2.65E-03	8.49E-05	1.92E-05	5.39E-07	6.49E-07	5.00E-03	1.00E-03	9.16E-04	1.13E-05	2.06E-07	9.27E-04	8.65E-03
595554.00	4171923.00	2.40E-03	3.04E-03	1.14E-04	2.60E-05	5.79E-07	7.60E-07	5.58E-03	1.12E-03	1.17E-03	1.52E-05	2.40E-07	1.19E-03	1.11E-02
595554.00	4171943.00	2.58E-03	3.52E-03	1.60E-04	3.65E-05	6.27E-07	9.06E-07	6.30E-03	1.26E-03	1.57E-03	2.14E-05	2.85E-07	1.59E-03	1.48E-02
595554.00	4171963.00	2.79E-03	4.16E-03	2.34E-04	5.35E-05	6.84E-07	1.11E-06	7.24E-03	1.45E-03	2.24E-03	3.14E-05	3.47E-07	2.27E-03	2.12E-02
595554.00	4172643.00	1.88E-01	3.60E-03	8.29E-05	1.89E-05	9.16E-06	4.03E-07	1.92E-01	3.84E-02	3.05E-03	1.11E-05	7.61E-07	3.06E-03	2.86E-02
595554.00	4172663.00	1.66E-01	3.23E-03	7.77E-05	1.78E-05	8.27E-06	3.68E-07	1.69E-01	3.38E-02	3.01E-03	1.04E-05	7.83E-07	3.02E-03	2.82E-02
595554.00	4172683.00	1.44E-01	2.92E-03	7.27E-05	1.66E-05	7.48E-06	3.36E-07	1.48E-01	2.95E-02	2.96E-03	9.75E-06	8.00E-07	2.97E-03	2.77E-02
595554.00	4172763.00	7.65E-02	2.04E-03	5.42E-05	1.24E-05	5.05E-06	2.44E-07	7.86E-02	1.57E-02	2.64E-03	7.27E-06	8.00E-07	2.65E-03	2.47E-02
595554.00	4172783.00	6.48E-02	1.88E-03	5.02E-05	1.15E-05	4.59E-06	2.27E-07	6.68E-02	1.34E-02	2.55E-03	6.73E-06	7.82E-07	2.56E-03	2.38E-02
595554.00	4172803.00	5.52E-02	1.74E-03	4.65E-05	1.06E-05	4.18E-06	2.12E-07	5.70E-02	1.14E-02	2.45E-03	6.23E-06	7.58E-07	2.46E-03	2.29E-02
595554.00	4172843.00	4.05E-02	1.50E-03	3.98E-05	9.09E-06	3.46E-06	1.85E-07	4.21E-02	8.42E-03	2.25E-03	5.33E-06	6.97E-07	2.25E-03	2.10E-02
595554.00	4172863.00	3.50E-02	1.40E-03	3.69E-05	8.42E-06	3.16E-06	1.73E-07	3.65E-02	7.29E-03	2.13E-03	4.94E-06	6.62E-07	2.14E-03	2.00E-02
595554.00	4172883.00	3.06E-02	1.31E-03	3.44E-05	7.83E-06	2.90E-06	1.63E-07	3.19E-02	6.39E-03	2.02E-03	4.60E-06	6.26E-07	2.03E-03	1.89E-02
595554.00	4172903.00	2.68E-02	1.23E-03	3.20E-05	7.28E-06	2.66E-06	1.54E-07	2.81E-02	5.61E-03	1.91E-03	4.27E-06	5.90E-07	1.91E-03	1.78E-02
595554.00	4172923.00	2.36E-02	1.15E-03	2.98E-05	6.77E-06	2.45E-06	1.45E-07	2.48E-02	4.96E-03	1.79E-03	3.97E-06	5.53E-07	1.79E-03	1.67E-02
595554.00	4172943.00	2.09E-02	1.09E-03	2.78E-05	6.30E-06	2.25E-06	1.37E-07	2.20E-02	4.40E-03	1.66E-03	3.70E-06	5.17E-07	1.67E-03	1.55E-02
595554.00	4172963.00	1.86E-02	1.02E-03	2.59E-05	5.87E-06	2.08E-06	1.30E-07	1.96E-02	3.93E-03	1.54E-03	3.44E-06	4.82E-07	1.55E-03	1.44E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595554.00	4172983.00	1.66E-02	9.66E-04	2.42E-05	5.47E-06	1.92E-06	1.23E-07	1.76E-02	3.52E-03	1.42E-03	3.21E-06	4.48E-07	1.43E-03	1.33E-02
595554.00	4173003.00	1.49E-02	9.14E-04	2.26E-05	5.10E-06	1.78E-06	1.17E-07	1.59E-02	3.17E-03	1.31E-03	2.99E-06	4.17E-07	1.31E-03	1.23E-02
595554.00	4173023.00	1.35E-02	8.66E-04	2.11E-05	4.76E-06	1.65E-06	1.11E-07	1.44E-02	2.87E-03	1.21E-03	2.79E-06	3.87E-07	1.21E-03	1.13E-02
595554.00	4173043.00	1.22E-02	8.21E-04	1.98E-05	4.44E-06	1.53E-06	1.06E-07	1.30E-02	2.61E-03	1.11E-03	2.61E-06	3.60E-07	1.11E-03	1.04E-02
595554.00	4173063.00	1.11E-02	7.80E-04	1.86E-05	4.16E-06	1.43E-06	1.01E-07	1.19E-02	2.38E-03	1.02E-03	2.44E-06	3.35E-07	1.02E-03	9.53E-03
595554.00	4173083.00	1.01E-02	7.43E-04	1.74E-05	3.90E-06	1.33E-06	9.63E-08	1.09E-02	2.18E-03	9.40E-04	2.29E-06	3.12E-07	9.42E-04	8.79E-03
595568.33	4173021.18	1.37E-02	8.92E-04	2.10E-05	4.73E-06	1.65E-06	1.14E-07	1.46E-02	2.92E-03	1.16E-03	2.77E-06	3.73E-07	1.17E-03	1.09E-02
595574.00	4171743.00	1.42E-03	1.15E-03	2.04E-05	4.57E-06	3.41E-07	2.59E-07	2.60E-03	5.20E-04	2.85E-04	2.68E-06	8.78E-08	2.88E-04	2.68E-03
595574.00	4171763.00	1.50E-03	1.25E-03	2.31E-05	5.18E-06	3.59E-07	2.85E-07	2.78E-03	5.56E-04	3.16E-04	3.04E-06	9.57E-08	3.19E-04	2.98E-03
595574.00	4171783.00	1.57E-03	1.35E-03	2.59E-05	5.80E-06	3.71E-07	3.05E-07	2.95E-03	5.89E-04	3.49E-04	3.40E-06	1.02E-07	3.53E-04	3.29E-03
595574.00	4171803.00	1.66E-03	1.51E-03	3.08E-05	6.91E-06	4.00E-07	3.51E-07	3.21E-03	6.41E-04	4.02E-04	4.06E-06	1.16E-07	4.06E-04	3.79E-03
595574.00	4171823.00	1.75E-03	1.66E-03	3.62E-05	8.14E-06	4.24E-07	3.92E-07	3.46E-03	6.91E-04	4.59E-04	4.78E-06	1.28E-07	4.64E-04	4.33E-03
595574.00	4171843.00	1.86E-03	1.85E-03	4.38E-05	9.84E-06	4.51E-07	4.44E-07	3.77E-03	7.53E-04	5.40E-04	5.77E-06	1.44E-07	5.46E-04	5.09E-03
595574.00	4171863.00	1.95E-03	2.01E-03	5.12E-05	1.15E-05	4.66E-07	4.78E-07	4.02E-03	8.05E-04	6.16E-04	6.77E-06	1.54E-07	6.23E-04	5.81E-03
595574.00	4171883.00	2.07E-03	2.26E-03	6.44E-05	1.45E-05	4.97E-07	5.46E-07	4.41E-03	8.83E-04	7.44E-04	8.52E-06	1.75E-07	7.53E-04	7.02E-03
595574.00	4171903.00	2.22E-03	2.59E-03	8.54E-05	1.93E-05	5.37E-07	6.40E-07	4.91E-03	9.83E-04	9.38E-04	1.13E-05	2.04E-07	9.50E-04	8.86E-03
595574.00	4171923.00	2.37E-03	2.97E-03	1.15E-04	2.60E-05	5.78E-07	7.48E-07	5.48E-03	1.10E-03	1.20E-03	1.53E-05	2.37E-07	1.22E-03	1.14E-02
595574.00	4171943.00	2.55E-03	3.47E-03	1.62E-04	3.69E-05	6.28E-07	8.94E-07	6.22E-03	1.24E-03	1.62E-03	2.17E-05	2.82E-07	1.64E-03	1.53E-02
595574.00	4171963.00	2.76E-03	4.11E-03	2.41E-04	5.49E-05	6.87E-07	1.09E-06	7.17E-03	1.43E-03	2.30E-03	3.22E-05	3.43E-07	2.33E-03	2.18E-02
595574.00	4171983.00	3.00E-03	4.98E-03	3.81E-04	8.69E-05	7.58E-07	1.37E-06	8.45E-03	1.69E-03	3.49E-03	5.10E-05	4.31E-07	3.54E-03	3.30E-02
595574.00	4172643.00	1.58E-01	3.83E-03	7.69E-05	1.76E-05	8.28E-06	4.17E-07	1.62E-01	3.24E-02	2.89E-03	1.03E-05	7.18E-07	2.90E-03	2.70E-02
595574.00	4172663.00	1.40E-01	3.44E-03	7.23E-05	1.65E-05	7.53E-06	3.80E-07	1.44E-01	2.88E-02	2.83E-03	9.70E-06	7.33E-07	2.84E-03	2.65E-02
595574.00	4172683.00	1.24E-01	3.11E-03	6.78E-05	1.55E-05	6.85E-06	3.48E-07	1.27E-01	2.54E-02	2.77E-03	9.09E-06	7.45E-07	2.78E-03	2.59E-02
595574.00	4172763.00	6.95E-02	2.16E-03	5.12E-05	1.17E-05	4.74E-06	2.52E-07	7.17E-02	1.43E-02	2.45E-03	6.86E-06	7.34E-07	2.46E-03	2.29E-02
595574.00	4172783.00	5.99E-02	1.99E-03	4.76E-05	1.09E-05	4.34E-06	2.35E-07	6.19E-02	1.24E-02	2.36E-03	6.38E-06	7.16E-07	2.37E-03	2.21E-02
595574.00	4172803.00	5.16E-02	1.83E-03	4.42E-05	1.01E-05	3.97E-06	2.19E-07	5.35E-02	1.07E-02	2.27E-03	5.92E-06	6.94E-07	2.28E-03	2.12E-02
595574.00	4172823.00	4.48E-02	1.70E-03	4.11E-05	9.38E-06	3.64E-06	2.04E-07	4.65E-02	9.30E-03	2.18E-03	5.51E-06	6.68E-07	2.18E-03	2.04E-02
595574.00	4172843.00	3.89E-02	1.58E-03	3.82E-05	8.71E-06	3.33E-06	1.91E-07	4.05E-02	8.10E-03	2.08E-03	5.11E-06	6.39E-07	2.09E-03	1.94E-02
595574.00	4172863.00	3.40E-02	1.47E-03	3.55E-05	8.11E-06	3.06E-06	1.79E-07	3.55E-02	7.10E-03	1.98E-03	4.76E-06	6.08E-07	1.98E-03	1.85E-02
595574.00	4172883.00	2.99E-02	1.37E-03	3.31E-05	7.56E-06	2.81E-06	1.68E-07	3.13E-02	6.26E-03	1.88E-03	4.43E-06	5.76E-07	1.88E-03	1.75E-02
595574.00	4172903.00	2.64E-02	1.29E-03	3.09E-05	7.04E-06	2.59E-06	1.59E-07	2.77E-02	5.54E-03	1.77E-03	4.13E-06	5.44E-07	1.77E-03	1.65E-02
595574.00	4172923.00	2.33E-02	1.20E-03	2.89E-05	6.56E-06	2.38E-06	1.49E-07	2.46E-02	4.91E-03	1.66E-03	3.85E-06	5.11E-07	1.66E-03	1.55E-02
595574.00	4172943.00	2.07E-02	1.13E-03	2.69E-05	6.12E-06	2.20E-06	1.41E-07	2.19E-02	4.38E-03	1.55E-03	3.59E-06	4.79E-07	1.55E-03	1.45E-02
595574.00	4172963.00	1.85E-02	1.07E-03	2.52E-05	5.72E-06	2.04E-06	1.33E-07	1.96E-02	3.93E-03	1.44E-03	3.36E-06	4.49E-07	1.44E-03	1.35E-02
595574.00	4172983.00	1.66E-02	1.00E-03	2.36E-05	5.34E-06	1.88E-06	1.26E-07	1.76E-02	3.53E-03	1.33E-03	3.13E-06	4.19E-07	1.34E-03	1.25E-02
595574.00	4173003.00	1.50E-02	9.47E-04	2.21E-05	4.99E-06	1.75E-06	1.20E-07	1.60E-02	3.19E-03	1.23E-03	2.93E-06	3.91E-07	1.24E-03	1.15E-02
595574.00	4173023.00	1.36E-02	8.97E-04	2.07E-05	4.67E-06	1.63E-06	1.14E-07	1.45E-02	2.90E-03	1.14E-03	2.74E-06	3.65E-07	1.14E-03	1.06E-02
595574.00	4173043.00	1.23E-02	8.50E-04	1.95E-05	4.38E-06	1.52E-06	1.08E-07	1.32E-02	2.64E-03	1.05E-03	2.57E-06	3.40E-07	1.05E-03	9.84E-03
595574.00	4173063.00	1.12E-02	8.07E-04	1.83E-05	4.10E-06	1.42E-06	1.03E-07	1.21E-02	2.42E-03	9.71E-04	2.41E-06	3.18E-07	9.73E-04	9.08E-03
595574.00	4173083.00	1.03E-02	7.67E-04	1.72E-05	3.85E-06	1.32E-06	9.83E-08	1.11E-02	2.22E-03	8.98E-04	2.26E-06	2.97E-07	9.00E-04	8.39E-03
595594.00	4171743.00	1.40E-03	1.12E-03	2.03E-05	4.54E-06	3.35E-07	2.53E-07	2.54E-03	5.08E-04	2.79E-04	2.66E-06	8.58E-08	2.82E-04	2.63E-03
595594.00	4171763.00	1.47E-03	1.22E-03	2.30E-05	5.15E-06	3.53E-07	2.78E-07	2.71E-03	5.43E-04	3.11E-04	3.02E-06	9.36E-08	3.15E-04	2.93E-03
595594.00	4171783.00	1.53E-03	1.30E-03	2.55E-05	5.71E-06	3.64E-07	2.96E-07	2.87E-03	5.74E-04	3.43E-04	3.35E-06	9.90E-08	3.47E-04	3.23E-03
595594.00	4171803.00	1.63E-03	1.47E-03	3.07E-05	6.90E-06	3.95E-07	3.43E-07	3.14E-03	6.28E-04	4.02E-04	4.05E-06	1.14E-07	4.06E-04	3.78E-03
595594.00	4171823.00	1.72E-03	1.63E-03	3.62E-05	8.13E-06	4.19E-07	3.84E-07	3.39E-03	6.78E-04	4.62E-04	4.77E-06	1.26E-07	4.67E-04	4.36E-03
595594.00	4171843.00	1.82E-03	1.81E-03	4.35E-05	9.79E-06	4.47E-07	4.34E-07	3.69E-03	7.39E-04	5.44E-04	5.75E-06	1.41E-07	5.50E-04	5.13E-03
595594.00	4171863.00	1.92E-03	1.97E-03	5.10E-05	1.15E-05	4.62E-07	4.67E-07	3.95E-03	7.89E-04	6.26E-04	6.74E-06	1.51E-07	6.33E-04	5.90E-03
595594.00	4171883.00	2.04E-03	2.22E-03	6.41E-05	1.45E-05	4.96E-07	5.36E-07	4.34E-03	8.69E-04	7.66E-04	8.48E-06	1.72E-07	7.74E-04	7.22E-03

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595594.00	4171903.00	2.19E-03	2.55E-03	8.46E-05	1.91E-05	5.37E-07	6.30E-07	4.85E-03	9.70E-04	9.75E-04	1.12E-05	2.01E-07	9.87E-04	9.20E-03
595594.00	4171923.00	2.35E-03	2.95E-03	1.14E-04	2.59E-05	5.82E-07	7.43E-07	5.45E-03	1.09E-03	1.27E-03	1.52E-05	2.35E-07	1.28E-03	1.20E-02
595594.00	4171943.00	2.54E-03	3.47E-03	1.62E-04	3.68E-05	6.34E-07	8.92E-07	6.21E-03	1.24E-03	1.71E-03	2.16E-05	2.81E-07	1.74E-03	1.62E-02
595594.00	4171963.00	2.75E-03	4.16E-03	2.45E-04	5.58E-05	6.98E-07	1.10E-06	7.22E-03	1.44E-03	2.43E-03	3.28E-05	3.45E-07	2.46E-03	2.30E-02
595594.00	4172783.00	5.51E-02	2.08E-03	4.51E-05	1.03E-05	4.09E-06	2.42E-07	5.72E-02	1.14E-02	2.20E-03	6.05E-06	6.60E-07	2.21E-03	2.06E-02
595594.00	4172803.00	4.80E-02	1.92E-03	4.20E-05	9.60E-06	3.76E-06	2.25E-07	5.00E-02	1.00E-02	2.11E-03	5.63E-06	6.39E-07	2.12E-03	1.97E-02
595594.00	4172823.00	4.21E-02	1.78E-03	3.92E-05	8.96E-06	3.46E-06	2.10E-07	4.40E-02	8.79E-03	2.02E-03	5.26E-06	6.15E-07	2.03E-03	1.89E-02
595594.00	4172863.00	3.27E-02	1.54E-03	3.42E-05	7.80E-06	2.94E-06	1.84E-07	3.43E-02	6.86E-03	1.84E-03	4.58E-06	5.61E-07	1.85E-03	1.72E-02
595594.00	4172883.00	2.89E-02	1.43E-03	3.19E-05	7.28E-06	2.71E-06	1.73E-07	3.04E-02	6.08E-03	1.74E-03	4.27E-06	5.32E-07	1.75E-03	1.63E-02
595594.00	4172903.00	2.56E-02	1.34E-03	2.98E-05	6.80E-06	2.50E-06	1.63E-07	2.70E-02	5.40E-03	1.65E-03	3.99E-06	5.03E-07	1.65E-03	1.54E-02
595594.00	4172923.00	2.29E-02	1.25E-03	2.79E-05	6.36E-06	2.31E-06	1.53E-07	2.41E-02	4.83E-03	1.55E-03	3.73E-06	4.74E-07	1.55E-03	1.45E-02
595594.00	4172943.00	2.05E-02	1.18E-03	2.62E-05	5.95E-06	2.14E-06	1.45E-07	2.17E-02	4.33E-03	1.45E-03	3.49E-06	4.46E-07	1.45E-03	1.35E-02
595594.00	4172963.00	1.84E-02	1.11E-03	2.46E-05	5.58E-06	1.99E-06	1.37E-07	1.95E-02	3.90E-03	1.35E-03	3.27E-06	4.19E-07	1.36E-03	1.26E-02
595594.00	4172983.00	1.66E-02	1.04E-03	2.31E-05	5.22E-06	1.85E-06	1.29E-07	1.76E-02	3.52E-03	1.26E-03	3.06E-06	3.92E-07	1.26E-03	1.17E-02
595594.00	4173003.00	1.50E-02	9.83E-04	2.16E-05	4.90E-06	1.72E-06	1.23E-07	1.60E-02	3.20E-03	1.17E-03	2.87E-06	3.67E-07	1.17E-03	1.09E-02
595594.00	4173023.00	1.36E-02	9.30E-04	2.04E-05	4.60E-06	1.60E-06	1.16E-07	1.46E-02	2.91E-03	1.08E-03	2.70E-06	3.44E-07	1.08E-03	1.01E-02
595614.00	4171743.00	1.37E-03	1.09E-03	2.02E-05	4.53E-06	3.31E-07	2.48E-07	2.49E-03	4.98E-04	2.78E-04	2.66E-06	8.43E-08	2.81E-04	2.62E-03
595614.00	4171763.00	1.44E-03	1.18E-03	2.29E-05	5.14E-06	3.47E-07	2.70E-07	2.65E-03	5.30E-04	3.12E-04	3.01E-06	9.13E-08	3.15E-04	2.94E-03
595614.00	4171783.00	1.51E-03	1.27E-03	2.55E-05	5.71E-06	3.60E-07	2.89E-07	2.81E-03	5.62E-04	3.43E-04	3.35E-06	9.70E-08	3.47E-04	3.23E-03
595614.00	4171803.00	1.61E-03	1.44E-03	3.08E-05	6.91E-06	3.92E-07	3.37E-07	3.09E-03	6.17E-04	4.07E-04	4.06E-06	1.12E-07	4.11E-04	3.83E-03
595614.00	4171823.00	1.70E-03	1.61E-03	3.64E-05	8.18E-06	4.18E-07	3.79E-07	3.35E-03	6.70E-04	4.75E-04	4.80E-06	1.24E-07	4.80E-04	4.47E-03
595614.00	4171843.00	1.81E-03	1.80E-03	4.38E-05	9.86E-06	4.47E-07	4.30E-07	3.66E-03	7.32E-04	5.65E-04	5.78E-06	1.40E-07	5.71E-04	5.32E-03
595614.00	4171863.00	1.90E-03	1.94E-03	5.10E-05	1.15E-05	4.62E-07	4.60E-07	3.90E-03	7.80E-04	6.48E-04	6.74E-06	1.49E-07	6.55E-04	6.11E-03
595614.00	4171883.00	2.02E-03	2.21E-03	6.39E-05	1.44E-05	4.97E-07	5.31E-07	4.31E-03	8.62E-04	8.01E-04	8.46E-06	1.71E-07	8.10E-04	7.55E-03
595614.00	4171903.00	2.18E-03	2.56E-03	8.39E-05	1.90E-05	5.41E-07	6.28E-07	4.84E-03	9.68E-04	1.03E-03	1.11E-05	2.00E-07	1.04E-03	9.73E-03
595614.00	4171923.00	2.35E-03	2.99E-03	1.13E-04	2.57E-05	5.90E-07	7.48E-07	5.48E-03	1.10E-03	1.36E-03	1.51E-05	2.37E-07	1.37E-03	1.28E-02
595614.00	4171943.00	2.54E-03	3.55E-03	1.60E-04	3.63E-05	6.45E-07	9.04E-07	6.29E-03	1.26E-03	1.84E-03	2.13E-05	2.85E-07	1.86E-03	1.73E-02
595614.00	4171963.00	2.77E-03	4.31E-03	2.44E-04	5.56E-05	7.12E-07	1.12E-06	7.38E-03	1.48E-03	2.59E-03	3.26E-05	3.52E-07	2.63E-03	2.45E-02
595614.00	4172783.00	5.08E-02	2.18E-03	4.30E-05	9.81E-06	3.86E-06	2.48E-07	5.31E-02	1.06E-02	2.06E-03	5.76E-06	6.10E-07	2.06E-03	1.93E-02
595614.00	4172803.00	4.48E-02	2.01E-03	4.02E-05	9.17E-06	3.56E-06	2.31E-07	4.69E-02	9.38E-03	1.98E-03	5.38E-06	5.91E-07	1.98E-03	1.85E-02
595614.00	4172823.00	3.97E-02	1.86E-03	3.75E-05	8.57E-06	3.30E-06	2.16E-07	4.16E-02	8.31E-03	1.89E-03	5.03E-06	5.69E-07	1.90E-03	1.77E-02
595614.00	4172863.00	3.14E-02	1.61E-03	3.29E-05	7.51E-06	2.83E-06	1.89E-07	3.30E-02	6.61E-03	1.72E-03	4.41E-06	5.20E-07	1.73E-03	1.61E-02
595614.00	4172883.00	2.78E-02	1.49E-03	3.08E-05	7.01E-06	2.61E-06	1.77E-07	2.94E-02	5.87E-03	1.63E-03	4.12E-06	4.94E-07	1.63E-03	1.52E-02
595614.00	4172903.00	2.48E-02	1.39E-03	2.88E-05	6.57E-06	2.41E-06	1.67E-07	2.63E-02	5.26E-03	1.54E-03	3.85E-06	4.68E-07	1.54E-03	1.44E-02
595614.00	4172923.00	2.23E-02	1.31E-03	2.71E-05	6.17E-06	2.24E-06	1.57E-07	2.37E-02	4.74E-03	1.45E-03	3.62E-06	4.42E-07	1.46E-03	1.36E-02
595614.00	4172943.00	2.01E-02	1.22E-03	2.55E-05	5.79E-06	2.08E-06	1.48E-07	2.14E-02	4.27E-03	1.36E-03	3.40E-06	4.17E-07	1.37E-03	1.27E-02
595614.00	4172963.00	1.81E-02	1.15E-03	2.40E-05	5.44E-06	1.94E-06	1.40E-07	1.93E-02	3.86E-03	1.28E-03	3.19E-06	3.93E-07	1.28E-03	1.19E-02
595614.00	4172983.00	1.64E-02	1.08E-03	2.25E-05	5.11E-06	1.81E-06	1.33E-07	1.75E-02	3.51E-03	1.19E-03	3.00E-06	3.69E-07	1.19E-03	1.11E-02
595616.96	4172890.78	2.65E-02	1.46E-03	2.98E-05	6.80E-06	2.52E-06	1.74E-07	2.80E-02	5.60E-03	1.58E-03	3.99E-06	4.78E-07	1.58E-03	1.48E-02
595634.00	4171743.00	1.35E-03	1.05E-03	2.00E-05	4.48E-06	3.23E-07	2.37E-07	2.43E-03	4.85E-04	2.76E-04	2.63E-06	8.12E-08	2.79E-04	2.60E-03
595634.00	4171763.00	1.42E-03	1.16E-03	2.30E-05	5.16E-06	3.46E-07	2.67E-07	2.62E-03	5.23E-04	3.15E-04	3.03E-06	9.04E-08	3.18E-04	2.97E-03
595634.00	4171783.00	1.50E-03	1.27E-03	2.64E-05	5.94E-06	3.65E-07	2.95E-07	2.81E-03	5.62E-04	3.60E-04	3.48E-06	9.90E-08	3.64E-04	3.39E-03
595634.00	4171803.00	1.59E-03	1.41E-03	3.08E-05	6.93E-06	3.89E-07	3.30E-07	3.04E-03	6.08E-04	4.18E-04	4.07E-06	1.10E-07	4.22E-04	3.94E-03
595634.00	4171823.00	1.68E-03	1.60E-03	3.66E-05	8.23E-06	4.18E-07	3.75E-07	3.33E-03	6.66E-04	4.93E-04	4.83E-06	1.23E-07	4.98E-04	4.64E-03
595634.00	4171843.00	1.79E-03	1.81E-03	4.40E-05	9.92E-06	4.48E-07	4.27E-07	3.65E-03	7.31E-04	5.92E-04	5.82E-06	1.39E-07	5.98E-04	5.57E-03
595634.00	4171863.00	1.90E-03	1.98E-03	5.28E-05	1.19E-05	4.71E-07	4.70E-07	3.94E-03	7.89E-04	7.03E-04	6.99E-06	1.52E-07	7.10E-04	6.62E-03
595634.00	4171883.00	2.02E-03	2.23E-03	6.41E-05	1.45E-05	5.03E-07	5.32E-07	4.33E-03	8.66E-04	8.54E-04	8.50E-06	1.71E-07	8.62E-04	8.04E-03
595634.00	4171903.00	2.17E-03	2.59E-03	8.25E-05	1.87E-05	5.46E-07	6.27E-07	4.87E-03	9.74E-04	1.09E-03	1.10E-05	2.00E-07	1.11E-03	1.03E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595634.00	4171923.00	2.36E-03	3.09E-03	1.12E-04	2.53E-05	6.01E-07	7.62E-07	5.59E-03	1.12E-03	1.46E-03	1.49E-05	2.41E-07	1.48E-03	1.38E-02
595634.00	4171943.00	2.57E-03	3.72E-03	1.57E-04	3.55E-05	6.60E-07	9.29E-07	6.48E-03	1.30E-03	1.98E-03	2.08E-05	2.92E-07	2.00E-03	1.87E-02
595634.00	4171963.00	2.81E-03	4.57E-03	2.39E-04	5.43E-05	7.31E-07	1.16E-06	7.68E-03	1.54E-03	2.79E-03	3.19E-05	3.65E-07	2.82E-03	2.63E-02
595634.00	4172783.00	4.69E-02	2.27E-03	4.09E-05	9.34E-06	3.64E-06	2.54E-07	4.92E-02	9.85E-03	1.93E-03	5.48E-06	5.66E-07	1.94E-03	1.81E-02
595634.00	4172803.00	4.18E-02	2.09E-03	3.84E-05	8.76E-06	3.38E-06	2.37E-07	4.39E-02	8.79E-03	1.85E-03	5.14E-06	5.48E-07	1.86E-03	1.73E-02
595634.00	4172823.00	3.72E-02	1.94E-03	3.60E-05	8.21E-06	3.13E-06	2.21E-07	3.92E-02	7.84E-03	1.77E-03	4.82E-06	5.28E-07	1.78E-03	1.66E-02
595634.00	4172843.00	3.32E-02	1.79E-03	3.37E-05	7.69E-06	2.91E-06	2.07E-07	3.51E-02	7.02E-03	1.69E-03	4.51E-06	5.06E-07	1.70E-03	1.58E-02
595634.00	4172883.00	2.67E-02	1.55E-03	2.97E-05	6.77E-06	2.51E-06	1.82E-07	2.83E-02	5.66E-03	1.53E-03	3.97E-06	4.60E-07	1.53E-03	1.43E-02
595634.00	4172903.00	2.40E-02	1.45E-03	2.79E-05	6.36E-06	2.33E-06	1.71E-07	2.55E-02	5.10E-03	1.45E-03	3.73E-06	4.36E-07	1.45E-03	1.35E-02
595634.00	4172923.00	2.17E-02	1.35E-03	2.63E-05	5.98E-06	2.17E-06	1.61E-07	2.31E-02	4.61E-03	1.37E-03	3.51E-06	4.13E-07	1.37E-03	1.28E-02
595634.00	4172943.00	1.96E-02	1.27E-03	2.47E-05	5.62E-06	2.02E-06	1.52E-07	2.09E-02	4.18E-03	1.28E-03	3.30E-06	3.91E-07	1.29E-03	1.20E-02
595637.78	4172033.56	4.14E-03	1.18E-02	8.53E-04	1.95E-04	1.11E-06	3.17E-06	1.70E-02	3.40E-03	1.45E-02	1.15E-04	1.02E-06	1.46E-02	1.36E-01
595654.00	4171743.00	1.33E-03	1.06E-03	2.02E-05	4.54E-06	3.26E-07	2.39E-07	2.42E-03	4.83E-04	2.83E-04	2.66E-06	8.16E-08	2.86E-04	2.66E-03
595654.00	4171763.00	1.40E-03	1.16E-03	2.31E-05	5.18E-06	3.45E-07	2.64E-07	2.60E-03	5.19E-04	3.22E-04	3.04E-06	8.95E-08	3.25E-04	3.03E-03
595654.00	4171783.00	1.49E-03	1.29E-03	2.66E-05	5.99E-06	3.67E-07	2.94E-07	2.81E-03	5.61E-04	3.72E-04	3.51E-06	9.87E-08	3.76E-04	3.50E-03
595654.00	4171803.00	1.57E-03	1.39E-03	3.05E-05	6.85E-06	3.83E-07	3.18E-07	2.99E-03	5.98E-04	4.24E-04	4.02E-06	1.06E-07	4.28E-04	3.99E-03
595654.00	4171823.00	1.68E-03	1.62E-03	3.68E-05	8.30E-06	4.20E-07	3.74E-07	3.34E-03	6.68E-04	5.18E-04	4.87E-06	1.23E-07	5.23E-04	4.88E-03
595654.00	4171843.00	1.79E-03	1.84E-03	4.43E-05	1.00E-05	4.52E-07	4.29E-07	3.68E-03	7.37E-04	6.28E-04	5.87E-06	1.40E-07	6.34E-04	5.91E-03
595654.00	4171863.00	1.92E-03	2.11E-03	5.43E-05	1.23E-05	4.89E-07	4.97E-07	4.10E-03	8.20E-04	7.75E-04	7.19E-06	1.60E-07	7.83E-04	7.30E-03
595654.00	4171883.00	2.04E-03	2.34E-03	6.60E-05	1.49E-05	5.17E-07	5.53E-07	4.46E-03	8.92E-04	9.41E-04	8.76E-06	1.78E-07	9.50E-04	8.86E-03
595654.00	4171903.00	2.20E-03	2.72E-03	8.33E-05	1.89E-05	5.60E-07	6.48E-07	5.02E-03	1.00E-03	1.19E-03	1.11E-05	2.07E-07	1.21E-03	1.12E-02
595654.00	4171923.00	2.39E-03	3.25E-03	1.10E-04	2.50E-05	6.14E-07	7.83E-07	5.78E-03	1.16E-03	1.58E-03	1.46E-05	2.48E-07	1.59E-03	1.48E-02
595654.00	4171943.00	2.61E-03	3.96E-03	1.53E-04	3.46E-05	6.77E-07	9.65E-07	6.76E-03	1.35E-03	2.13E-03	2.03E-05	3.04E-07	2.15E-03	2.01E-02
595654.00	4171963.00	2.87E-03	4.92E-03	2.29E-04	5.19E-05	7.51E-07	1.21E-06	8.07E-03	1.61E-03	2.96E-03	3.05E-05	3.80E-07	2.99E-03	2.79E-02
595654.00	4172803.00	3.89E-02	2.17E-03	3.67E-05	8.38E-06	3.20E-06	2.42E-07	4.11E-02	8.23E-03	1.75E-03	4.92E-06	5.11E-07	1.75E-03	1.63E-02
595654.00	4172823.00	3.50E-02	2.01E-03	3.45E-05	7.87E-06	2.98E-06	2.26E-07	3.70E-02	7.40E-03	1.67E-03	4.62E-06	4.92E-07	1.68E-03	1.56E-02
595654.00	4172843.00	3.14E-02	1.86E-03	3.24E-05	7.39E-06	2.77E-06	2.11E-07	3.33E-02	6.66E-03	1.59E-03	4.34E-06	4.72E-07	1.60E-03	1.49E-02
595654.00	4172883.00	2.56E-02	1.61E-03	2.87E-05	6.54E-06	2.41E-06	1.86E-07	2.73E-02	5.45E-03	1.44E-03	3.84E-06	4.30E-07	1.45E-03	1.35E-02
595674.00	4171743.00	1.32E-03	1.06E-03	2.03E-05	4.56E-06	3.25E-07	2.36E-07	2.40E-03	4.80E-04	2.91E-04	2.68E-06	8.10E-08	2.94E-04	2.74E-03
595674.00	4171763.00	1.39E-03	1.17E-03	2.32E-05	5.22E-06	3.46E-07	2.62E-07	2.59E-03	5.18E-04	3.34E-04	3.06E-06	8.90E-08	3.37E-04	3.14E-03
595674.00	4171783.00	1.48E-03	1.30E-03	2.68E-05	6.03E-06	3.69E-07	2.93E-07	2.81E-03	5.62E-04	3.89E-04	3.54E-06	9.87E-08	3.93E-04	3.66E-03
595674.00	4171803.00	1.55E-03	1.40E-03	3.04E-05	6.85E-06	3.85E-07	3.16E-07	2.99E-03	5.98E-04	4.42E-04	4.02E-06	1.06E-07	4.46E-04	4.16E-03
595674.00	4171823.00	1.68E-03	1.61E-03	3.70E-05	8.35E-06	4.20E-07	3.72E-07	3.34E-03	6.68E-04	5.49E-04	4.90E-06	1.23E-07	5.54E-04	5.17E-03
595674.00	4171843.00	1.78E-03	1.81E-03	4.35E-05	9.83E-06	4.47E-07	4.14E-07	3.64E-03	7.28E-04	6.47E-04	5.77E-06	1.36E-07	6.53E-04	6.09E-03
595674.00	4171863.00	1.90E-03	2.07E-03	5.25E-05	1.19E-05	4.81E-07	4.76E-07	4.04E-03	8.08E-04	7.92E-04	6.97E-06	1.54E-07	7.99E-04	7.45E-03
595674.00	4171883.00	2.05E-03	2.42E-03	6.53E-05	1.48E-05	5.23E-07	5.60E-07	4.56E-03	9.12E-04	9.99E-04	8.67E-06	1.80E-07	1.01E-03	9.40E-03
595674.00	4171903.00	2.23E-03	2.89E-03	8.33E-05	1.89E-05	5.73E-07	6.72E-07	5.22E-03	1.04E-03	1.29E-03	1.11E-05	2.14E-07	1.30E-03	1.22E-02
595674.00	4171923.00	2.44E-03	3.49E-03	1.09E-04	2.48E-05	6.31E-07	8.19E-07	6.07E-03	1.21E-03	1.70E-03	1.46E-05	2.59E-07	1.72E-03	1.60E-02
595674.00	4171943.00	2.68E-03	4.29E-03	1.49E-04	3.39E-05	6.98E-07	1.01E-06	7.16E-03	1.43E-03	2.28E-03	1.99E-05	3.19E-07	2.30E-03	2.15E-02
595674.00	4171963.00	2.96E-03	5.36E-03	2.19E-04	4.97E-05	7.73E-07	1.27E-06	8.59E-03	1.72E-03	3.11E-03	2.92E-05	3.99E-07	3.14E-03	2.93E-02
595674.00	4172803.00	3.62E-02	2.23E-03	3.52E-05	8.03E-06	3.02E-06	2.46E-07	3.85E-02	7.71E-03	1.65E-03	4.71E-06	4.78E-07	1.65E-03	1.54E-02
595674.00	4172823.00	3.28E-02	2.07E-03	3.32E-05	7.56E-06	2.83E-06	2.30E-07	3.49E-02	6.98E-03	1.58E-03	4.44E-06	4.60E-07	1.58E-03	1.48E-02
595674.00	4172843.00	2.96E-02	1.92E-03	3.12E-05	7.11E-06	2.64E-06	2.15E-07	3.16E-02	6.32E-03	1.50E-03	4.17E-06	4.42E-07	1.51E-03	1.41E-02
595694.00	4171743.00	1.32E-03	1.04E-03	2.03E-05	4.57E-06	3.24E-07	2.33E-07	2.39E-03	4.77E-04	3.03E-04	2.68E-06	8.01E-08	3.06E-04	2.85E-03
595694.00	4171763.00	1.38E-03	1.14E-03	2.28E-05	5.13E-06	3.40E-07	2.53E-07	2.55E-03	5.09E-04	3.39E-04	3.01E-06	8.62E-08	3.43E-04	3.19E-03
595694.00	4171783.00	1.46E-03	1.27E-03	2.61E-05	5.88E-06	3.62E-07	2.81E-07	2.76E-03	5.51E-04	3.93E-04	3.45E-06	9.49E-08	3.97E-04	3.70E-03
595694.00	4171803.00	1.55E-03	1.43E-03	3.05E-05	6.88E-06	3.88E-07	3.18E-07	3.02E-03	6.04E-04	4.66E-04	4.04E-06	1.06E-07	4.70E-04	4.38E-03
595694.00	4171823.00	1.66E-03	1.63E-03	3.62E-05	8.18E-06	4.19E-07	3.64E-07	3.34E-03	6.68E-04	5.62E-04	4.80E-06	1.20E-07	5.67E-04	5.29E-03

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595694.00	4171843.00	1.80E-03	1.89E-03	4.41E-05	9.96E-06	4.56E-07	4.26E-07	3.75E-03	7.50E-04	6.99E-04	5.85E-06	1.39E-07	7.04E-04	6.57E-03
595694.00	4171863.00	1.96E-03	2.25E-03	5.46E-05	1.24E-05	5.01E-07	5.12E-07	4.28E-03	8.56E-04	8.91E-04	7.25E-06	1.66E-07	8.99E-04	8.38E-03
595694.00	4171883.00	2.13E-03	2.65E-03	6.76E-05	1.53E-05	5.46E-07	6.04E-07	4.87E-03	9.74E-04	1.12E-03	8.99E-06	1.94E-07	1.13E-03	1.06E-02
595694.00	4171903.00	2.29E-03	3.12E-03	8.36E-05	1.90E-05	5.91E-07	7.07E-07	5.52E-03	1.10E-03	1.40E-03	1.11E-05	2.25E-07	1.41E-03	1.31E-02
595694.00	4171923.00	2.50E-03	3.77E-03	1.08E-04	2.45E-05	6.48E-07	8.55E-07	6.41E-03	1.28E-03	1.81E-03	1.44E-05	2.70E-07	1.82E-03	1.70E-02
595694.00	4171943.00	2.77E-03	4.68E-03	1.46E-04	3.31E-05	7.18E-07	1.06E-06	7.63E-03	1.53E-03	2.39E-03	1.94E-05	3.34E-07	2.41E-03	2.25E-02
595714.00	4171763.00	1.38E-03	1.17E-03	2.30E-05	5.18E-06	3.43E-07	2.55E-07	2.57E-03	5.15E-04	3.58E-04	3.04E-06	8.69E-08	3.61E-04	3.36E-03
595714.00	4171783.00	1.49E-03	1.34E-03	2.72E-05	6.14E-06	3.74E-07	2.96E-07	2.86E-03	5.72E-04	4.35E-04	3.60E-06	9.97E-08	4.39E-04	4.09E-03
595714.00	4171803.00	1.59E-03	1.57E-03	3.19E-05	7.20E-06	4.06E-07	3.41E-07	3.20E-03	6.40E-04	5.20E-04	4.23E-06	1.14E-07	5.24E-04	4.89E-03
595714.00	4171823.00	1.71E-03	1.81E-03	3.77E-05	8.53E-06	4.38E-07	3.93E-07	3.56E-03	7.12E-04	6.28E-04	5.01E-06	1.29E-07	6.33E-04	5.90E-03
595714.00	4171843.00	1.85E-03	2.06E-03	4.51E-05	1.02E-05	4.74E-07	4.55E-07	3.96E-03	7.93E-04	7.69E-04	6.00E-06	1.48E-07	7.75E-04	7.22E-03
595714.00	4171863.00	2.00E-03	2.39E-03	5.46E-05	1.24E-05	5.11E-07	5.26E-07	4.46E-03	8.91E-04	9.49E-04	7.27E-06	1.70E-07	9.57E-04	8.92E-03
595714.00	4171883.00	2.18E-03	2.86E-03	6.75E-05	1.53E-05	5.61E-07	6.31E-07	5.13E-03	1.03E-03	1.19E-03	8.99E-06	2.02E-07	1.20E-03	1.12E-02
595714.00	4171903.00	2.39E-03	3.58E-03	8.48E-05	1.93E-05	6.22E-07	7.68E-07	6.08E-03	1.22E-03	1.52E-03	1.13E-05	2.43E-07	1.53E-03	1.42E-02
595734.00	4171763.00	1.41E-03	1.24E-03	2.38E-05	5.37E-06	3.56E-07	2.69E-07	2.68E-03	5.36E-04	3.92E-04	3.15E-06	9.15E-08	3.96E-04	3.69E-03
595734.00	4171783.00	1.50E-03	1.40E-03	2.75E-05	6.21E-06	3.80E-07	3.02E-07	2.94E-03	5.88E-04	4.63E-04	3.65E-06	1.02E-07	4.67E-04	4.35E-03
595734.00	4171803.00	1.61E-03	1.59E-03	3.21E-05	7.25E-06	4.08E-07	3.43E-07	3.25E-03	6.50E-04	5.51E-04	4.26E-06	1.14E-07	5.55E-04	5.18E-03
595734.00	4171823.00	1.74E-03	1.84E-03	3.79E-05	8.57E-06	4.42E-07	3.96E-07	3.63E-03	7.27E-04	6.65E-04	5.03E-06	1.30E-07	6.70E-04	6.25E-03
595734.00	4171843.00	1.88E-03	2.15E-03	4.51E-05	1.02E-05	4.79E-07	4.61E-07	4.09E-03	8.18E-04	8.10E-04	6.01E-06	1.50E-07	8.16E-04	7.61E-03
595734.00	4171863.00	2.04E-03	2.54E-03	5.44E-05	1.24E-05	5.21E-07	5.41E-07	4.65E-03	9.30E-04	9.96E-04	7.25E-06	1.74E-07	1.00E-03	9.35E-03
595734.00	4171883.00	2.24E-03	3.05E-03	6.70E-05	1.52E-05	5.72E-07	6.49E-07	5.38E-03	1.08E-03	1.25E-03	8.94E-06	2.07E-07	1.26E-03	1.17E-02
595734.00	4171903.00	2.47E-03	3.70E-03	8.36E-05	1.90E-05	6.29E-07	7.81E-07	6.27E-03	1.25E-03	1.57E-03	1.12E-05	2.47E-07	1.58E-03	1.47E-02
595754.00	4171763.00	1.43E-03	1.28E-03	2.40E-05	5.42E-06	3.59E-07	2.71E-07	2.74E-03	5.48E-04	4.14E-04	3.18E-06	9.22E-08	4.18E-04	3.90E-03
595754.00	4171783.00	1.52E-03	1.46E-03	2.76E-05	6.25E-06	3.84E-07	3.06E-07	3.01E-03	6.02E-04	4.85E-04	3.67E-06	1.03E-07	4.89E-04	4.56E-03
595754.00	4171803.00	1.63E-03	1.66E-03	3.19E-05	7.23E-06	4.13E-07	3.47E-07	3.33E-03	6.66E-04	5.73E-04	4.24E-06	1.16E-07	5.77E-04	5.38E-03
595754.00	4171823.00	1.77E-03	1.95E-03	3.80E-05	8.61E-06	4.49E-07	4.06E-07	3.77E-03	7.54E-04	6.99E-04	5.05E-06	1.33E-07	7.04E-04	6.57E-03
595754.00	4171843.00	1.93E-03	2.30E-03	4.54E-05	1.03E-05	4.90E-07	4.77E-07	4.29E-03	8.58E-04	8.55E-04	6.05E-06	1.55E-07	8.61E-04	8.03E-03
595754.00	4171863.00	2.11E-03	2.73E-03	5.47E-05	1.24E-05	5.35E-07	5.63E-07	4.91E-03	9.82E-04	1.05E-03	7.29E-06	1.81E-07	1.06E-03	9.84E-03
595754.00	4171883.00	2.32E-03	3.27E-03	6.66E-05	1.51E-05	5.85E-07	6.70E-07	5.67E-03	1.13E-03	1.29E-03	8.89E-06	2.13E-07	1.30E-03	1.21E-02
595754.00	4171903.00	2.57E-03	4.02E-03	8.28E-05	1.89E-05	6.49E-07	8.14E-07	6.69E-03	1.34E-03	1.61E-03	1.11E-05	2.57E-07	1.62E-03	1.51E-02
595754.00	4171923.00	2.84E-03	5.01E-03	1.04E-04	2.37E-05	7.21E-07	9.88E-07	7.98E-03	1.60E-03	1.99E-03	1.39E-05	3.10E-07	2.00E-03	1.87E-02
595774.00	4171783.00	1.55E-03	1.54E-03	2.80E-05	6.34E-06	3.92E-07	3.16E-07	3.13E-03	6.26E-04	5.15E-04	3.72E-06	1.06E-07	5.19E-04	4.84E-03
595774.00	4171863.00	2.19E-03	2.94E-03	5.48E-05	1.25E-05	5.48E-07	5.84E-07	5.19E-03	1.04E-03	1.09E-03	7.32E-06	1.87E-07	1.10E-03	1.02E-02
595774.00	4171883.00	2.41E-03	3.52E-03	6.63E-05	1.51E-05	6.01E-07	6.93E-07	6.01E-03	1.20E-03	1.33E-03	8.87E-06	2.20E-07	1.34E-03	1.25E-02
595774.00	4171903.00	2.67E-03	4.32E-03	8.14E-05	1.86E-05	6.67E-07	8.37E-07	7.09E-03	1.42E-03	1.62E-03	1.09E-05	2.64E-07	1.64E-03	1.52E-02
595774.00	4171923.00	2.97E-03	5.28E-03	1.00E-04	2.29E-05	7.37E-07	1.00E-06	8.38E-03	1.68E-03	1.97E-03	1.35E-05	3.14E-07	1.99E-03	1.85E-02
595782.40	4171913.24	2.87E-03	4.90E-03	8.95E-05	2.04E-05	7.08E-07	9.25E-07	7.87E-03	1.57E-03	1.79E-03	1.20E-05	2.90E-07	1.80E-03	1.68E-02
595790.49	4171877.76	2.41E-03	3.52E-03	6.25E-05	1.42E-05	5.96E-07	6.75E-07	6.01E-03	1.20E-03	1.28E-03	8.36E-06	2.15E-07	1.28E-03	1.20E-02
595794.00	4171863.00	2.28E-03	3.15E-03	5.49E-05	1.25E-05	5.63E-07	6.05E-07	5.49E-03	1.10E-03	1.12E-03	7.34E-06	1.94E-07	1.13E-03	1.06E-02
595794.00	4171883.00	2.50E-03	3.73E-03	6.55E-05	1.49E-05	6.13E-07	7.09E-07	6.31E-03	1.26E-03	1.34E-03	8.77E-06	2.25E-07	1.35E-03	1.26E-02
595794.00	4171903.00	2.78E-03	4.58E-03	7.96E-05	1.82E-05	6.82E-07	8.53E-07	7.46E-03	1.49E-03	1.62E-03	1.07E-05	2.68E-07	1.63E-03	1.52E-02
595794.00	4171923.00	3.10E-03	5.54E-03	9.65E-05	2.20E-05	7.52E-07	1.01E-06	8.76E-03	1.75E-03	1.93E-03	1.29E-05	3.16E-07	1.95E-03	1.82E-02
595814.00	4171863.00	2.37E-03	3.34E-03	5.46E-05	1.25E-05	5.75E-07	6.20E-07	5.78E-03	1.16E-03	1.14E-03	7.31E-06	1.98E-07	1.15E-03	1.07E-02
595814.00	4171883.00	2.62E-03	3.99E-03	6.49E-05	1.48E-05	6.31E-07	7.30E-07	6.69E-03	1.34E-03	1.36E-03	8.70E-06	2.31E-07	1.37E-03	1.27E-02
595814.00	4171903.00	2.90E-03	4.79E-03	7.74E-05	1.77E-05	6.94E-07	8.62E-07	7.79E-03	1.56E-03	1.60E-03	1.04E-05	2.71E-07	1.61E-03	1.51E-02
595814.00	4171923.00	3.23E-03	5.77E-03	9.22E-05	2.11E-05	7.67E-07	1.02E-06	9.12E-03	1.82E-03	1.88E-03	1.24E-05	3.17E-07	1.90E-03	1.77E-02
595826.59	4171700.37	1.23E-03	1.04E-03	1.68E-05	3.79E-06	3.06E-07	2.04E-07	2.28E-03	4.57E-04	3.12E-04	2.22E-06	7.15E-08	3.14E-04	2.93E-03
595832.66	4171885.33	2.75E-03	4.24E-03	6.49E-05	1.48E-05	6.48E-07	7.51E-07	7.07E-03	1.41E-03	1.37E-03	8.70E-06	2.37E-07	1.38E-03	1.29E-02

Receptor		GLC Concentration (ug/m^3)						Phase 1 Total Concentration (ug/m^3)	Phase 1 Total CHI	Phase 2 Off-Road	Phase 2 Haul	Phase 2 Idling	Phase 2 Total Concentration (ug/m^3)	Phase 2 Total CHI
X	Y	Phase 1A Off-Road	Phase 1B Off-Road	Phase 1A-Haul	Phase 1B-Haul	Phase 1A-Idling	Phase 1B-Idling			GLC Concentration (ug/m^3)				
595832.66	4171905.33	3.06E-03	5.05E-03	7.63E-05	1.75E-05	7.12E-07	8.80E-07	8.21E-03	1.64E-03	1.60E-03	1.02E-05	2.76E-07	1.61E-03	1.50E-02
595832.66	4171925.33	3.40E-03	6.02E-03	8.95E-05	2.05E-05	7.83E-07	1.03E-06	9.53E-03	1.91E-03	1.85E-03	1.20E-05	3.20E-07	1.87E-03	1.74E-02
595852.66	4171825.33	2.12E-03	2.70E-03	4.01E-05	9.15E-06	5.07E-07	4.82E-07	4.87E-03	9.75E-04	8.59E-04	5.37E-06	1.57E-07	8.64E-04	8.06E-03
595852.66	4171845.33	2.33E-03	3.16E-03	4.66E-05	1.06E-05	5.52E-07	5.59E-07	5.55E-03	1.11E-03	1.00E-03	6.24E-06	1.80E-07	1.01E-03	9.41E-03
595852.66	4171865.33	2.57E-03	3.73E-03	5.43E-05	1.24E-05	6.03E-07	6.50E-07	6.37E-03	1.27E-03	1.17E-03	7.28E-06	2.07E-07	1.18E-03	1.10E-02
595852.66	4171885.33	2.86E-03	4.41E-03	6.32E-05	1.45E-05	6.61E-07	7.57E-07	7.35E-03	1.47E-03	1.36E-03	8.48E-06	2.39E-07	1.37E-03	1.27E-02
595852.66	4171905.33	3.19E-03	5.24E-03	7.34E-05	1.68E-05	7.28E-07	8.81E-07	8.52E-03	1.70E-03	1.57E-03	9.85E-06	2.76E-07	1.58E-03	1.47E-02
595852.66	4171925.33	3.55E-03	6.18E-03	8.47E-05	1.94E-05	7.98E-07	1.02E-06	9.83E-03	1.97E-03	1.79E-03	1.14E-05	3.17E-07	1.80E-03	1.68E-02
595852.66	4171945.33	3.97E-03	7.32E-03	9.67E-05	2.21E-05	8.83E-07	1.17E-06	1.14E-02	2.28E-03	2.02E-03	1.30E-05	3.62E-07	2.03E-03	1.89E-02
595857.85	4171568.40	8.51E-04	5.64E-04	8.84E-06	1.99E-06	2.12E-07	1.13E-07	1.43E-03	2.85E-04	1.53E-04	1.17E-06	4.23E-08	1.54E-04	1.44E-03
595872.66	4171865.33	2.68E-03	3.88E-03	5.33E-05	1.22E-05	6.14E-07	6.56E-07	6.62E-03	1.32E-03	1.16E-03	7.15E-06	2.09E-07	1.17E-03	1.09E-02
595872.66	4171885.33	2.97E-03	4.56E-03	6.14E-05	1.40E-05	6.73E-07	7.59E-07	7.61E-03	1.52E-03	1.34E-03	8.24E-06	2.40E-07	1.34E-03	1.25E-02
595872.66	4171905.33	3.32E-03	5.38E-03	7.03E-05	1.61E-05	7.41E-07	8.76E-07	8.78E-03	1.76E-03	1.52E-03	9.44E-06	2.74E-07	1.53E-03	1.43E-02
595872.66	4171925.33	3.69E-03	6.28E-03	8.00E-05	1.83E-05	8.11E-07	1.00E-06	1.01E-02	2.01E-03	1.71E-03	1.07E-05	3.12E-07	1.73E-03	1.61E-02
595872.66	4171945.33	4.12E-03	7.34E-03	9.00E-05	2.06E-05	8.92E-07	1.14E-06	1.16E-02	2.32E-03	1.91E-03	1.21E-05	3.52E-07	1.93E-03	1.80E-02
595892.66	4171865.33	2.78E-03	4.01E-03	5.21E-05	1.19E-05	6.25E-07	6.59E-07	6.85E-03	1.37E-03	1.15E-03	7.00E-06	2.10E-07	1.16E-03	1.08E-02
595892.66	4171885.33	3.09E-03	4.68E-03	5.94E-05	1.36E-05	6.84E-07	7.57E-07	7.85E-03	1.57E-03	1.31E-03	7.97E-06	2.39E-07	1.32E-03	1.23E-02
595892.66	4171905.33	3.44E-03	5.46E-03	6.72E-05	1.54E-05	7.51E-07	8.65E-07	8.99E-03	1.80E-03	1.47E-03	9.02E-06	2.71E-07	1.48E-03	1.38E-02
595892.66	4171925.33	3.83E-03	6.34E-03	7.54E-05	1.73E-05	8.23E-07	9.82E-07	1.03E-02	2.05E-03	1.64E-03	1.01E-05	3.05E-07	1.66E-03	1.54E-02
595892.66	4171945.33	4.26E-03	7.32E-03	8.39E-05	1.92E-05	9.02E-07	1.11E-06	1.17E-02	2.34E-03	1.82E-03	1.13E-05	3.42E-07	1.83E-03	1.71E-02
595912.66	4171905.33	3.55E-03	5.50E-03	6.41E-05	1.47E-05	7.59E-07	8.50E-07	9.13E-03	1.83E-03	1.42E-03	8.62E-06	2.67E-07	1.43E-03	1.34E-02
595912.66	4171925.33	3.97E-03	6.36E-03	7.11E-05	1.63E-05	8.33E-07	9.57E-07	1.04E-02	2.08E-03	1.58E-03	9.55E-06	2.98E-07	1.59E-03	1.48E-02
595912.66	4171945.33	4.39E-03	7.27E-03	7.83E-05	1.79E-05	9.11E-07	1.07E-06	1.18E-02	2.35E-03	1.73E-03	1.05E-05	3.31E-07	1.74E-03	1.62E-02
595932.66	4171945.33	4.52E-03	7.18E-03	7.31E-05	1.67E-05	9.19E-07	1.03E-06	1.18E-02	2.36E-03	1.64E-03	9.82E-06	3.19E-07	1.65E-03	1.54E-02
596059.85	4172738.92	1.37E-02	2.40E-03	2.06E-05	4.73E-06	1.37E-06	2.40E-07	1.61E-02	3.23E-03	8.17E-04	2.78E-06	2.04E-07	8.20E-04	7.64E-03

Cumulative Source Impacts

Cumulative Source Impacts

Cancer Risk

		Distance from Source (ft)					Construction + Operations Cancer Risk					
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**17583**	**1371**	**HWY 680**	**HWY 580**	**15892**	**17583**	**1371**	**Total**
Offsite Residential	595852.66, 4171945.33	1450 E of Link 207	5000 S of Link 212	2563	1171	993	34.92	-	-	3.50	8.42	46.84
Offsite Worker	595254, 4172823	500 E of Link 207	1300 S of Link 212	1071	-	3740	56.80	22.13	2.91	-	-	81.85
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	-	42.87	20.51	-	-	-	63.37
Onsite Daycare	595203.12, 4172931.43	400 E of Link 207	900 S of Link 502	1410	-	4100	66.01	12.42	-	-	-	78.43
Onsite Worker	595432.7, 4172731.56	984 E of Link 207	1886 S of Link 502	656	-	2000	42.87	-	2.91		0.00	45.78

Cancer Risk

		Distance from Source (ft)				Full Buildout Cancer Risk				
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**1371**	**HWY 680**	**HWY 580**	**15892**	**1371**	**Total**
Offsite Residential	595162.43, 4172341.44	200 W of Link 207	2700 S of Link 504	1625	2650	60.90	-	-	-	60.90
Offsite Worker	595254, 4172823	500 E of Link 207	1300 S of Link 212	1071	3740	56.80	22.13	2.91	-	81.85
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	42.87	20.51	-	-	63.37
Onsite Worker	595432.70,4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	42.87	-	2.91	0.00	45.78

Chronic Risk- Phase 1 Construction

		Distance from Source (ft)				Phase 1 Construction Chronic Risk				
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**1371**	**HWY 680**	**HWY 580**	**15892**	**1371**	**Total**
Offsite Residential	595162.43, 4172341.44	200 W of Link 207	2700 S of Link 504	1625	2650	0.0380	-	-	-	0.04
Offsite Worker	595534, 4172643	885 E of Link 207	1890 S of Link of 212	97	2870	0.0220	-	0.0048	-	0.03
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.027	0.0070	-	-	0.03
Onsite Daycare	595203.12, 4172931.43	400 E of Link 207	900 S of Link 502	1410	4100	0.0410	0.0070	-	-	0.05
Onsite Worker	595432.7, 4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	0.0270	-	-	-	0.03

Chronic Risk- Construction+Operations

		Distance from Source (ft)				Phase 1 Operation + Phase 2 Construction Chronic Risk				
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**1371**	**HWY 680**	**HWY 580**	**15892**	**1371**	**Total**
Offsite Residential	595266.24, 4171970.65	300 W of Link 207	2600 S of Link 504	1997	3000	0.0290	-	-	-	0.03
Offsite Worker	595294, 4172743	525 E of Link 207	1740S of Link of 212	360	3600	0.036	-	4.75E-03	-	0.04
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.027	0.007	-	-	0.03
Onsite Daycare	595203.12, 4172931.43	400 E of Link 207	900 S of Link 502	1410	4100	0.0410	0.0070	-	-	0.05
Onsite Worker	595432.7, 4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	0.0270	-	-	-	0.03

Chronic Risk-Full Operation

		Distance from Source (ft)				Full Operation Chronic Risk				
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**1371**	**HWY 680**	**HWY 580**	**15892**	**1371**	**Total**
Offsite Residential	595162.43, 4172341.44	200 W of Link 207	2700 S of Link 504	1625	2650	0.0380	-	-	-	0.03
Offsite Worker	595374, 4172763	525 E of Link 207	1740S of Link of 212	360	3600	0.0360	-	0.0048	-	0.04
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.027	0.007	-	-	0.03
Onsite Worker	595432.70,4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	0.027	-	-	-	0.027

Annual PM2.5-Phase 1 Construction

		Distance from Source (ft)				Phase 1 Construction Annual Average PM2.5 Concentrations (ug/m^3)				
Receptor	**Location (UTM X, UTM Y)**	**HWY 680**	**HWY 580**	**15892**	**1371**	**HWY 680**	**HWY 580**	**15892**	**1371**	**Total**
Offsite Residential	595162.43,4172341.44	200 W of Link 207	2700 S of Link 504	1625	2650	0.2590	-	-	-	0.26
Offsite Worker	595534,4172643	1200 E of Link 207	1890 S of Link of 212	1000	2870	0.1490	-	0.0005	-	0.15
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.184	0.196	-	-	0.38
Onsite Daycare	595203.12, 4172931.43	400 E of Link 207	900 S of Link 502	1410	4100	0.2850	0.0570	-	-	0.34
Onsite Worker	595432.7,4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	0.1490	-	0.0005	-	0.15

Annual PM2.5-Phase 1 Operation + Phase 2 Construction						Phase 1 Operation + Phase 2 Construction				
		Distance from Source (ft)				Annual Average PM2.5 Concentrations (ug/m^3)				
Receptor	Location (UTM X, UTM Y)	HWY 680	HWY 580	15892	1371	HWY 680	HWY 580	15892	1371	Total
Offsite Residential	595852.66, 4171945.33	1450 E of Link 207	5000 S of Link 212	2563	993	0.1490	-	-	0.3264	0.48
Offsite Worker	595274,4172783	531 E of Link 207	1300 S of Link 212	485	3900	0.244	0.038	1.68E-03	-	0.28
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.184	0.196	-	-	0.38
Onsite Daycare	595203.12, 4172931.43	400 E of Link 207	900 S of Link 502	1410	4100	0.2850	0.0570	0.0005	-	0.34
Onsite Worker	595432.7,4172731.56	984 E of Link 207	1886 S of Link 502	656	2000	0.1490	-	0.00	-	0.15

Annual PM2.5-Full Operation						Full Operations				
		Distance from Source (ft)				Annual Average PM2.5 Concentrations (ug/m^3)				
Receptor	Location (UTM X, UTM Y)	HWY 680	HWY 580	15892	1371	HWY 680	HWY 580	15892	1371	Total
Offsite Residential	595162.43, 4172341.44	200 W of Link 207	2700 S of Link 504	1625	2650	0.2590	-	-	-	0.26
Offsite Worker	595254, 4172823	500 E of Link 207	1300 S of Link 212	1071	3740	0.2440	0.1050	0.0005	-	0.35
CSP-GYM	595305.29, 4173022.49	829 E of Link 207	669 S of Link 212	1402	-	0.184	0.196	-	-	0.38
Onsite Worker	595432.7,4172731.56	984 E of Link 207	1886 S of Link 502	656	2000.00	0.149	-	0.00	-	0.15

Note: (-) denotes that the source was much greater than 1000 feet from the project boudary or sensitive receptor, therefore impacts from the source were excluded.

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Annual $PM_{2.5}$ Exhaust Concentrations

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5955744171743	Offsite Worker	595574.00	4171743.00	0.00243	0.00170	0.00029	0.00082	0.00199
5955944171743	Offsite Worker	595594.00	4171743.00	0.00237	0.00167	0.00028	0.00081	0.00195
5956144171743	Offsite Worker	595614.00	4171743.00	0.00233	0.00166	0.00028	0.00082	0.00194
5956344171743	Offsite Worker	595634.00	4171743.00	0.00226	0.00164	0.00028	0.00083	0.00192
5956544171743	Offsite Worker	595654.00	4171743.00	0.00226	0.00164	0.00029	0.00084	0.00193
5956744171743	Offsite Worker	595674.00	4171743.00	0.00224	0.00164	0.00029	0.00086	0.00193
5956944171743	Offsite Worker	595694.00	4171743.00	0.00223	0.00165	0.00031	0.00088	0.00196
5955344171763	Offsite Worker	595534.00	4171763.00	0.00272	0.00194	0.00034	0.00088	0.00228
5955544171763	Offsite Worker	595554.00	4171763.00	0.00263	0.00187	0.00032	0.00088	0.00219
5955744171763	Offsite Worker	595574.00	4171763.00	0.00259	0.00189	0.00032	0.00088	0.00221
5955944171763	Offsite Worker	595594.00	4171763.00	0.00253	0.00186	0.00031	0.00088	0.00217
5956144171763	Offsite Worker	595614.00	4171763.00	0.00248	0.00186	0.00031	0.00090	0.00217
5956344171763	Offsite Worker	595634.00	4171763.00	0.00244	0.00185	0.00032	0.00091	0.00217
5956544171763	Offsite Worker	595654.00	4171763.00	0.00242	0.00183	0.00033	0.00092	0.00216
5956744171763	Offsite Worker	595674.00	4171763.00	0.00242	0.00183	0.00034	0.00094	0.00217
5956944171763	Offsite Worker	595694.00	4171763.00	0.00238	0.00181	0.00034	0.00096	0.00215
5957144171763	Offsite Worker	595714.00	4171763.00	0.00240	0.00183	0.00036	0.00100	0.00219
5957344171763	Offsite Worker	595734.00	4171763.00	0.00250	0.00193	0.00040	0.00104	0.00233
5957544171763	Offsite Worker	595754.00	4171763.00	0.00256	0.00197	0.00042	0.00108	0.00239
5955344171783	Offsite Worker	595534.00	4171783.00	0.00290	0.00215	0.00037	0.00096	0.00252
5955544171783	Offsite Worker	595554.00	4171783.00	0.00282	0.00212	0.00036	0.00096	0.00248
5955744171783	Offsite Worker	595574.00	4171783.00	0.00275	0.00209	0.00035	0.00096	0.00244
5955944171783	Offsite Worker	595594.00	4171783.00	0.00268	0.00205	0.00035	0.00096	0.00240
5956144171783	Offsite Worker	595614.00	4171783.00	0.00262	0.00203	0.00035	0.00097	0.00238
5956344171783	Offsite Worker	595634.00	4171783.00	0.00262	0.00208	0.00036	0.00099	0.00244
5956544171783	Offsite Worker	595654.00	4171783.00	0.00262	0.00207	0.00038	0.00101	0.00245
5956744171783	Offsite Worker	595674.00	4171783.00	0.00263	0.00207	0.00039	0.00104	0.00246
5956944171783	Offsite Worker	595694.00	4171783.00	0.00257	0.00203	0.00040	0.00106	0.00243
5957144171783	Offsite Worker	595714.00	4171783.00	0.00267	0.00214	0.00044	0.00111	0.00258
5957344171783	Offsite Worker	595734.00	4171783.00	0.00274	0.00220	0.00047	0.00116	0.00267
5957544171783	Offsite Worker	595754.00	4171783.00	0.00281	0.00224	0.00049	0.00120	0.00273
5957744171783	Offsite Worker	595774.00	4171783.00	0.00293	0.00233	0.00052	0.00125	0.00285
5955344171803	Offsite Worker	595534.00	4171803.00	0.00311	0.00244	0.00042	0.00105	0.00286
5955544171803	Offsite Worker	595554.00	4171803.00	0.00302	0.00239	0.00040	0.00105	0.00279
5955744171803	Offsite Worker	595574.00	4171803.00	0.00299	0.00242	0.00041	0.00106	0.00283
5955944171803	Offsite Worker	595594.00	4171803.00	0.00293	0.00239	0.00041	0.00106	0.00280
5956144171803	Offsite Worker	595614.00	4171803.00	0.00288	0.00237	0.00041	0.00108	0.00278
5956344171803	Offsite Worker	595634.00	4171803.00	0.00284	0.00236	0.00042	0.00110	0.00278
5956544171803	Offsite Worker	595654.00	4171803.00	0.00279	0.00230	0.00043	0.00111	0.00273
5956744171803	Offsite Worker	595674.00	4171803.00	0.00279	0.00230	0.00045	0.00114	0.00275
5956944171803	Offsite Worker	595694.00	4171803.00	0.00282	0.00232	0.00047	0.00118	0.00279
5957144171803	Offsite Worker	595714.00	4171803.00	0.00299	0.00247	0.00052	0.00124	0.00299
5957344171803	Offsite Worker	595734.00	4171803.00	0.00303	0.00253	0.00056	0.00129	0.00309
5957544171803	Offsite Worker	595754.00	4171803.00	0.00311	0.00258	0.00058	0.00134	0.00316
5955144171823	Offsite Worker	595514.00	4171823.00	0.00349	0.00292	0.00050	0.00118	0.00342
5955344171823	Offsite Worker	595534.00	4171823.00	0.00336	0.00280	0.00047	0.00116	0.00327
5955544171823	Offsite Worker	595554.00	4171823.00	0.00327	0.00276	0.00046	0.00116	0.00322
5955744171823	Offsite Worker	595574.00	4171823.00	0.00323	0.00275	0.00046	0.00116	0.00321
5955944171823	Offsite Worker	595594.00	4171823.00	0.00317	0.00271	0.00047	0.00117	0.00318
5956144171823	Offsite Worker	595614.00	4171823.00	0.00313	0.00271	0.00048	0.00119	0.00319
5956344171823	Offsite Worker	595634.00	4171823.00	0.00311	0.00270	0.00050	0.00121	0.00320
5956544171823	Offsite Worker	595654.00	4171823.00	0.00312	0.00270	0.00052	0.00125	0.00322
5956744171823	Offsite Worker	595674.00	4171823.00	0.00312	0.00274	0.00055	0.00129	0.00329
5956944171823	Offsite Worker	595694.00	4171823.00	0.00312	0.00270	0.00057	0.00133	0.00327
5957144171823	Offsite Worker	595714.00	4171823.00	0.00333	0.00289	0.00063	0.00140	0.00352
5957344171823	Offsite Worker	595734.00	4171823.00	0.00339	0.00297	0.00067	0.00146	0.00364
5957544171823	Offsite Worker	595754.00	4171823.00	0.00352	0.00307	0.00070	0.00152	0.00377
5955144171843	Offsite Worker	595514.00	4171843.00	0.00377	0.00338	0.00057	0.00131	0.00395
5955344171843	Offsite Worker	595534.00	4171843.00	0.00364	0.00326	0.00054	0.00130	0.00380
5955544171843	Offsite Worker	595554.00	4171843.00	0.00354	0.00318	0.00053	0.00129	0.00371
5955744171843	Offsite Worker	595574.00	4171843.00	0.00352	0.00323	0.00055	0.00131	0.00378
5955944171843	Offsite Worker	595594.00	4171843.00	0.00345	0.00315	0.00055	0.00130	0.00370
5956144171843	Offsite Worker	595614.00	4171843.00	0.00342	0.00314	0.00057	0.00133	0.00371
5956344171843	Offsite Worker	595634.00	4171843.00	0.00341	0.00313	0.00060	0.00136	0.00373
5956544171843	Offsite Worker	595654.00	4171843.00	0.00344	0.00316	0.00063	0.00141	0.00379
5956744171843	Offsite Worker	595674.00	4171843.00	0.00340	0.00311	0.00065	0.00145	0.00376
5956944171843	Offsite Worker	595694.00	4171843.00	0.00350	0.00322	0.00070	0.00152	0.00392
5957144171843	Offsite Worker	595714.00	4171843.00	0.00370	0.00344	0.00077	0.00160	0.00421
5957344171843	Offsite Worker	595734.00	4171843.00	0.00382	0.00353	0.00082	0.00166	0.00435

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5957544171843	Offsite Worker	595754.00	4171843.00	0.00401	0.00368	0.00086	0.00173	0.00454
5955144171863	Offsite Worker	595514.00	4171863.00	0.00410	0.00397	0.00066	0.00147	0.00463
5955344171863	Offsite Worker	595534.00	4171863.00	0.00397	0.00384	0.00064	0.00146	0.00448
5955544171863	Offsite Worker	595554.00	4171863.00	0.00385	0.00375	0.00062	0.00146	0.00437
5955744171863	Offsite Worker	595574.00	4171863.00	0.00376	0.00366	0.00062	0.00145	0.00428
5955944171863	Offsite Worker	595594.00	4171863.00	0.00369	0.00359	0.00063	0.00146	0.00422
5956144171863	Offsite Worker	595614.00	4171863.00	0.00364	0.00353	0.00066	0.00148	0.00419
5956344171863	Offsite Worker	595634.00	4171863.00	0.00368	0.00360	0.00071	0.00154	0.00431
5956544171863	Offsite Worker	595654.00	4171863.00	0.00383	0.00375	0.00078	0.00161	0.00453
5956744171863	Offsite Worker	595674.00	4171863.00	0.00377	0.00367	0.00080	0.00166	0.00447
5956944171863	Offsite Worker	595694.00	4171863.00	0.00400	0.00398	0.00090	0.00176	0.00488
5957144171863	Offsite Worker	595714.00	4171863.00	0.00416	0.00412	0.00096	0.00184	0.00508
5957344171863	Offsite Worker	595734.00	4171863.00	0.00434	0.00427	0.00100	0.00191	0.00527
5957544171863	Offsite Worker	595754.00	4171863.00	0.00459	0.00445	0.00106	0.00199	0.00551
5957744171863	Offsite Worker	595774.00	4171863.00	0.00485	0.00461	0.00110	0.00207	0.00571
5957944171863	Offsite Worker	595794.00	4171863.00	0.00513	0.00474	0.00113	0.00213	0.00587
5958144171863	Offsite Worker	595814.00	4171863.00	0.00540	0.00481	0.00115	0.00219	0.00596
5955144171883	Offsite Worker	595514.00	4171883.00	0.00451	0.00482	0.00080	0.00168	0.00562
5955344171883	Offsite Worker	595534.00	4171883.00	0.00437	0.00466	0.00077	0.00167	0.00543
5955544171883	Offsite Worker	595554.00	4171883.00	0.00423	0.00451	0.00075	0.00166	0.00526
5955744171883	Offsite Worker	595574.00	4171883.00	0.00412	0.00437	0.00075	0.00166	0.00512
5955944171883	Offsite Worker	595594.00	4171883.00	0.00406	0.00428	0.00077	0.00167	0.00505
5956144171883	Offsite Worker	595614.00	4171883.00	0.00402	0.00421	0.00081	0.00170	0.00502
5956344171883	Offsite Worker	595634.00	4171883.00	0.00404	0.00421	0.00086	0.00175	0.00507
5956544171883	Offsite Worker	595654.00	4171883.00	0.00417	0.00437	0.00095	0.00184	0.00532
5956744171883	Offsite Worker	595674.00	4171883.00	0.00426	0.00446	0.00101	0.00192	0.00547
5956944171883	Offsite Worker	595694.00	4171883.00	0.00455	0.00487	0.00113	0.00204	0.00600
5957144171883	Offsite Worker	595714.00	4171883.00	0.00479	0.00513	0.00120	0.00214	0.00633
5957344171883	Offsite Worker	595734.00	4171883.00	0.00503	0.00529	0.00126	0.00222	0.00655
5957544171883	Offsite Worker	595754.00	4171883.00	0.00530	0.00545	0.00130	0.00231	0.00675
5957744171883	Offsite Worker	595774.00	4171883.00	0.00561	0.00560	0.00134	0.00238	0.00694
5957944171883	Offsite Worker	595794.00	4171883.00	0.00590	0.00567	0.00135	0.00244	0.00702
5958144171883	Offsite Worker	595814.00	4171883.00	0.00625	0.00573	0.00137	0.00250	0.00710
5955144171903	Offsite Worker	595514.00	4171903.00	0.00497	0.00591	0.00097	0.00193	0.00688
5955344171903	Offsite Worker	595534.00	4171903.00	0.00480	0.00564	0.00094	0.00192	0.00658
5955544171903	Offsite Worker	595554.00	4171903.00	0.00467	0.00549	0.00093	0.00192	0.00642
5955744171903	Offsite Worker	595574.00	4171903.00	0.00459	0.00539	0.00095	0.00193	0.00634
5955944171903	Offsite Worker	595594.00	4171903.00	0.00453	0.00526	0.00099	0.00195	0.00625
5956144171903	Offsite Worker	595614.00	4171903.00	0.00452	0.00519	0.00104	0.00199	0.00623
5956344171903	Offsite Worker	595634.00	4171903.00	0.00455	0.00515	0.00110	0.00205	0.00625
5956544171903	Offsite Worker	595654.00	4171903.00	0.00469	0.00535	0.00121	0.00216	0.00656
5956744171903	Offsite Worker	595674.00	4171903.00	0.00488	0.00561	0.00130	0.00227	0.00691
5956944171903	Offsite Worker	595694.00	4171903.00	0.00516	0.00597	0.00141	0.00239	0.00738
5957144171903	Offsite Worker	595714.00	4171903.00	0.00568	0.00644	0.00153	0.00251	0.00797
5957344171903	Offsite Worker	595734.00	4171903.00	0.00586	0.00661	0.00158	0.00261	0.00819
5957544171903	Offsite Worker	595754.00	4171903.00	0.00625	0.00681	0.00162	0.00270	0.00843
5957744171903	Offsite Worker	595774.00	4171903.00	0.00662	0.00688	0.00163	0.00278	0.00851
5957944171903	Offsite Worker	595794.00	4171903.00	0.00697	0.00688	0.00163	0.00283	0.00851
5958144171903	Offsite Worker	595814.00	4171903.00	0.00728	0.00682	0.00161	0.00286	0.00843
5955344171923	Offsite Worker	595534.00	4171923.00	0.00536	0.00711	0.00119	0.00225	0.00830
5955544171923	Offsite Worker	595554.00	4171923.00	0.00522	0.00687	0.00119	0.00225	0.00806
5955744171923	Offsite Worker	595574.00	4171923.00	0.00512	0.00671	0.00122	0.00227	0.00793
5955944171923	Offsite Worker	595594.00	4171923.00	0.00509	0.00658	0.00128	0.00231	0.00786
5956144171923	Offsite Worker	595614.00	4171923.00	0.00512	0.00654	0.00137	0.00238	0.00791
5956344171923	Offsite Worker	595634.00	4171923.00	0.00523	0.00662	0.00148	0.00248	0.00810
5956544171923	Offsite Worker	595654.00	4171923.00	0.00540	0.00686	0.00159	0.00260	0.00845
5956744171923	Offsite Worker	595674.00	4171923.00	0.00567	0.00728	0.00172	0.00274	0.00900
5956944171923	Offsite Worker	595694.00	4171923.00	0.00599	0.00768	0.00182	0.00286	0.00950
5957544171923	Offsite Worker	595754.00	4171923.00	0.00746	0.00847	0.00200	0.00319	0.01047
5957744171923	Offsite Worker	595774.00	4171923.00	0.00783	0.00844	0.00198	0.00325	0.01042
5957944171923	Offsite Worker	595794.00	4171923.00	0.00818	0.00831	0.00195	0.00328	0.01026
5958144171923	Offsite Worker	595814.00	4171923.00	0.00852	0.00811	0.00189	0.00328	0.01000
5955344171943	Offsite Worker	595534.00	4171943.00	0.00605	0.00930	0.00160	0.00269	0.01090
5955544171943	Offsite Worker	595554.00	4171943.00	0.00589	0.00888	0.00159	0.00270	0.01047
5955744171943	Offsite Worker	595574.00	4171943.00	0.00581	0.00866	0.00164	0.00274	0.01030
5955944171943	Offsite Worker	595594.00	4171943.00	0.00580	0.00850	0.00173	0.00281	0.01023
5956144171943	Offsite Worker	595614.00	4171943.00	0.00588	0.00850	0.00186	0.00293	0.01036
5956344171943	Offsite Worker	595634.00	4171943.00	0.00605	0.00875	0.00200	0.00308	0.01075
5956544171943	Offsite Worker	595654.00	4171943.00	0.00632	0.00921	0.00215	0.00323	0.01136

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5956744171943	Offsite Worker	595674.00	4171943.00	0.00669	0.00980	0.00230	0.00337	0.01210
5956944171943	Offsite Worker	595694.00	4171943.00	0.00713	0.01026	0.00241	0.00349	0.01267
5955544171963	Offsite Worker	595554.00	4171963.00	0.00677	0.01197	0.00227	0.00330	0.01424
5955744171963	Offsite Worker	595574.00	4171963.00	0.00670	0.01162	0.00233	0.00338	0.01395
5955944171963	Offsite Worker	595594.00	4171963.00	0.00675	0.01149	0.00246	0.00354	0.01395
5956144171963	Offsite Worker	595614.00	4171963.00	0.00690	0.01169	0.00263	0.00377	0.01432
5956344171963	Offsite Worker	595634.00	4171963.00	0.00718	0.01236	0.00282	0.00400	0.01518
5956544171963	Offsite Worker	595654.00	4171963.00	0.00755	0.01307	0.00299	0.00416	0.01606
5956744171963	Offsite Worker	595674.00	4171963.00	0.00803	0.01368	0.00314	0.00426	0.01682
5955744171983	Offsite Worker	595574.00	4171983.00	0.00791	0.01643	0.00354	0.00428	0.01997
5950744172423	Offsite Worker	595074.00	4172423.00	0.04517	0.00288	0.00079	0.00350	0.00367
5950944172423	Offsite Worker	595094.00	4172423.00	0.04941	0.00313	0.00079	0.00377	0.00392
5950744172443	Offsite Worker	595074.00	4172443.00	0.04493	0.00283	0.00082	0.00348	0.00365
5950944172443	Offsite Worker	595094.00	4172443.00	0.04947	0.00307	0.00082	0.00374	0.00389
5951144172443	Offsite Worker	595114.00	4172443.00	0.05455	0.00335	0.00081	0.00404	0.00416
5951344172443	Offsite Worker	595134.00	4172443.00	0.06035	0.00367	0.00081	0.00440	0.00448
5950544172463	Offsite Worker	595054.00	4172463.00	0.04001	0.00256	0.00090	0.00323	0.00346
5950744172463	Offsite Worker	595074.00	4172463.00	0.04420	0.00277	0.00089	0.00346	0.00366
5950944172463	Offsite Worker	595094.00	4172463.00	0.04896	0.00301	0.00089	0.00372	0.00390
5951144172463	Offsite Worker	595114.00	4172463.00	0.05437	0.00328	0.00088	0.00402	0.00416
5950544172483	Offsite Worker	595054.00	4172483.00	0.03817	0.00244	0.00098	0.00315	0.00342
5950744172483	Offsite Worker	595074.00	4172483.00	0.04286	0.00269	0.00100	0.00345	0.00369
5950944172483	Offsite Worker	595094.00	4172483.00	0.04784	0.00292	0.00100	0.00371	0.00392
5951144172483	Offsite Worker	595114.00	4172483.00	0.05354	0.00319	0.00098	0.00400	0.00417
5950344172503	Offsite Worker	595034.00	4172503.00	0.03282	0.00223	0.00112	0.00303	0.00335
5950544172503	Offsite Worker	595054.00	4172503.00	0.03646	0.00240	0.00113	0.00322	0.00353
5950744172503	Offsite Worker	595074.00	4172503.00	0.04084	0.00260	0.00114	0.00344	0.00374
5950944172503	Offsite Worker	595094.00	4172503.00	0.04595	0.00283	0.00115	0.00370	0.00398
5951144172503	Offsite Worker	595114.00	4172503.00	0.05198	0.00310	0.00114	0.00399	0.00424
5950344172523	Offsite Worker	595034.00	4172523.00	0.03047	0.00215	0.00125	0.00304	0.00340
5950544172523	Offsite Worker	595054.00	4172523.00	0.03412	0.00232	0.00129	0.00324	0.00361
5950744172523	Offsite Worker	595074.00	4172523.00	0.03841	0.00252	0.00132	0.00347	0.00384
5950944172523	Offsite Worker	595094.00	4172523.00	0.04334	0.00273	0.00134	0.00371	0.00407
5950344172543	Offsite Worker	595034.00	4172543.00	0.02779	0.00207	0.00140	0.00306	0.00347
5950544172543	Offsite Worker	595054.00	4172543.00	0.03123	0.00224	0.00146	0.00327	0.00370
5950744172543	Offsite Worker	595074.00	4172543.00	0.03526	0.00243	0.00152	0.00350	0.00395
5950944172543	Offsite Worker	595094.00	4172543.00	0.04014	0.00264	0.00158	0.00377	0.00422
5950144172563	Offsite Worker	595014.00	4172563.00	0.02233	0.00186	0.00145	0.00290	0.00331
5950344172563	Offsite Worker	595034.00	4172563.00	0.02493	0.00201	0.00154	0.00310	0.00355
5950544172563	Offsite Worker	595054.00	4172563.00	0.02801	0.00217	0.00163	0.00332	0.00380
5950744172563	Offsite Worker	595074.00	4172563.00	0.03167	0.00235	0.00173	0.00357	0.00408
5950944172563	Offsite Worker	595094.00	4172563.00	0.03617	0.00257	0.00183	0.00386	0.00440
5950144172583	Offsite Worker	595014.00	4172583.00	0.01971	0.00181	0.00156	0.00293	0.00337
5950344172583	Offsite Worker	595034.00	4172583.00	0.02196	0.00195	0.00167	0.00315	0.00362
5950544172583	Offsite Worker	595054.00	4172583.00	0.02467	0.00211	0.00179	0.00340	0.00390
5950744172583	Offsite Worker	595074.00	4172583.00	0.02787	0.00229	0.00193	0.00367	0.00422
5950344172603	Offsite Worker	595034.00	4172603.00	0.01912	0.00191	0.00178	0.00322	0.00369
5950544172603	Offsite Worker	595054.00	4172603.00	0.02138	0.00207	0.00193	0.00349	0.00400
5950744172603	Offsite Worker	595074.00	4172603.00	0.02412	0.00226	0.00211	0.00380	0.00437
5955344172643	Offsite Worker	595534.00	4172643.00	0.21517	0.00697	0.00325	0.00860	0.01022
5955544172643	Offsite Worker	595554.00	4172643.00	0.17874	0.00671	0.00306	0.00817	0.00977
5955744172643	Offsite Worker	595574.00	4172643.00	0.15076	0.00641	0.00290	0.00772	0.00931
5955344172663	Offsite Worker	595534.00	4172663.00	0.18759	0.00612	0.00324	0.00770	0.00936
5955544172663	Offsite Worker	595554.00	4172663.00	0.15747	0.00590	0.00302	0.00733	0.00892
5955744172663	Offsite Worker	595574.00	4172663.00	0.13421	0.00566	0.00284	0.00695	0.00850
5955344172683	Offsite Worker	595534.00	4172683.00	0.16195	0.00546	0.00320	0.00700	0.00866
5955544172683	Offsite Worker	595554.00	4172683.00	0.13748	0.00526	0.00297	0.00665	0.00823
5955744172683	Offsite Worker	595574.00	4172683.00	0.11853	0.00507	0.00278	0.00632	0.00785
5952944172743	Offsite Worker	595294.00	4172743.00	0.03072	0.00639	0.02180	0.01829	0.02819
5953144172743	Offsite Worker	595314.00	4172743.00	0.03981	0.00595	0.01682	0.01600	0.02277
5953344172743	Offsite Worker	595334.00	4172743.00	0.05857	0.00628	0.01342	0.01401	0.01970
5955344172743	Offsite Worker	595534.00	4172743.00	0.09727	0.00397	0.00297	0.00540	0.00694
5952944172763	Offsite Worker	595294.00	4172763.00	0.02312	0.00570	0.01959	0.01513	0.02529
5953144172763	Offsite Worker	595314.00	4172763.00	0.02919	0.00516	0.01481	0.01384	0.01997
5953344172763	Offsite Worker	595334.00	4172763.00	0.04013	0.00506	0.01179	0.01232	0.01685
5953544172763	Offsite Worker	595354.00	4172763.00	0.05814	0.00549	0.00970	0.01118	0.01519
5953744172763	Offsite Worker	595374.00	4172763.00	0.07886	0.00603	0.00799	0.01028	0.01402
5955344172763	Offsite Worker	595534.00	4172763.00	0.08083	0.00359	0.00288	0.00497	0.00647
5955544172763	Offsite Worker	595554.00	4172763.00	0.07330	0.00348	0.00265	0.00473	0.00613

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5955744172763	Offsite Worker	595574.00	4172763.00	0.06686	0.00339	0.00246	0.00451	0.00585
5949344172783	Offsite Worker	594934.00	4172783.00	0.00365	0.00089	0.00124	0.00175	0.00213
5949544172783	Offsite Worker	594954.00	4172783.00	0.00382	0.00096	0.00137	0.00192	0.00233
5949744172783	Offsite Worker	594974.00	4172783.00	0.00401	0.00106	0.00152	0.00214	0.00258
5952744172783	Offsite Worker	595274.00	4172783.00	0.01551	0.00604	0.02236	0.01703	0.02840
5953544172783	Offsite Worker	595354.00	4172783.00	0.04092	0.00431	0.00870	0.00998	0.01301
5953744172783	Offsite Worker	595374.00	4172783.00	0.05396	0.00444	0.00730	0.00892	0.01174
5953944172783	Offsite Worker	595394.00	4172783.00	0.06944	0.00446	0.00625	0.00805	0.01071
5954144172783	Offsite Worker	595414.00	4172783.00	0.08432	0.00429	0.00541	0.00725	0.00970
5954344172783	Offsite Worker	595434.00	4172783.00	0.09102	0.00405	0.00473	0.00656	0.00878
5955144172783	Offsite Worker	595514.00	4172783.00	0.07292	0.00335	0.00304	0.00486	0.00639
5955344172783	Offsite Worker	595534.00	4172783.00	0.06739	0.00325	0.00278	0.00460	0.00603
5955544172783	Offsite Worker	595554.00	4172783.00	0.06224	0.00317	0.00256	0.00437	0.00573
5955744172783	Offsite Worker	595574.00	4172783.00	0.05770	0.00309	0.00237	0.00418	0.00546
5955944172783	Offsite Worker	595594.00	4172783.00	0.05332	0.00302	0.00220	0.00399	0.00522
5956144172783	Offsite Worker	595614.00	4172783.00	0.04948	0.00295	0.00206	0.00382	0.00501
5956344172783	Offsite Worker	595634.00	4172783.00	0.04588	0.00288	0.00194	0.00366	0.00482
5948944172803	Offsite Worker	594894.00	4172803.00	0.00302	0.00070	0.00096	0.00134	0.00166
5949144172803	Offsite Worker	594914.00	4172803.00	0.00316	0.00075	0.00106	0.00146	0.00181
5949344172803	Offsite Worker	594934.00	4172803.00	0.00331	0.00082	0.00119	0.00161	0.00201
5949544172803	Offsite Worker	594954.00	4172803.00	0.00347	0.00089	0.00133	0.00178	0.00222
5949744172803	Offsite Worker	594974.00	4172803.00	0.00364	0.00098	0.00149	0.00198	0.00247
5952744172803	Offsite Worker	595274.00	4172803.00	0.01320	0.00537	0.01995	0.02307	0.02532
5952944172803	Offsite Worker	595294.00	4172803.00	0.01576	0.00454	0.01510	0.01656	0.01964
5953144172803	Offsite Worker	595314.00	4172803.00	0.01952	0.00404	0.01183	0.01294	0.01587
5953544172803	Offsite Worker	595354.00	4172803.00	0.03185	0.00365	0.00800	0.00910	0.01165
5953744172803	Offsite Worker	595374.00	4172803.00	0.04039	0.00364	0.00678	0.00801	0.01042
5953944172803	Offsite Worker	595394.00	4172803.00	0.05007	0.00363	0.00585	0.00718	0.00948
5954144172803	Offsite Worker	595414.00	4172803.00	0.05925	0.00357	0.00511	0.00651	0.00868
5954344172803	Offsite Worker	595434.00	4172803.00	0.06482	0.00346	0.00449	0.00594	0.00795
5954544172803	Offsite Worker	595454.00	4172803.00	0.06637	0.00334	0.00399	0.00548	0.00733
5954744172803	Offsite Worker	595474.00	4172803.00	0.06550	0.00324	0.00357	0.00509	0.00681
5955344172803	Offsite Worker	595534.00	4172803.00	0.05664	0.00297	0.00268	0.00426	0.00565
5955544172803	Offsite Worker	595554.00	4172803.00	0.05311	0.00290	0.00246	0.00405	0.00536
5955744172803	Offsite Worker	595574.00	4172803.00	0.04988	0.00283	0.00228	0.00387	0.00511
5955944172803	Offsite Worker	595594.00	4172803.00	0.04660	0.00277	0.00212	0.00371	0.00489
5956144172803	Offsite Worker	595614.00	4172803.00	0.04371	0.00272	0.00198	0.00355	0.00470
5956344172803	Offsite Worker	595634.00	4172803.00	0.04095	0.00266	0.00186	0.00341	0.00452
5956544172803	Offsite Worker	595654.00	4172803.00	0.03834	0.00260	0.00175	0.00327	0.00435
5956744172803	Offsite Worker	595674.00	4172803.00	0.03592	0.00254	0.00165	0.00314	0.00419
5948744172823	Offsite Worker	594874.00	4172823.00	0.00267	0.00060	0.00080	0.00110	0.00140
5948944172823	Offsite Worker	594894.00	4172823.00	0.00279	0.00064	0.00089	0.00121	0.00153
5949144172823	Offsite Worker	594914.00	4172823.00	0.00291	0.00069	0.00100	0.00132	0.00169
5949344172823	Offsite Worker	594934.00	4172823.00	0.00304	0.00075	0.00112	0.00145	0.00187
5949544172823	Offsite Worker	594954.00	4172823.00	0.00318	0.00081	0.00127	0.00160	0.00208
5952544172823	Offsite Worker	595254.00	4172823.00	0.00996	0.00588	0.02212	0.04834	0.02800
5952744172823	Offsite Worker	595274.00	4172823.00	0.01157	0.00472	0.01760	0.02506	0.02232
5952944172823	Offsite Worker	595294.00	4172823.00	0.01372	0.00401	0.01345	0.01626	0.01746
5953344172823	Offsite Worker	595334.00	4172823.00	0.02073	0.00331	0.00883	0.00968	0.01214
5953544172823	Offsite Worker	595354.00	4172823.00	0.02570	0.00317	0.00742	0.00818	0.01059
5953744172823	Offsite Worker	595374.00	4172823.00	0.03186	0.00312	0.00638	0.00717	0.00950
5953944172823	Offsite Worker	595394.00	4172823.00	0.03844	0.00310	0.00553	0.00643	0.00863
5954144172823	Offsite Worker	595414.00	4172823.00	0.04458	0.00306	0.00484	0.00585	0.00790
5954344172823	Offsite Worker	595434.00	4172823.00	0.04910	0.00301	0.00428	0.00538	0.00729
5954544172823	Offsite Worker	595454.00	4172823.00	0.05140	0.00295	0.00381	0.00500	0.00676
5954744172823	Offsite Worker	595474.00	4172823.00	0.05182	0.00289	0.00341	0.00467	0.00630
5954944172823	Offsite Worker	595494.00	4172823.00	0.05113	0.00283	0.00308	0.00440	0.00591
5955144172823	Offsite Worker	595514.00	4172823.00	0.04966	0.00277	0.00280	0.00416	0.00557
5955344172823	Offsite Worker	595534.00	4172823.00	0.04778	0.00271	0.00257	0.00395	0.00528
5955744172823	Offsite Worker	595574.00	4172823.00	0.04335	0.00261	0.00218	0.00360	0.00479
5955944172823	Offsite Worker	595594.00	4172823.00	0.04098	0.00256	0.00203	0.00345	0.00459
5956144172823	Offsite Worker	595614.00	4172823.00	0.03875	0.00251	0.00190	0.00331	0.00441
5956344172823	Offsite Worker	595634.00	4172823.00	0.03655	0.00246	0.00178	0.00318	0.00424
5956544172823	Offsite Worker	595654.00	4172823.00	0.03450	0.00241	0.00168	0.00306	0.00409
5956744172823	Offsite Worker	595674.00	4172823.00	0.03254	0.00236	0.00158	0.00294	0.00394
5948744172843	Offsite Worker	594874.00	4172843.00	0.00249	0.00056	0.00072	0.00101	0.00128
5948944172843	Offsite Worker	594894.00	4172843.00	0.00259	0.00059	0.00081	0.00108	0.00140
5949144172843	Offsite Worker	594914.00	4172843.00	0.00270	0.00064	0.00091	0.00118	0.00155
5949344172843	Offsite Worker	594934.00	4172843.00	0.00282	0.00068	0.00103	0.00129	0.00171

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5949544172843	Offsite Worker	594954.00	4172843.00	0.00294	0.00073	0.00117	0.00142	0.00190
5952544172843	Offsite Worker	595254.00	4172843.00	0.00894	0.00500	0.02024	0.03511	0.02524
5952744172843	Offsite Worker	595274.00	4172843.00	0.01035	0.00408	0.01568	0.02072	0.01976
5952944172843	Offsite Worker	595294.00	4172843.00	0.01216	0.00351	0.01218	0.01397	0.01569
5953344172843	Offsite Worker	595334.00	4172843.00	0.01760	0.00291	0.00822	0.00847	0.01113
5953544172843	Offsite Worker	595354.00	4172843.00	0.02140	0.00279	0.00700	0.00720	0.00979
5953744172843	Offsite Worker	595374.00	4172843.00	0.02588	0.00273	0.00604	0.00634	0.00877
5953944172843	Offsite Worker	595394.00	4172843.00	0.03067	0.00270	0.00526	0.00572	0.00796
5954144172843	Offsite Worker	595414.00	4172843.00	0.03524	0.00268	0.00462	0.00525	0.00730
5954344172843	Offsite Worker	595434.00	4172843.00	0.03882	0.00266	0.00409	0.00486	0.00675
5954544172843	Offsite Worker	595454.00	4172843.00	0.04112	0.00263	0.00364	0.00455	0.00627
5954744172843	Offsite Worker	595474.00	4172843.00	0.04208	0.00259	0.00326	0.00428	0.00585
5954944172843	Offsite Worker	595494.00	4172843.00	0.04223	0.00256	0.00294	0.00405	0.00550
5955144172843	Offsite Worker	595514.00	4172843.00	0.04168	0.00252	0.00268	0.00385	0.00520
5955344172843	Offsite Worker	595534.00	4172843.00	0.04057	0.00248	0.00245	0.00366	0.00493
5955544172843	Offsite Worker	595554.00	4172843.00	0.03922	0.00244	0.00225	0.00350	0.00469
5955744172843	Offsite Worker	595574.00	4172843.00	0.03777	0.00240	0.00209	0.00336	0.00449
5956344172843	Offsite Worker	595634.00	4172843.00	0.03270	0.00228	0.00170	0.00297	0.00398
5956544172843	Offsite Worker	595654.00	4172843.00	0.03106	0.00224	0.00160	0.00286	0.00384
5956744172843	Offsite Worker	595674.00	4172843.00	0.02946	0.00220	0.00151	0.00275	0.00371
5948544172863	Offsite Worker	594854.00	4172863.00	0.00225	0.00050	0.00058	0.00086	0.00108
5948744172863	Offsite Worker	594874.00	4172863.00	0.00234	0.00052	0.00065	0.00092	0.00117
5948944172863	Offsite Worker	594894.00	4172863.00	0.00242	0.00054	0.00072	0.00097	0.00126
5949144172863	Offsite Worker	594914.00	4172863.00	0.00252	0.00057	0.00081	0.00104	0.00138
5949344172863	Offsite Worker	594934.00	4172863.00	0.00263	0.00062	0.00092	0.00115	0.00154
5952344172863	Offsite Worker	595234.00	4172863.00	0.00716	0.00527	0.02179	0.01806	0.02706
5952544172863	Offsite Worker	595254.00	4172863.00	0.00810	0.00411	0.01803	0.02086	0.02214
5952744172863	Offsite Worker	595274.00	4172863.00	0.00928	0.00344	0.01398	0.01480	0.01742
5952944172863	Offsite Worker	595294.00	4172863.00	0.01089	0.00303	0.01133	0.01109	0.01436
5953144172863	Offsite Worker	595314.00	4172863.00	0.01285	0.00275	0.00936	0.00873	0.01211
5953344172863	Offsite Worker	595334.00	4172863.00	0.01527	0.00257	0.00787	0.00724	0.01044
5953544172863	Offsite Worker	595354.00	4172863.00	0.01819	0.00246	0.00671	0.00625	0.00917
5953744172863	Offsite Worker	595374.00	4172863.00	0.02163	0.00241	0.00580	0.00557	0.00821
5953944172863	Offsite Worker	595394.00	4172863.00	0.02519	0.00238	0.00503	0.00507	0.00741
5954144172863	Offsite Worker	595414.00	4172863.00	0.02868	0.00237	0.00441	0.00469	0.00678
5954344172863	Offsite Worker	595434.00	4172863.00	0.03160	0.00237	0.00389	0.00438	0.00626
5954544172863	Offsite Worker	595454.00	4172863.00	0.03377	0.00236	0.00347	0.00413	0.00583
5954744172863	Offsite Worker	595474.00	4172863.00	0.03497	0.00235	0.00311	0.00391	0.00546
5954944172863	Offsite Worker	595494.00	4172863.00	0.03547	0.00233	0.00280	0.00372	0.00513
5955144172863	Offsite Worker	595514.00	4172863.00	0.03536	0.00230	0.00254	0.00355	0.00484
5955344172863	Offsite Worker	595534.00	4172863.00	0.03479	0.00228	0.00232	0.00339	0.00460
5955544172863	Offsite Worker	595554.00	4172863.00	0.03399	0.00225	0.00214	0.00325	0.00439
5955744172863	Offsite Worker	595574.00	4172863.00	0.03311	0.00222	0.00198	0.00313	0.00420
5955944172863	Offsite Worker	595594.00	4172863.00	0.03198	0.00219	0.00185	0.00301	0.00404
5956144172863	Offsite Worker	595614.00	4172863.00	0.03079	0.00216	0.00173	0.00290	0.00389
5948544172883	Offsite Worker	594854.00	4172883.00	0.00212	0.00046	0.00051	0.00077	0.00097
5948744172883	Offsite Worker	594874.00	4172883.00	0.00219	0.00048	0.00056	0.00082	0.00104
5948944172883	Offsite Worker	594894.00	4172883.00	0.00228	0.00050	0.00063	0.00087	0.00113
5949144172883	Offsite Worker	594914.00	4172883.00	0.00237	0.00052	0.00070	0.00093	0.00122
5952344172883	Offsite Worker	595234.00	4172883.00	0.00659	0.00397	0.02074	0.01260	0.02471
5952544172883	Offsite Worker	595254.00	4172883.00	0.00741	0.00328	0.01655	0.01220	0.01983
5952744172883	Offsite Worker	595274.00	4172883.00	0.00844	0.00286	0.01328	0.01033	0.01614
5952944172883	Offsite Worker	595294.00	4172883.00	0.00976	0.00258	0.01103	0.00856	0.01361
5953144172883	Offsite Worker	595314.00	4172883.00	0.01136	0.00238	0.00920	0.00715	0.01158
5953344172883	Offsite Worker	595334.00	4172883.00	0.01340	0.00226	0.00775	0.00616	0.01001
5953744172883	Offsite Worker	595374.00	4172883.00	0.01850	0.00215	0.00560	0.00491	0.00775
5953944172883	Offsite Worker	595394.00	4172883.00	0.02123	0.00213	0.00481	0.00450	0.00694
5954144172883	Offsite Worker	595414.00	4172883.00	0.02395	0.00212	0.00419	0.00419	0.00631
5954344172883	Offsite Worker	595434.00	4172883.00	0.02639	0.00213	0.00370	0.00395	0.00583
5954544172883	Offsite Worker	595454.00	4172883.00	0.02818	0.00213	0.00328	0.00375	0.00541
5954744172883	Offsite Worker	595474.00	4172883.00	0.02943	0.00213	0.00294	0.00357	0.00507
5954944172883	Offsite Worker	595494.00	4172883.00	0.03010	0.00212	0.00265	0.00342	0.00477
5955144172883	Offsite Worker	595514.00	4172883.00	0.03037	0.00211	0.00241	0.00328	0.00452
5955344172883	Offsite Worker	595534.00	4172883.00	0.03018	0.00209	0.00220	0.00315	0.00429
5955544172883	Offsite Worker	595554.00	4172883.00	0.02977	0.00208	0.00203	0.00303	0.00411
5955744172883	Offsite Worker	595574.00	4172883.00	0.02918	0.00206	0.00188	0.00292	0.00394
5955944172883	Offsite Worker	595594.00	4172883.00	0.02832	0.00203	0.00175	0.00281	0.00378
5956144172883	Offsite Worker	595614.00	4172883.00	0.02738	0.00200	0.00163	0.00271	0.00363
5956344172883	Offsite Worker	595634.00	4172883.00	0.02640	0.00197	0.00153	0.00261	0.00350

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5956544172883	Offsite Worker	595654.00	4172883.00	0.02540	0.00195	0.00145	0.00252	0.00340
5948544172903	Offsite Worker	594854.00	4172903.00	0.00200	0.00043	0.00044	0.00070	0.00087
5948744172903	Offsite Worker	594874.00	4172903.00	0.00207	0.00045	0.00048	0.00075	0.00093
5948944172903	Offsite Worker	594894.00	4172903.00	0.00215	0.00046	0.00054	0.00079	0.00100
5949144172903	Offsite Worker	594914.00	4172903.00	0.00223	0.00049	0.00060	0.00084	0.00109
5952344172903	Offsite Worker	595234.00	4172903.00	0.00610	0.00293	0.02063	0.00773	0.02356
5952544172903	Offsite Worker	595254.00	4172903.00	0.00682	0.00260	0.01713	0.00792	0.01973
5952744172903	Offsite Worker	595274.00	4172903.00	0.00772	0.00236	0.01428	0.00744	0.01664
5952944172903	Offsite Worker	595294.00	4172903.00	0.00884	0.00219	0.01182	0.00667	0.01401
5953144172903	Offsite Worker	595314.00	4172903.00	0.01018	0.00207	0.00953	0.00589	0.01160
5953344172903	Offsite Worker	595334.00	4172903.00	0.01185	0.00199	0.00774	0.00525	0.00973
5953544172903	Offsite Worker	595354.00	4172903.00	0.01375	0.00194	0.00636	0.00473	0.00830
5953744172903	Offsite Worker	595374.00	4172903.00	0.01593	0.00191	0.00535	0.00433	0.00726
5954144172903	Offsite Worker	595414.00	4172903.00	0.02045	0.00192	0.00396	0.00378	0.00588
5954344172903	Offsite Worker	595434.00	4172903.00	0.02239	0.00192	0.00347	0.00358	0.00539
5954544172903	Offsite Worker	595454.00	4172903.00	0.02395	0.00193	0.00308	0.00341	0.00501
5954744172903	Offsite Worker	595474.00	4172903.00	0.02510	0.00194	0.00275	0.00327	0.00469
5954944172903	Offsite Worker	595494.00	4172903.00	0.02586	0.00194	0.00248	0.00314	0.00442
5955144172903	Offsite Worker	595514.00	4172903.00	0.02622	0.00194	0.00226	0.00302	0.00420
5955344172903	Offsite Worker	595534.00	4172903.00	0.02628	0.00193	0.00207	0.00292	0.00400
5955544172903	Offsite Worker	595554.00	4172903.00	0.02616	0.00192	0.00191	0.00282	0.00383
5955744172903	Offsite Worker	595574.00	4172903.00	0.02581	0.00190	0.00177	0.00272	0.00367
5955944172903	Offsite Worker	595594.00	4172903.00	0.02519	0.00188	0.00165	0.00263	0.00353
5956144172903	Offsite Worker	595614.00	4172903.00	0.02449	0.00186	0.00154	0.00254	0.00340
5956344172903	Offsite Worker	595634.00	4172903.00	0.02378	0.00184	0.00145	0.00245	0.00329
5948544172923	Offsite Worker	594854.00	4172923.00	0.00190	0.00040	0.00037	0.00065	0.00077
5948744172923	Offsite Worker	594874.00	4172923.00	0.00197	0.00042	0.00041	0.00069	0.00083
5948944172923	Offsite Worker	594894.00	4172923.00	0.00204	0.00044	0.00045	0.00073	0.00089
5949144172923	Offsite Worker	594914.00	4172923.00	0.00212	0.00046	0.00050	0.00079	0.00096
5952544172923	Offsite Worker	595254.00	4172923.00	0.00631	0.00209	0.02270	0.00565	0.02479
5952744172923	Offsite Worker	595274.00	4172923.00	0.00710	0.00198	0.01822	0.00558	0.02020
5952944172923	Offsite Worker	595294.00	4172923.00	0.00804	0.00188	0.01348	0.00527	0.01536
5953144172923	Offsite Worker	595314.00	4172923.00	0.00919	0.00181	0.00986	0.00488	0.01167
5953344172923	Offsite Worker	595334.00	4172923.00	0.01060	0.00176	0.00758	0.00450	0.00934
5953544172923	Offsite Worker	595354.00	4172923.00	0.01215	0.00173	0.00605	0.00414	0.00778
5953744172923	Offsite Worker	595374.00	4172923.00	0.01390	0.00172	0.00500	0.00384	0.00672
5953944172923	Offsite Worker	595394.00	4172923.00	0.01575	0.00172	0.00424	0.00360	0.00596
5954144172923	Offsite Worker	595414.00	4172923.00	0.01758	0.00173	0.00367	0.00341	0.00540
5954744172923	Offsite Worker	595474.00	4172923.00	0.02172	0.00177	0.00256	0.00300	0.00433
5954944172923	Offsite Worker	595494.00	4172923.00	0.02242	0.00178	0.00231	0.00289	0.00409
5955144172923	Offsite Worker	595514.00	4172923.00	0.02287	0.00178	0.00211	0.00279	0.00389
5955344172923	Offsite Worker	595534.00	4172923.00	0.02305	0.00178	0.00193	0.00270	0.00371
5955544172923	Offsite Worker	595554.00	4172923.00	0.02310	0.00178	0.00179	0.00262	0.00357
5955744172923	Offsite Worker	595574.00	4172923.00	0.02289	0.00177	0.00166	0.00254	0.00343
5955944172923	Offsite Worker	595594.00	4172923.00	0.02251	0.00175	0.00155	0.00246	0.00330
5956144172923	Offsite Worker	595614.00	4172923.00	0.02208	0.00174	0.00146	0.00238	0.00320
5956344172923	Offsite Worker	595634.00	4172923.00	0.02151	0.00172	0.00137	0.00230	0.00309
5953144172943	Offsite Worker	595314.00	4172943.00	0.00837	0.00160	0.00922	0.00408	0.01082
5953344172943	Offsite Worker	595334.00	4172943.00	0.00953	0.00157	0.00692	0.00386	0.00849
5953544172943	Offsite Worker	595354.00	4172943.00	0.01086	0.00156	0.00549	0.00364	0.00705
5953744172943	Offsite Worker	595374.00	4172943.00	0.01231	0.00155	0.00453	0.00343	0.00608
5953944172943	Offsite Worker	595394.00	4172943.00	0.01385	0.00156	0.00385	0.00325	0.00541
5954144172943	Offsite Worker	595414.00	4172943.00	0.01534	0.00157	0.00334	0.00310	0.00491
5954344172943	Offsite Worker	595434.00	4172943.00	0.01673	0.00159	0.00294	0.00297	0.00453
5954544172943	Offsite Worker	595454.00	4172943.00	0.01793	0.00161	0.00261	0.00285	0.00422
5955144172943	Offsite Worker	595514.00	4172943.00	0.02015	0.00165	0.00195	0.00259	0.00360
5955344172943	Offsite Worker	595534.00	4172943.00	0.02041	0.00165	0.00180	0.00252	0.00345
5955544172943	Offsite Worker	595554.00	4172943.00	0.02051	0.00165	0.00167	0.00244	0.00332
5955744172943	Offsite Worker	595574.00	4172943.00	0.02039	0.00164	0.00155	0.00237	0.00319
5955944172943	Offsite Worker	595594.00	4172943.00	0.02020	0.00163	0.00145	0.00230	0.00308
5956144172943	Offsite Worker	595614.00	4172943.00	0.01991	0.00162	0.00137	0.00223	0.00299
5956344172943	Offsite Worker	595634.00	4172943.00	0.01949	0.00161	0.00129	0.00217	0.00290
5953144172963	Offsite Worker	595314.00	4172963.00	0.00764	0.00142	0.00753	0.00343	0.00895
5953344172963	Offsite Worker	595334.00	4172963.00	0.00866	0.00142	0.00587	0.00333	0.00729
5953544172963	Offsite Worker	595354.00	4172963.00	0.00978	0.00141	0.00475	0.00320	0.00616
5953744172963	Offsite Worker	595374.00	4172963.00	0.01100	0.00141	0.00397	0.00306	0.00538
5953944172963	Offsite Worker	595394.00	4172963.00	0.01227	0.00142	0.00341	0.00294	0.00483
5954144172963	Offsite Worker	595414.00	4172963.00	0.01352	0.00144	0.00298	0.00282	0.00442
5954344172963	Offsite Worker	595434.00	4172963.00	0.01471	0.00146	0.00264	0.00272	0.00410

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5954544172963	Offsite Worker	595454.00	4172963.00	0.01575	0.00148	0.00237	0.00263	0.00385
5954744172963	Offsite Worker	595474.00	4172963.00	0.01660	0.00149	0.00214	0.00254	0.00363
5954944172963	Offsite Worker	595494.00	4172963.00	0.01731	0.00151	0.00195	0.00247	0.00346
5955144172963	Offsite Worker	595514.00	4172963.00	0.01782	0.00152	0.00180	0.00241	0.00332
5955544172963	Offsite Worker	595554.00	4172963.00	0.01830	0.00153	0.00155	0.00228	0.00308
5955744172963	Offsite Worker	595574.00	4172963.00	0.01830	0.00153	0.00144	0.00222	0.00297
5955944172963	Offsite Worker	595594.00	4172963.00	0.01820	0.00152	0.00136	0.00216	0.00288
5956144172963	Offsite Worker	595614.00	4172963.00	0.01801	0.00151	0.00128	0.00210	0.00279
5953144172983	Offsite Worker	595314.00	4172983.00	0.00702	0.00127	0.00576	0.00293	0.00703
5953344172983	Offsite Worker	595334.00	4172983.00	0.00790	0.00128	0.00473	0.00289	0.00601
5953544172983	Offsite Worker	595354.00	4172983.00	0.00886	0.00129	0.00396	0.00282	0.00525
5953744172983	Offsite Worker	595374.00	4172983.00	0.00990	0.00129	0.00340	0.00274	0.00469
5953944172983	Offsite Worker	595394.00	4172983.00	0.01098	0.00131	0.00297	0.00266	0.00428
5954144172983	Offsite Worker	595414.00	4172983.00	0.01204	0.00132	0.00262	0.00257	0.00394
5954344172983	Offsite Worker	595434.00	4172983.00	0.01306	0.00134	0.00235	0.00250	0.00369
5954544172983	Offsite Worker	595454.00	4172983.00	0.01398	0.00136	0.00213	0.00243	0.00349
5954744172983	Offsite Worker	595474.00	4172983.00	0.01474	0.00138	0.00194	0.00236	0.00332
5954944172983	Offsite Worker	595494.00	4172983.00	0.01539	0.00140	0.00178	0.00230	0.00318
5955144172983	Offsite Worker	595514.00	4172983.00	0.01585	0.00141	0.00164	0.00224	0.00305
5955344172983	Offsite Worker	595534.00	4172983.00	0.01619	0.00142	0.00153	0.00219	0.00295
5955544172983	Offsite Worker	595554.00	4172983.00	0.01640	0.00142	0.00143	0.00213	0.00285
5955744172983	Offsite Worker	595574.00	4172983.00	0.01645	0.00142	0.00134	0.00208	0.00276
5955944172983	Offsite Worker	595594.00	4172983.00	0.01643	0.00142	0.00126	0.00203	0.00268
5956144172983	Offsite Worker	595614.00	4172983.00	0.01634	0.00142	0.00119	0.00198	0.00261
5953144173003	Offsite Worker	595314.00	4173003.00	0.00650	0.00115	0.00436	0.00254	0.00551
5953344173003	Offsite Worker	595334.00	4173003.00	0.00723	0.00116	0.00375	0.00253	0.00491
5953544173003	Offsite Worker	595354.00	4173003.00	0.00807	0.00117	0.00326	0.00250	0.00443
5953744173003	Offsite Worker	595374.00	4173003.00	0.00896	0.00119	0.00287	0.00245	0.00406
5953944173003	Offsite Worker	595394.00	4173003.00	0.00988	0.00120	0.00255	0.00240	0.00375
5954144173003	Offsite Worker	595414.00	4173003.00	0.01080	0.00122	0.00230	0.00235	0.00352
5954344173003	Offsite Worker	595434.00	4173003.00	0.01168	0.00124	0.00208	0.00229	0.00332
5954544173003	Offsite Worker	595454.00	4173003.00	0.01249	0.00126	0.00190	0.00224	0.00316
5954744173003	Offsite Worker	595474.00	4173003.00	0.01318	0.00128	0.00175	0.00219	0.00303
5954944173003	Offsite Worker	595494.00	4173003.00	0.01376	0.00130	0.00161	0.00214	0.00291
5955144173003	Offsite Worker	595514.00	4173003.00	0.01421	0.00131	0.00150	0.00209	0.00281
5955344173003	Offsite Worker	595534.00	4173003.00	0.01455	0.00132	0.00140	0.00205	0.00272
5955544173003	Offsite Worker	595554.00	4173003.00	0.01478	0.00133	0.00131	0.00200	0.00264
5955744173003	Offsite Worker	595574.00	4173003.00	0.01487	0.00133	0.00124	0.00195	0.00257
5955944173003	Offsite Worker	595594.00	4173003.00	0.01490	0.00133	0.00117	0.00191	0.00250
5952944173023	Offsite Worker	595294.00	4173023.00	0.00542	0.00103	0.00360	0.00219	0.00463
5953144173023	Offsite Worker	595314.00	4173023.00	0.00600	0.00104	0.00329	0.00222	0.00433
5953344173023	Offsite Worker	595334.00	4173023.00	0.00666	0.00106	0.00298	0.00223	0.00404
5953544173023	Offsite Worker	595354.00	4173023.00	0.00739	0.00108	0.00269	0.00223	0.00377
5953744173023	Offsite Worker	595374.00	4173023.00	0.00816	0.00109	0.00242	0.00220	0.00351
5953944173023	Offsite Worker	595394.00	4173023.00	0.00895	0.00111	0.00220	0.00218	0.00331
5954144173023	Offsite Worker	595414.00	4173023.00	0.00975	0.00113	0.00200	0.00214	0.00313
5954344173023	Offsite Worker	595434.00	4173023.00	0.01051	0.00115	0.00183	0.00211	0.00298
5954544173023	Offsite Worker	595454.00	4173023.00	0.01121	0.00117	0.00169	0.00207	0.00286
5954744173023	Offsite Worker	595474.00	4173023.00	0.01184	0.00119	0.00157	0.00203	0.00276
5954944173023	Offsite Worker	595494.00	4173023.00	0.01239	0.00121	0.00146	0.00200	0.00267
5955144173023	Offsite Worker	595514.00	4173023.00	0.01281	0.00122	0.00137	0.00196	0.00259
5955344173023	Offsite Worker	595534.00	4173023.00	0.01315	0.00123	0.00128	0.00192	0.00251
5955544173023	Offsite Worker	595554.00	4173023.00	0.01338	0.00124	0.00121	0.00188	0.00245
5955744173023	Offsite Worker	595574.00	4173023.00	0.01351	0.00125	0.00114	0.00184	0.00239
5955944173023	Offsite Worker	595594.00	4173023.00	0.01358	0.00125	0.00108	0.00180	0.00233
5952944173043	Offsite Worker	595294.00	4173043.00	0.00507	0.00093	0.00267	0.00192	0.00360
5953144173043	Offsite Worker	595314.00	4173043.00	0.00558	0.00095	0.00255	0.00196	0.00350
5953344173043	Offsite Worker	595334.00	4173043.00	0.00616	0.00097	0.00240	0.00199	0.00337
5953544173043	Offsite Worker	595354.00	4173043.00	0.00679	0.00099	0.00222	0.00199	0.00321
5953744173043	Offsite Worker	595374.00	4173043.00	0.00747	0.00101	0.00205	0.00199	0.00306
5953944173043	Offsite Worker	595394.00	4173043.00	0.00816	0.00103	0.00189	0.00198	0.00292
5954144173043	Offsite Worker	595414.00	4173043.00	0.00885	0.00105	0.00175	0.00196	0.00280
5954344173043	Offsite Worker	595434.00	4173043.00	0.00951	0.00107	0.00162	0.00194	0.00269
5954544173043	Offsite Worker	595454.00	4173043.00	0.01014	0.00109	0.00151	0.00191	0.00260
5954744173043	Offsite Worker	595474.00	4173043.00	0.01070	0.00111	0.00141	0.00189	0.00252
5954944173043	Offsite Worker	595494.00	4173043.00	0.01120	0.00113	0.00132	0.00186	0.00245
5955144173043	Offsite Worker	595514.00	4173043.00	0.01160	0.00114	0.00124	0.00183	0.00238
5955344173043	Offsite Worker	595534.00	4173043.00	0.01191	0.00115	0.00117	0.00180	0.00232
5955544173043	Offsite Worker	595554.00	4173043.00	0.01216	0.00116	0.00111	0.00177	0.00227

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
5955744173043	Offsite Worker	595574.00	4173043.00	0.01232	0.00117	0.00105	0.00173	0.00222
5952944173063	Offsite Worker	595294.00	4173063.00	0.00475	0.00086	0.00205	0.00171	0.00291
5953144173063	Offsite Worker	595314.00	4173063.00	0.00521	0.00088	0.00202	0.00175	0.00290
5953344173063	Offsite Worker	595334.00	4173063.00	0.00572	0.00090	0.00194	0.00178	0.00284
5953544173063	Offsite Worker	595354.00	4173063.00	0.00628	0.00092	0.00185	0.00180	0.00277
5953744173063	Offsite Worker	595374.00	4173063.00	0.00686	0.00094	0.00174	0.00180	0.00268
5953944173063	Offsite Worker	595394.00	4173063.00	0.00746	0.00095	0.00163	0.00180	0.00258
5954144173063	Offsite Worker	595414.00	4173063.00	0.00806	0.00097	0.00153	0.00179	0.00250
5954344173063	Offsite Worker	595434.00	4173063.00	0.00865	0.00099	0.00143	0.00178	0.00242
5954544173063	Offsite Worker	595454.00	4173063.00	0.00922	0.00101	0.00135	0.00177	0.00236
5954744173063	Offsite Worker	595474.00	4173063.00	0.00973	0.00103	0.00127	0.00175	0.00230
5954944173063	Offsite Worker	595494.00	4173063.00	0.01019	0.00105	0.00120	0.00173	0.00225
5955144173063	Offsite Worker	595514.00	4173063.00	0.01056	0.00107	0.00113	0.00171	0.00220
5955344173063	Offsite Worker	595534.00	4173063.00	0.01086	0.00108	0.00107	0.00169	0.00215
5955544173063	Offsite Worker	595554.00	4173063.00	0.01110	0.00109	0.00102	0.00166	0.00211
5955744173063	Offsite Worker	595574.00	4173063.00	0.01126	0.00110	0.00097	0.00163	0.00207
5953544173083	Offsite Worker	595354.00	4173083.00	0.00582	0.00085	0.00155	0.00163	0.00240
5953744173083	Offsite Worker	595374.00	4173083.00	0.00632	0.00087	0.00148	0.00164	0.00235
5953944173083	Offsite Worker	595394.00	4173083.00	0.00685	0.00089	0.00141	0.00164	0.00230
5954144173083	Offsite Worker	595414.00	4173083.00	0.00738	0.00091	0.00134	0.00164	0.00225
5954344173083	Offsite Worker	595434.00	4173083.00	0.00791	0.00093	0.00127	0.00164	0.00220
5954544173083	Offsite Worker	595454.00	4173083.00	0.00842	0.00095	0.00121	0.00164	0.00216
5954744173083	Offsite Worker	595474.00	4173083.00	0.00889	0.00097	0.00115	0.00163	0.00212
5954944173083	Offsite Worker	595494.00	4173083.00	0.00932	0.00099	0.00109	0.00162	0.00208
5955144173083	Offsite Worker	595514.00	4173083.00	0.00967	0.00100	0.00104	0.00161	0.00204
5955344173083	Offsite Worker	595534.00	4173083.00	0.00993	0.00101	0.00099	0.00158	0.00200
5955544173083	Offsite Worker	595554.00	4173083.00	0.01017	0.00103	0.00094	0.00156	0.00197
5955744173083	Offsite Worker	595574.00	4173083.00	0.01033	0.00103	0.00090	0.00154	0.00193
5953344173103	Offsite Worker	595334.00	4173103.00	0.00497	0.00077	0.00133	0.00146	0.00210
5953544173103	Offsite Worker	595354.00	4173103.00	0.00540	0.00079	0.00130	0.00148	0.00209
5953744173103	Offsite Worker	595374.00	4173103.00	0.00585	0.00081	0.00127	0.00150	0.00208
5953944173103	Offsite Worker	595394.00	4173103.00	0.00631	0.00083	0.00122	0.00151	0.00205
5954144173103	Offsite Worker	595414.00	4173103.00	0.00678	0.00085	0.00117	0.00151	0.00202
5954344173103	Offsite Worker	595434.00	4173103.00	0.00726	0.00087	0.00113	0.00151	0.00200
5954544173103	Offsite Worker	595454.00	4173103.00	0.00772	0.00089	0.00108	0.00152	0.00197
5954744173103	Offsite Worker	595474.00	4173103.00	0.00815	0.00091	0.00104	0.00152	0.00195
5954944173103	Offsite Worker	595494.00	4173103.00	0.00855	0.00093	0.00100	0.00151	0.00193
5955144173103	Offsite Worker	595514.00	4173103.00	0.00884	0.00094	0.00095	0.00150	0.00189
5953344173123	Offsite Worker	595334.00	4173123.00	0.00464	0.00072	0.00112	0.00133	0.00184
5953544173123	Offsite Worker	595354.00	4173123.00	0.00503	0.00074	0.00111	0.00136	0.00185
5953744173123	Offsite Worker	595374.00	4173123.00	0.00543	0.00076	0.00109	0.00137	0.00185
5953944173123	Offsite Worker	595394.00	4173123.00	0.00584	0.00077	0.00106	0.00139	0.00183
5954144173123	Offsite Worker	595414.00	4173123.00	0.00627	0.00079	0.00103	0.00140	0.00182
5954344173123	Offsite Worker	595434.00	4173123.00	0.00669	0.00081	0.00100	0.00140	0.00181
5954544173123	Offsite Worker	595454.00	4173123.00	0.00711	0.00083	0.00097	0.00141	0.00180
5954744173123	Offsite Worker	595474.00	4173123.00	0.00752	0.00085	0.00094	0.00141	0.00179
5954944173123	Offsite Worker	595494.00	4173123.00	0.00787	0.00087	0.00091	0.00141	0.00178
5955144173123	Offsite Worker	595514.00	4173123.00	0.00813	0.00088	0.00087	0.00140	0.00175
5953544173143	Offsite Worker	595354.00	4173143.00	0.00470	0.00069	0.00095	0.00125	0.00164
5953744173143	Offsite Worker	595374.00	4173143.00	0.00506	0.00071	0.00095	0.00127	0.00166
5953944173143	Offsite Worker	595394.00	4173143.00	0.00543	0.00073	0.00093	0.00128	0.00166
5954144173143	Offsite Worker	595414.00	4173143.00	0.00584	0.00075	0.00092	0.00130	0.00167
5954344173143	Offsite Worker	595434.00	4173143.00	0.00622	0.00077	0.00090	0.00131	0.00167
5954944173143	Offsite Worker	595494.00	4173143.00	0.00723	0.00082	0.00082	0.00132	0.00164
5953544173163	Offsite Worker	595354.00	4173163.00	0.00441	0.00065	0.00083	0.00116	0.00148
5953744173163	Offsite Worker	595374.00	4173163.00	0.00473	0.00067	0.00083	0.00117	0.00150
5953944173163	Offsite Worker	595394.00	4173163.00	0.00507	0.00068	0.00082	0.00119	0.00150
5954144173163	Offsite Worker	595414.00	4173163.00	0.00543	0.00070	0.00082	0.00120	0.00152
5954344173163	Offsite Worker	595434.00	4173163.00	0.00577	0.00072	0.00080	0.00121	0.00152
5953744173183	Offsite Worker	595374.00	4173183.00	0.00444	0.00063	0.00073	0.00109	0.00136
5953944173183	Offsite Worker	595394.00	4173183.00	0.00474	0.00065	0.00073	0.00111	0.00138
5954144173183	Offsite Worker	595414.00	4173183.00	0.00505	0.00066	0.00073	0.00112	0.00139
5954344173183	Offsite Worker	595434.00	4173183.00	0.00536	0.00068	0.00072	0.00113	0.00140
595203.124172931.43	Onsite Worker	595203.12	4172931.43	0.00481	0.00206	0.01899	0.00424	0.02105
595305.294173022.49	Offsite Worker	595305.29	4173022.49	0.00574	0.00104	0.00345	0.00221	0.00449
596059.854172738.92	Offsite Worker	596059.85	4172738.92	0.01504	0.00172	0.00082	0.00170	0.00254
595782.44171913.24	Offsite Worker	595782.40	4171913.24	0.00736	0.00762	0.00180	0.00303	0.00942
595790.494171877.76	Offsite Worker	595790.49	4171877.76	0.00562	0.00538	0.00128	0.00234	0.00666
595826.594171700.37	Offsite Worker	595826.59	4171700.37	0.00213	0.00148	0.00031	0.00090	0.00179

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
595857.854171568.4	Offsite Worker	595857.85	4171568.40	0.00133	0.00081	0.00015	0.00055	0.00096
595427.664172811.08	Offsite Worker	595427.66	4172811.08	0.05633	0.00329	0.00458	0.00586	0.00787
595616.964172890.78	Offsite Worker	595616.96	4172890.78	0.02608	0.00194	0.00158	0.00263	0.00352
595465.614172972.42	Offsite Worker	595465.61	4172972.42	0.01536	0.00143	0.00212	0.00248	0.00355
595413.934172953.11	Offsite Worker	595413.93	4172953.11	0.01437	0.00150	0.00316	0.00295	0.00466
595207.624172857.58	Onsite Worker	595207.62	4172857.58	0.00634	0.00965	0.01475	0.02219	0.02440
595229.354172793.73	Onsite Worker	595229.35	4172793.73	0.01017	0.01108	0.01514	0.02285	0.02622
595251.414172717.21	Onsite Worker	595251.41	4172717.21	0.02989	0.01251	0.01585	0.02628	0.02836
595276.164172654.64	Onsite Worker	595276.16	4172654.64	0.09906	0.01247	0.01879	0.02286	0.03126
595286.244171790.65	Offsite Residential	595286.24	4171790.65	0.00434	0.00343	0.00069	0.00112	0.00412
595306.244171790.65	Offsite Residential	595306.24	4171790.65	0.00419	0.00338	0.00066	0.00111	0.00404
595326.244171790.65	Offsite Residential	595326.24	4171790.65	0.00406	0.00330	0.00063	0.00110	0.00393
595266.244171810.65	Offsite Residential	595266.24	4171810.65	0.00493	0.00391	0.00082	0.00123	0.00473
595286.244171810.65	Offsite Residential	595286.24	4171810.65	0.00475	0.00389	0.00079	0.00122	0.00468
595306.244171810.65	Offsite Residential	595306.24	4171810.65	0.00460	0.00387	0.00077	0.00122	0.00464
595326.244171810.65	Offsite Residential	595326.24	4171810.65	0.00444	0.00381	0.00073	0.00121	0.00454
595246.244171830.65	Offsite Residential	595246.24	4171830.65	0.00564	0.00435	0.00098	0.00136	0.00533
595266.244171830.65	Offsite Residential	595266.24	4171830.65	0.00544	0.00440	0.00095	0.00135	0.00535
595286.244171830.65	Offsite Residential	595286.24	4171830.65	0.00525	0.00443	0.00092	0.00135	0.00535
595306.244171830.65	Offsite Residential	595306.24	4171830.65	0.00507	0.00444	0.00089	0.00134	0.00533
595326.244171830.65	Offsite Residential	595326.24	4171830.65	0.00489	0.00441	0.00086	0.00133	0.00527
595226.244171850.65	Offsite Residential	595226.24	4171850.65	0.00648	0.00470	0.00114	0.00148	0.00584
595246.244171850.65	Offsite Residential	595246.24	4171850.65	0.00628	0.00484	0.00113	0.00149	0.00597
595266.244171850.65	Offsite Residential	595266.24	4171850.65	0.00606	0.00495	0.00111	0.00149	0.00606
595286.244171850.65	Offsite Residential	595286.24	4171850.65	0.00584	0.00503	0.00108	0.00148	0.00611
595306.244171850.65	Offsite Residential	595306.24	4171850.65	0.00563	0.00509	0.00105	0.00148	0.00614
595326.244171850.65	Offsite Residential	595326.24	4171850.65	0.00542	0.00511	0.00101	0.00148	0.00612
595206.244171870.65	Offsite Residential	595206.24	4171870.65	0.00748	0.00492	0.00132	0.00162	0.00624
595226.244171870.65	Offsite Residential	595226.24	4171870.65	0.00726	0.00514	0.00132	0.00163	0.00646
595246.244171870.65	Offsite Residential	595246.24	4171870.65	0.00703	0.00533	0.00131	0.00163	0.00664
595266.244171870.65	Offsite Residential	595266.24	4171870.65	0.00678	0.00552	0.00130	0.00164	0.00682
595286.244171870.65	Offsite Residential	595286.24	4171870.65	0.00653	0.00568	0.00127	0.00164	0.00695
595306.244171870.65	Offsite Residential	595306.24	4171870.65	0.00629	0.00581	0.00124	0.00164	0.00705
595186.244171890.65	Offsite Residential	595186.24	4171890.65	0.00862	0.00497	0.00147	0.00175	0.00644
595206.244171890.65	Offsite Residential	595206.24	4171890.65	0.00840	0.00525	0.00149	0.00177	0.00674
595226.244171890.65	Offsite Residential	595226.24	4171890.65	0.00816	0.00553	0.00151	0.00178	0.00704
595246.244171890.65	Offsite Residential	595246.24	4171890.65	0.00791	0.00582	0.00151	0.00179	0.00733
595266.244171890.65	Offsite Residential	595266.24	4171890.65	0.00764	0.00609	0.00151	0.00180	0.00760
595286.244171890.65	Offsite Residential	595286.24	4171890.65	0.00736	0.00636	0.00150	0.00181	0.00786
595306.244171890.65	Offsite Residential	595306.24	4171890.65	0.00708	0.00660	0.00148	0.00182	0.00808
595186.244171910.65	Offsite Residential	595186.24	4171910.65	0.00968	0.00518	0.00163	0.00190	0.00681
595206.244171910.65	Offsite Residential	595206.24	4171910.65	0.00946	0.00551	0.00168	0.00192	0.00719
595226.244171910.65	Offsite Residential	595226.24	4171910.65	0.00921	0.00587	0.00171	0.00194	0.00758
595246.244171910.65	Offsite Residential	595246.24	4171910.65	0.00895	0.00625	0.00174	0.00196	0.00799
595266.244171910.65	Offsite Residential	595266.24	4171910.65	0.00867	0.00664	0.00176	0.00198	0.00840
595286.244171910.65	Offsite Residential	595286.24	4171910.65	0.00835	0.00702	0.00177	0.00200	0.00879
595306.244171910.65	Offsite Residential	595306.24	4171910.65	0.00804	0.00741	0.00177	0.00202	0.00918
595166.244171930.65	Offsite Residential	595166.24	4171930.65	0.01105	0.00498	0.00173	0.00205	0.00671
595186.244171930.65	Offsite Residential	595186.24	4171930.65	0.01088	0.00532	0.00180	0.00207	0.00712
595206.244171930.65	Offsite Residential	595206.24	4171930.65	0.01069	0.00571	0.00187	0.00210	0.00758
595226.244171930.65	Offsite Residential	595226.24	4171930.65	0.01045	0.00612	0.00194	0.00212	0.00806
595246.244171930.65	Offsite Residential	595246.24	4171930.65	0.01020	0.00659	0.00200	0.00215	0.00859
595266.244171930.65	Offsite Residential	595266.24	4171930.65	0.00989	0.00709	0.00205	0.00218	0.00914
595286.244171930.65	Offsite Residential	595286.24	4171930.65	0.00956	0.00761	0.00208	0.00221	0.00969
595166.244171950.65	Offsite Residential	595166.24	4171950.65	0.01238	0.00504	0.00187	0.00224	0.00691
595186.244171950.65	Offsite Residential	595186.24	4171950.65	0.01225	0.00540	0.00196	0.00226	0.00736
595206.244171950.65	Offsite Residential	595206.24	4171950.65	0.01209	0.00581	0.00206	0.00228	0.00787
595226.244171950.65	Offsite Residential	595226.24	4171950.65	0.01187	0.00627	0.00216	0.00231	0.00843
595246.244171950.65	Offsite Residential	595246.24	4171950.65	0.01164	0.00681	0.00226	0.00235	0.00907
595266.244171950.65	Offsite Residential	595266.24	4171950.65	0.01135	0.00740	0.00235	0.00239	0.00975
595286.244171950.65	Offsite Residential	595286.24	4171950.65	0.01102	0.00807	0.00244	0.00244	0.01051
595146.244171970.65	Offsite Residential	595146.24	4171970.65	0.01382	0.00471	0.00188	0.00239	0.00659
595166.244171970.65	Offsite Residential	595166.24	4171970.65	0.01381	0.00504	0.00199	0.00243	0.00703
595186.244171970.65	Offsite Residential	595186.24	4171970.65	0.01378	0.00541	0.00211	0.00246	0.00752
595206.244171970.65	Offsite Residential	595206.24	4171970.65	0.01369	0.00584	0.00224	0.00249	0.00808
595226.244171970.65	Offsite Residential	595226.24	4171970.65	0.01354	0.00632	0.00238	0.00252	0.00870
595246.244171970.65	Offsite Residential	595246.24	4171970.65	0.01337	0.00690	0.00253	0.00257	0.00943
595266.244171970.65	Offsite Residential	595266.24	4171970.65	0.01310	0.00757	0.00267	0.00262	0.01024
595146.244171990.65	Offsite Residential	595146.24	4171990.65	0.01530	0.00469	0.00196	0.00259	0.00665

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
595166.244171990.65	Offsite Residential	595166.24	4171990.65	0.01541	0.00502	0.00209	0.00264	0.00711
595186.244171990.65	Offsite Residential	595186.24	4171990.65	0.01548	0.00539	0.00223	0.00269	0.00762
595206.244171990.65	Offsite Residential	595206.24	4171990.65	0.01549	0.00580	0.00239	0.00273	0.00819
595852.664171825.33	Offsite Residential	595852.66	4171825.33	0.00455	0.00362	0.00086	0.00180	0.00448
595852.664171845.33	Offsite Residential	595852.66	4171845.33	0.00519	0.00422	0.00101	0.00202	0.00523
595852.664171865.33	Offsite Residential	595852.66	4171865.33	0.00595	0.00493	0.00118	0.00227	0.00611
595872.664171865.33	Offsite Residential	595872.66	4171865.33	0.00618	0.00489	0.00117	0.00228	0.00606
595892.664171865.33	Offsite Residential	595892.66	4171865.33	0.00640	0.00483	0.00116	0.00228	0.00599
595832.664171885.33	Offsite Residential	595832.66	4171885.33	0.00661	0.00581	0.00138	0.00255	0.00719
595852.664171885.33	Offsite Residential	595852.66	4171885.33	0.00687	0.00575	0.00137	0.00256	0.00712
595872.664171885.33	Offsite Residential	595872.66	4171885.33	0.00711	0.00565	0.00134	0.00256	0.00699
595892.664171885.33	Offsite Residential	595892.66	4171885.33	0.00733	0.00552	0.00132	0.00253	0.00684
595832.664171905.33	Offsite Residential	595832.66	4171905.33	0.00767	0.00684	0.00161	0.00290	0.00845
595852.664171905.33	Offsite Residential	595852.66	4171905.33	0.00796	0.00667	0.00158	0.00289	0.00825
595872.664171905.33	Offsite Residential	595872.66	4171905.33	0.00820	0.00647	0.00153	0.00286	0.00800
595892.664171905.33	Offsite Residential	595892.66	4171905.33	0.00840	0.00625	0.00148	0.00281	0.00773
595912.664171905.33	Offsite Residential	595912.66	4171905.33	0.00853	0.00602	0.00143	0.00275	0.00745
595832.664171925.33	Offsite Residential	595832.66	4171925.33	0.00890	0.00802	0.00187	0.00330	0.00989
595852.664171925.33	Offsite Residential	595852.66	4171925.33	0.00918	0.00771	0.00180	0.00325	0.00951
595872.664171925.33	Offsite Residential	595872.66	4171925.33	0.00940	0.00738	0.00173	0.00318	0.00911
595892.664171925.33	Offsite Residential	595892.66	4171925.33	0.00959	0.00703	0.00165	0.00311	0.00868
595912.664171925.33	Offsite Residential	595912.66	4171925.33	0.00973	0.00669	0.00158	0.00302	0.00827
595852.664171945.33	Offsite Residential	595852.66	4171945.33	0.01066	0.00879	0.00203	0.00365	0.01082
595872.664171945.33	Offsite Residential	595872.66	4171945.33	0.01082	0.00832	0.00193	0.00354	0.01025
595892.664171945.33	Offsite Residential	595892.66	4171945.33	0.01092	0.00785	0.00183	0.00342	0.00968
595912.664171945.33	Offsite Residential	595912.66	4171945.33	0.01098	0.00740	0.00174	0.00330	0.00914
595932.664171945.33	Offsite Residential	595932.66	4171945.33	0.01102	0.00696	0.00165	0.00318	0.00861
595102.434172101.44	Offsite Residential	595102.43	4172101.44	0.02194	0.00365	0.00189	0.00319	0.00554
595122.434172101.44	Offsite Residential	595122.43	4172101.44	0.02275	0.00390	0.00200	0.00336	0.00590
595142.434172101.44	Offsite Residential	595142.43	4172101.44	0.02370	0.00418	0.00212	0.00356	0.00630
595102.434172121.44	Offsite Residential	595102.43	4172121.44	0.02303	0.00355	0.00191	0.00327	0.00546
595122.434172121.44	Offsite Residential	595122.43	4172121.44	0.02386	0.00380	0.00202	0.00346	0.00582
595142.434172121.44	Offsite Residential	595142.43	4172121.44	0.02489	0.00406	0.00215	0.00366	0.00621
595082.434172141.44	Offsite Residential	595082.43	4172141.44	0.02338	0.00323	0.00181	0.00315	0.00504
595102.434172141.44	Offsite Residential	595102.43	4172141.44	0.02409	0.00345	0.00193	0.00333	0.00538
595122.434172141.44	Offsite Residential	595122.43	4172141.44	0.02495	0.00369	0.00206	0.00354	0.00575
595142.434172141.44	Offsite Residential	595142.43	4172141.44	0.02599	0.00395	0.00220	0.00376	0.00615
595082.434172161.44	Offsite Residential	595082.43	4172161.44	0.02455	0.00316	0.00181	0.00321	0.00497
595102.434172161.44	Offsite Residential	595102.43	4172161.44	0.02530	0.00335	0.00195	0.00339	0.00530
595122.434172161.44	Offsite Residential	595122.43	4172161.44	0.02608	0.00357	0.00209	0.00359	0.00566
595142.434172161.44	Offsite Residential	595142.43	4172161.44	0.02705	0.00383	0.00225	0.00381	0.00608
595082.434172181.44	Offsite Residential	595082.43	4172181.44	0.02586	0.00308	0.00180	0.00324	0.00488
595102.434172181.44	Offsite Residential	595102.43	4172181.44	0.02656	0.00326	0.00195	0.00342	0.00521
595122.434172181.44	Offsite Residential	595122.43	4172181.44	0.02733	0.00347	0.00212	0.00362	0.00559
595142.434172181.44	Offsite Residential	595142.43	4172181.44	0.02821	0.00371	0.00230	0.00385	0.00601
595062.434172201.44	Offsite Residential	595062.43	4172201.44	0.02663	0.00285	0.00162	0.00311	0.00447
595082.434172201.44	Offsite Residential	595082.43	4172201.44	0.02734	0.00300	0.00176	0.00327	0.00476
595102.434172201.44	Offsite Residential	595102.43	4172201.44	0.02808	0.00318	0.00193	0.00345	0.00511
595122.434172201.44	Offsite Residential	595122.43	4172201.44	0.02881	0.00337	0.00212	0.00364	0.00549
595142.434172201.44	Offsite Residential	595142.43	4172201.44	0.02961	0.00359	0.00232	0.00386	0.00591
595162.434172201.44	Offsite Residential	595162.43	4172201.44	0.03050	0.00385	0.00255	0.00412	0.00640
595062.434172221.44	Offsite Residential	595062.43	4172221.44	0.02824	0.00281	0.00155	0.00314	0.00436
595082.434172221.44	Offsite Residential	595082.43	4172221.44	0.02905	0.00295	0.00170	0.00329	0.00465
595102.434172221.44	Offsite Residential	595102.43	4172221.44	0.02988	0.00310	0.00188	0.00347	0.00498
595122.434172221.44	Offsite Residential	595122.43	4172221.44	0.03063	0.00328	0.00208	0.00365	0.00536
595142.434172221.44	Offsite Residential	595142.43	4172221.44	0.03139	0.00347	0.00230	0.00386	0.00577
595162.434172221.44	Offsite Residential	595162.43	4172221.44	0.03216	0.00370	0.00257	0.00410	0.00627
595062.434172241.44	Offsite Residential	595062.43	4172241.44	0.03005	0.00277	0.00147	0.00317	0.00424
595082.434172241.44	Offsite Residential	595082.43	4172241.44	0.03104	0.00291	0.00162	0.00333	0.00453
595102.434172241.44	Offsite Residential	595102.43	4172241.44	0.03199	0.00305	0.00179	0.00349	0.00484
595122.434172241.44	Offsite Residential	595122.43	4172241.44	0.03288	0.00321	0.00199	0.00368	0.00520
595142.434172241.44	Offsite Residential	595142.43	4172241.44	0.03379	0.00339	0.00224	0.00389	0.00563
595162.434172241.44	Offsite Residential	595162.43	4172241.44	0.03464	0.00360	0.00253	0.00413	0.00613
595062.434172261.44	Offsite Residential	595062.43	4172261.44	0.03203	0.00276	0.00137	0.00321	0.00413
595082.434172261.44	Offsite Residential	595082.43	4172261.44	0.03329	0.00290	0.00151	0.00337	0.00441
595102.434172261.44	Offsite Residential	595102.43	4172261.44	0.03439	0.00302	0.00167	0.00353	0.00469
595122.434172261.44	Offsite Residential	595122.43	4172261.44	0.03555	0.00317	0.00187	0.00371	0.00504
595142.434172261.44	Offsite Residential	595142.43	4172261.44	0.03674	0.00334	0.00211	0.00393	0.00545
595042.434172281.44	Offsite Residential	595042.43	4172281.44	0.03253	0.00263	0.00116	0.00309	0.00379

PM2.5 Analysis

Concatenated Receptor	Rec Type	X	Y	Phase 1 CSTN	Phase 1 Operation	Phase 2 CSTN	Full Operation	Phase 1 Operation + Phase 2 Construction
595062.434172281.44	Offsite Residential	595062.43	4172281.44	0.03405	0.00276	0.00126	0.00326	0.00402
595082.434172281.44	Offsite Residential	595082.43	4172281.44	0.03561	0.00290	0.00138	0.00342	0.00428
595102.434172281.44	Offsite Residential	595102.43	4172281.44	0.03700	0.00302	0.00152	0.00359	0.00454
595122.434172281.44	Offsite Residential	595122.43	4172281.44	0.03868	0.00318	0.00171	0.00379	0.00489
595142.434172281.44	Offsite Residential	595142.43	4172281.44	0.04021	0.00333	0.00193	0.00400	0.00526
595162.434172281.44	Offsite Residential	595162.43	4172281.44	0.04163	0.00350	0.00220	0.00422	0.00570
595042.434172301.44	Offsite Residential	595042.43	4172301.44	0.03422	0.00263	0.00106	0.00313	0.00369
595062.434172301.44	Offsite Residential	595062.43	4172301.44	0.03606	0.00278	0.00114	0.00331	0.00392
595082.434172301.44	Offsite Residential	595082.43	4172301.44	0.03791	0.00292	0.00124	0.00348	0.00416
595102.434172301.44	Offsite Residential	595102.43	4172301.44	0.03979	0.00306	0.00136	0.00366	0.00442
595122.434172301.44	Offsite Residential	595122.43	4172301.44	0.04187	0.00321	0.00152	0.00387	0.00473
595142.434172301.44	Offsite Residential	595142.43	4172301.44	0.04397	0.00337	0.00171	0.00409	0.00508
595162.434172301.44	Offsite Residential	595162.43	4172301.44	0.04609	0.00353	0.00194	0.00434	0.00547
595042.434172321.44	Offsite Residential	595042.43	4172321.44	0.03581	0.00265	0.00096	0.00317	0.00361
595062.434172321.44	Offsite Residential	595062.43	4172321.44	0.03798	0.00280	0.00103	0.00335	0.00383
595082.434172321.44	Offsite Residential	595082.43	4172321.44	0.03981	0.00293	0.00110	0.00351	0.00403
595102.434172321.44	Offsite Residential	595102.43	4172321.44	0.04249	0.00310	0.00120	0.00374	0.00430
595122.434172321.44	Offsite Residential	595122.43	4172321.44	0.04506	0.00327	0.00133	0.00396	0.00460
595142.434172321.44	Offsite Residential	595142.43	4172321.44	0.04787	0.00344	0.00148	0.00421	0.00492
595162.434172321.44	Offsite Residential	595162.43	4172321.44	0.05075	0.00362	0.00167	0.00448	0.00529
595022.434172341.44	Offsite Residential	595022.43	4172341.44	0.03486	0.00249	0.00084	0.00300	0.00333
595042.434172341.44	Offsite Residential	595042.43	4172341.44	0.03719	0.00265	0.00088	0.00319	0.00353
595062.434172341.44	Offsite Residential	595062.43	4172341.44	0.03967	0.00282	0.00093	0.00339	0.00375
595082.434172341.44	Offsite Residential	595082.43	4172341.44	0.04229	0.00299	0.00099	0.00360	0.00398
595102.434172341.44	Offsite Residential	595102.43	4172341.44	0.04509	0.00316	0.00106	0.00382	0.00422
595122.434172341.44	Offsite Residential	595122.43	4172341.44	0.04811	0.00334	0.00115	0.00405	0.00449
595142.434172341.44	Offsite Residential	595142.43	4172341.44	0.05160	0.00354	0.00126	0.00433	0.00480
595162.434172341.44	Offsite Residential	595162.43	4172341.44	0.05531	0.00374	0.00140	0.00462	0.00514
595509.24172311.1	Onsite Worker	595509.20	4172311.10	0.13512	0.01158	0.03853	0.01403	0.05011
595453.664172369.33	Onsite Worker	595453.66	4172369.33	0.18665	0.00747	0.03407	0.03140	0.04154
595568.334173021.18	Offsite Worker	595568.33	4173021.18	0.01360	0.00125	0.00117	0.00186	0.00242
5955154172097	Onsite Worker	595515.00	4172097.00	0.03108	0.04927	0.03631	0.01194	0.08558
595432.74172731.56	Onsite Worker	595432.70	4172731.56	0.27841	0.00660	0.00545	0.00878	0.01205
595271.594172931.11	Fenceline	595271.59	4172931.11	0.00676	0.00186	0.02134	0.00503	0.02320
595259.544172956.67	Fenceline	595259.54	4172956.67	0.00573	0.00153	0.02124	0.00369	0.02277
595229.534172979.48	Fenceline	595229.53	4172979.48	0.00457	0.00124	0.01001	0.00267	0.01125
595158.784172948.61	Fenceline	595158.78	4172948.61	0.00380	0.00121	0.00466	0.00240	0.00587
595424.364172061.47	Fenceline	595424.36	4172061.47	0.02420	0.01989	0.01186	0.00568	0.03175
595637.784172033.56	Fenceline	595637.78	4172033.56	0.01593	0.06808	0.01457	0.01298	0.08265
595497.984172569.45	Fenceline	595497.98	4172569.45	0.49971	0.02236	0.00329	0.02445	0.02565
595440.324172695.89	Fenceline	595440.32	4172695.89	0.39330	0.00771	0.00549	0.00980	0.01320
595531.74172736.24	Fenceline	595531.70	4172736.24	0.10479	0.00413	0.00303	0.00559	0.00716
595503.434172797.49	Fenceline	595503.43	4172797.49	0.06554	0.00318	0.00312	0.00474	0.00630
595293.614172706.67	Fenceline	595293.61	4172706.67	0.06977	0.00859	0.02514	0.04292	0.03373
595216.894172907.31	Fenceline	595216.89	4172907.31	0.00551	0.00304	0.02326	0.00665	0.02630

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*                    AERMOD  (          18081):  JD        CSTN     PHASE              1 PM2.5      10/23/2019
*                    AERMET  (          14134):     12:28:15
*                    MODELING OPTIONS   USED:    NonDFAUL CONC     FLAT     and       ELEV     FLGPOL    ALPHA     URBAN     LOW_WIND
*                    PLOT    FILE       OF       PERIOD   VALUES   AVERAGED ACROSS          0 YEARS     FOR       SOURCE    GROUP:    ALL
*                    FOR     A          TOTAL    OF             735 RECEPTORS.
*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
XY                   X       Y          AVERAGE  CONC     ZELEV    ZHILL    ZFLAG    AVE      GRP      NUM       HRS       NET       ID
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5955744171743	595574	4171743	0.00243	97.81	101.44	1.8	PERIOD	ALL	43872	
5955944171743	595594	4171743	0.00237	96.06	101.44	1.8	PERIOD	ALL	43872	
5956144171743	595614	4171743	0.00233	97.41	101.18	1.8	PERIOD	ALL	43872	
5956344171743	595634	4171743	0.00226	99.77	101.06	1.8	PERIOD	ALL	43872	
5956544171743	595654	4171743	0.00226	96.05	101.18	1.8	PERIOD	ALL	43872	
5956744171743	595674	4171743	0.00224	95.92	101.14	1.8	PERIOD	ALL	43872	
5956944171743	595694	4171743	0.00223	99.12	101.14	1.8	PERIOD	ALL	43872	
5955344171763	595534	4171763	0.00272	99.54	101.43	1.8	PERIOD	ALL	43872	
5955544171763	595554	4171763	0.00263	101.29	101.37	1.8	PERIOD	ALL	43872	
5955744171763	595574	4171763	0.00259	96.99	101.52	1.8	PERIOD	ALL	43872	
5955944171763	595594	4171763	0.00253	96.2	101.52	1.8	PERIOD	ALL	43872	
5956144171763	595614	4171763	0.00248	98.89	101.23	1.8	PERIOD	ALL	43872	
5956344171763	595634	4171763	0.00244	98.38	101.23	1.8	PERIOD	ALL	43872	
5956544171763	595654	4171763	0.00242	96.28	101.23	1.8	PERIOD	ALL	43872	
5956744171763	595674	4171763	0.00242	96.19	101.17	1.8	PERIOD	ALL	43872	
5956944171763	595694	4171763	0.00238	100.58	100.58	1.8	PERIOD	ALL	43872	
5957144171763	595714	4171763	0.0024	100.64	100.64	1.8	PERIOD	ALL	43872	
5957344171763	595734	4171763	0.0025	98.51	101.14	1.8	PERIOD	ALL	43872	
5957544171763	595754	4171763	0.00256	99.31	99.31	1.8	PERIOD	ALL	43872	
5955344171783	595534	4171783	0.0029	101.02	101.47	1.8	PERIOD	ALL	43872	
5955544171783	595554	4171783	0.00282	100.91	100.91	1.8	PERIOD	ALL	43872	
5955744171783	595574	4171783	0.00275	100.49	100.49	1.8	PERIOD	ALL	43872	
5955944171783	595594	4171783	0.00268	101.03	101.24	1.8	PERIOD	ALL	43872	
5956144171783	595614	4171783	0.00262	101.08	101.08	1.8	PERIOD	ALL	43872	
5956344171783	595634	4171783	0.00262	98.78	101.23	1.8	PERIOD	ALL	43872	
5956544171783	595654	4171783	0.00262	96.81	101.23	1.8	PERIOD	ALL	43872	
5956744171783	595674	4171783	0.00263	96.9	101.18	1.8	PERIOD	ALL	43872	
5956944171783	595694	4171783	0.00257	101.09	101.09	1.8	PERIOD	ALL	43872	
5957144171783	595714	4171783	0.00267	98.99	101.14	1.8	PERIOD	ALL	43872	
5957344171783	595734	4171783	0.00274	99.01	99.01	1.8	PERIOD	ALL	43872	
5957544171783	595754	4171783	0.00281	99.75	99.75	1.8	PERIOD	ALL	43872	
5957744171783	595774	4171783	0.00293	99.74	99.74	1.8	PERIOD	ALL	43872	
5955344171803	595534	4171803	0.00311	101.23	101.23	1.8	PERIOD	ALL	43872	
5955544171803	595554	4171803	0.00302	101.24	101.45	1.8	PERIOD	ALL	43872	
5955744171803	595574	4171803	0.00299	97.44	101.54	1.8	PERIOD	ALL	43872	
5955944171803	595594	4171803	0.00293	97.57	101.3	1.8	PERIOD	ALL	43872	
5956144171803	595614	4171803	0.00288	97.82	101.24	1.8	PERIOD	ALL	43872	
5956344171803	595634	4171803	0.00284	98.75	101.23	1.8	PERIOD	ALL	43872	
5956544171803	595654	4171803	0.00279	100.24	100.24	1.8	PERIOD	ALL	43872	
5956744171803	595674	4171803	0.00279	100.72	101.14	1.8	PERIOD	ALL	43872	
5956944171803	595694	4171803	0.00282	101.01	101.01	1.8	PERIOD	ALL	43872	
5957144171803	595714	4171803	0.00299	97.43	101.18	1.8	PERIOD	ALL	43872	
5957344171803	595734	4171803	0.00303	99.3	99.3	1.8	PERIOD	ALL	43872	
5957544171803	595754	4171803	0.00311	100.29	100.29	1.8	PERIOD	ALL	43872	
5955144171823	595514	4171823	0.00349	99.6	101.28	1.8	PERIOD	ALL	43872	
5955344171823	595534	4171823	0.00336	101.26	101.26	1.8	PERIOD	ALL	43872	
5955544171823	595554	4171823	0.00327	100.86	101.53	1.8	PERIOD	ALL	43872	
5955744171823	595574	4171823	0.00323	95.57	101.66	1.8	PERIOD	ALL	43872	
5955944171823	595594	4171823	0.00317	95.8	101.66	1.8	PERIOD	ALL	43872	
5956144171823	595614	4171823	0.00313	97.3	101.66	1.8	PERIOD	ALL	43872	
5956344171823	595634	4171823	0.00311	97.25	101.43	1.8	PERIOD	ALL	43872	
5956544171823	595654	4171823	0.00312	97.4	101.18	1.8	PERIOD	ALL	43872	
5956744171823	595674	4171823	0.00312	99	101.18	1.8	PERIOD	ALL	43872	
5956944171823	595694	4171823	0.00312	100.83	100.83	1.8	PERIOD	ALL	43872	
5957144171823	595714	4171823	0.00333	97.63	101.18	1.8	PERIOD	ALL	43872	
5957344171823	595734	4171823	0.00339	99.32	99.32	1.8	PERIOD	ALL	43872	
5957544171823	595754	4171823	0.00352	99.75	99.75	1.8	PERIOD	ALL	43872	
5955144171843	595514	4171843	0.00377	100.28	101.23	1.8	PERIOD	ALL	43872	
5955344171843	595534	4171843	0.00364	101.27	101.27	1.8	PERIOD	ALL	43872	
5955544171843	595554	4171843	0.00354	101.27	101.27	1.8	PERIOD	ALL	43872	
5955744171843	595574	4171843	0.00352	97.82	101.61	1.8	PERIOD	ALL	43872	
5955944171843	595594	4171843	0.00345	95.87	101.8	1.8	PERIOD	ALL	43872	
5956144171843	595614	4171843	0.00342	97.52	101.66	1.8	PERIOD	ALL	43872	
5956344171843	595634	4171843	0.00341	97.4	101.66	1.8	PERIOD	ALL	43872	
5956544171843	595654	4171843	0.00344	97.51	101.6	1.8	PERIOD	ALL	43872	
5956744171843	595674	4171843	0.0034	100.34	100.89	1.8	PERIOD	ALL	43872	
5956944171843	595694	4171843	0.0035	100.08	100.91	1.8	PERIOD	ALL	43872	
5957144171843	595714	4171843	0.0037	98.47	100.91	1.8	PERIOD	ALL	43872	
5957344171843	595734	4171843	0.00382	99.46	99.46	1.8	PERIOD	ALL	43872	

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5957544171843	595754	4171843	0.00401	99.53	99.53	1.8	PERIOD	ALL	43872				
5955144171863	595514	4171863	0.0041	100.93	100.93	1.8	PERIOD	ALL	43872				
5955344171863	595534	4171863	0.00397	101.26	101.26	1.8	PERIOD	ALL	43872				
5955544171863	595554	4171863	0.00385	101.28	101.28	1.8	PERIOD	ALL	43872				
5955744171863	595574	4171863	0.00376	101.38	101.38	1.8	PERIOD	ALL	43872				
5955944171863	595594	4171863	0.00369	101.46	101.46	1.8	PERIOD	ALL	43872				
5956144171863	595614	4171863	0.00364	101.55	101.55	1.8	PERIOD	ALL	43872				
5956344171863	595634	4171863	0.00368	100.2	101.6	1.8	PERIOD	ALL	43872				
5956544171863	595654	4171863	0.00383	97.64	101.68	1.8	PERIOD	ALL	43872				
5956744171863	595674	4171863	0.00377	100.92	100.92	1.8	PERIOD	ALL	43872				
5956944171863	595694	4171863	0.004	99.01	101.1	1.8	PERIOD	ALL	43872				
5957144171863	595714	4171863	0.00416	99.23	100.86	1.8	PERIOD	ALL	43872				
5957344171863	595734	4171863	0.00434	99.62	100.86	1.8	PERIOD	ALL	43872				
5957544171863	595754	4171863	0.00459	99.5	99.5	1.8	PERIOD	ALL	43872				
5957744171863	595774	4171863	0.00485	99.38	99.38	1.8	PERIOD	ALL	43872				
5957944171863	595794	4171863	0.00513	99.11	99.73	1.8	PERIOD	ALL	43872				
5958144171863	595814	4171863	0.0054	99.19	99.72	1.8	PERIOD	ALL	43872				
5955144171883	595514	4171883	0.00451	100.6	100.6	1.8	PERIOD	ALL	43872				
5955344171883	595534	4171883	0.00437	100.66	100.66	1.8	PERIOD	ALL	43872				
5955544171883	595554	4171883	0.00423	101.08	101.08	1.8	PERIOD	ALL	43872				
5955744171883	595574	4171883	0.00412	101.55	101.55	1.8	PERIOD	ALL	43872				
5955944171883	595594	4171883	0.00406	101.55	101.55	1.8	PERIOD	ALL	43872				
5956144171883	595614	4171883	0.00402	101.64	101.64	1.8	PERIOD	ALL	43872				
5956344171883	595634	4171883	0.00404	101.55	101.55	1.8	PERIOD	ALL	43872				
5956544171883	595654	4171883	0.00417	100.36	101.37	1.8	PERIOD	ALL	43872				
5956744171883	595674	4171883	0.00426	100.97	100.97	1.8	PERIOD	ALL	43872				
5956944171883	595694	4171883	0.00455	99.19	100.88	1.8	PERIOD	ALL	43872				
5957144171883	595714	4171883	0.00479	98.97	100.86	1.8	PERIOD	ALL	43872				
5957344171883	595734	4171883	0.00503	99.35	99.35	1.8	PERIOD	ALL	43872				
5957544171883	595754	4171883	0.0053	99.53	99.53	1.8	PERIOD	ALL	43872				
5957744171883	595774	4171883	0.00561	99.4	99.4	1.8	PERIOD	ALL	43872				
5957944171883	595794	4171883	0.0059	99.66	99.66	1.8	PERIOD	ALL	43872				
5958144171883	595814	4171883	0.00625	99.07	99.07	1.8	PERIOD	ALL	43872				
5955144171903	595514	4171903	0.00497	101.04	101.04	1.8	PERIOD	ALL	43872				
5955344171903	595534	4171903	0.0048	101.38	101.38	1.8	PERIOD	ALL	43872				
5955544171903	595554	4171903	0.00467	101.3	101.3	1.8	PERIOD	ALL	43872				
5955744171903	595574	4171903	0.00459	100.94	100.94	1.8	PERIOD	ALL	43872				
5955944171903	595594	4171903	0.00453	101.02	101.02	1.8	PERIOD	ALL	43872				
5956144171903	595614	4171903	0.00452	101.05	101.05	1.8	PERIOD	ALL	43872				
5956344171903	595634	4171903	0.00455	101.56	101.56	1.8	PERIOD	ALL	43872				
5956544171903	595654	4171903	0.00469	100.97	100.97	1.8	PERIOD	ALL	43872				
5956744171903	595674	4171903	0.00488	100.79	100.79	1.8	PERIOD	ALL	43872				
5956944171903	595694	4171903	0.00516	100.26	100.26	1.8	PERIOD	ALL	43872				
5957144171903	595714	4171903	0.00568	97.48	100.71	1.8	PERIOD	ALL	43872				
5957344171903	595734	4171903	0.00586	99.33	99.33	1.8	PERIOD	ALL	43872				
5957544171903	595754	4171903	0.00625	98.86	99.66	1.8	PERIOD	ALL	43872				
5957744171903	595774	4171903	0.00662	98.61	98.61	1.8	PERIOD	ALL	43872				
5957944171903	595794	4171903	0.00697	98.62	98.62	1.8	PERIOD	ALL	43872				
5958144171903	595814	4171903	0.00728	98.89	98.89	1.8	PERIOD	ALL	43872				
5955344171923	595534	4171923	0.00536	101.21	101.21	1.8	PERIOD	ALL	43872				
5955544171923	595554	4171923	0.00522	101.31	101.31	1.8	PERIOD	ALL	43872				
5955744171923	595574	4171923	0.00512	101.25	101.25	1.8	PERIOD	ALL	43872				
5955944171923	595594	4171923	0.00509	101.13	101.13	1.8	PERIOD	ALL	43872				
5956144171923	595614	4171923	0.00512	100.94	100.94	1.8	PERIOD	ALL	43872				
5956344171923	595634	4171923	0.00523	100.89	100.89	1.8	PERIOD	ALL	43872				
5956544171923	595654	4171923	0.0054	100.97	100.97	1.8	PERIOD	ALL	43872				
5956744171923	595674	4171923	0.00567	100.68	100.68	1.8	PERIOD	ALL	43872				
5956944171923	595694	4171923	0.00599	100.64	100.64	1.8	PERIOD	ALL	43872				
5957544171923	595754	4171923	0.00746	98.09	100.5	1.8	PERIOD	ALL	43872				
5957744171923	595774	4171923	0.00783	98.36	98.36	1.8	PERIOD	ALL	43872				
5957944171923	595794	4171923	0.00818	98.59	98.59	1.8	PERIOD	ALL	43872				
5958144171923	595814	4171923	0.00852	98.67	98.67	1.8	PERIOD	ALL	43872				
5955344171943	595534	4171943	0.00605	100.87	100.87	1.8	PERIOD	ALL	43872				
5955544171943	595554	4171943	0.00589	101.23	101.23	1.8	PERIOD	ALL	43872				
5955744171943	595574	4171943	0.00581	101.2	101.2	1.8	PERIOD	ALL	43872				
5955944171943	595594	4171943	0.0058	101.19	101.19	1.8	PERIOD	ALL	43872				
5956144171943	595614	4171943	0.00588	101.09	101.09	1.8	PERIOD	ALL	43872				
5956344171943	595634	4171943	0.00605	100.97	100.97	1.8	PERIOD	ALL	43872				
5956544171943	595654	4171943	0.00632	100.92	100.92	1.8	PERIOD	ALL	43872				
5956744171943	595674	4171943	0.00669	100.66	100.66	1.8	PERIOD	ALL	43872				
5956944171943	595694	4171943	0.00713	100.51	100.51	1.8	PERIOD	ALL	43872				
5955544171963	595554	4171963	0.00677	100.97	100.97	1.8	PERIOD	ALL	43872				
5955744171963	595574	4171963	0.0067	101.11	101.11	1.8	PERIOD	ALL	43872				
5955944171963	595594	4171963	0.00675	101.05	101.05	1.8	PERIOD	ALL	43872				
5956144171963	595614	4171963	0.0069	101.02	101.02	1.8	PERIOD	ALL	43872				
5956344171963	595634	4171963	0.00718	100.84	100.84	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5956544171963	595654	4171963	0.00755	100.92	100.92	1.8	PERIOD	ALL	43872				
5956744171963	595674	4171963	0.00803	100.84	100.84	1.8	PERIOD	ALL	43872				
5955744171983	595574	4171983	0.00791	100.92	100.92	1.8	PERIOD	ALL	43872				
5950744172423	595074	4172423	0.04517	101.37	101.37	1.8	PERIOD	ALL	43872				
5950944172423	595094	4172423	0.04941	101.32	101.32	1.8	PERIOD	ALL	43872				
5950744172443	595074	4172443	0.04493	101.51	101.51	1.8	PERIOD	ALL	43872				
5950944172443	595094	4172443	0.04947	101.39	101.39	1.8	PERIOD	ALL	43872				
5951144172443	595114	4172443	0.05455	101.38	101.38	1.8	PERIOD	ALL	43872				
5951344172443	595134	4172443	0.06035	101.3	101.3	1.8	PERIOD	ALL	43872				
5950544172463	595054	4172463	0.04001	101.45	101.45	1.8	PERIOD	ALL	43872				
5950744172463	595074	4172463	0.0442	101.44	101.44	1.8	PERIOD	ALL	43872				
5950944172463	595094	4172463	0.04896	101.45	101.45	1.8	PERIOD	ALL	43872				
5951144172463	595114	4172463	0.05437	101.44	101.44	1.8	PERIOD	ALL	43872				
5950544172483	595054	4172483	0.03817	102.88	103.72	1.8	PERIOD	ALL	43872				
5950744172483	595074	4172483	0.04286	101.5	103.72	1.8	PERIOD	ALL	43872				
5950944172483	595094	4172483	0.04784	101.42	101.42	1.8	PERIOD	ALL	43872				
5951144172483	595114	4172483	0.05354	101.42	101.42	1.8	PERIOD	ALL	43872				
5950344172503	595034	4172503	0.03282	101.51	101.51	1.8	PERIOD	ALL	43872				
5950544172503	595054	4172503	0.03646	101.99	103.72	1.8	PERIOD	ALL	43872				
5950744172503	595074	4172503	0.04084	101.81	101.81	1.8	PERIOD	ALL	43872				
5950944172503	595094	4172503	0.04595	101.61	101.61	1.8	PERIOD	ALL	43872				
5951144172503	595114	4172503	0.05198	101.25	101.25	1.8	PERIOD	ALL	43872				
5950344172523	595034	4172523	0.03047	101.52	101.52	1.8	PERIOD	ALL	43872				
5950544172523	595054	4172523	0.03412	101.41	101.41	1.8	PERIOD	ALL	43872				
5950744172523	595074	4172523	0.03841	101.32	101.32	1.8	PERIOD	ALL	43872				
5950944172523	595094	4172523	0.04334	101.69	101.69	1.8	PERIOD	ALL	43872				
5950344172543	595034	4172543	0.02779	101.56	101.56	1.8	PERIOD	ALL	43872				
5950544172543	595054	4172543	0.03123	101.38	101.38	1.8	PERIOD	ALL	43872				
5950744172543	595074	4172543	0.03526	101.42	101.42	1.8	PERIOD	ALL	43872				
5950944172543	595094	4172543	0.04014	101.27	101.27	1.8	PERIOD	ALL	43872				
5950144172563	595014	4172563	0.02233	101.4	101.4	1.8	PERIOD	ALL	43872				
5950344172563	595034	4172563	0.02493	101.46	101.46	1.8	PERIOD	ALL	43872				
5950544172563	595054	4172563	0.02801	101.48	101.48	1.8	PERIOD	ALL	43872				
5950744172563	595074	4172563	0.03167	101.58	101.58	1.8	PERIOD	ALL	43872				
5950944172563	595094	4172563	0.03617	101.36	101.36	1.8	PERIOD	ALL	43872				
5950144172583	595014	4172583	0.01971	101.37	101.37	1.8	PERIOD	ALL	43872				
5950344172583	595034	4172583	0.02196	101.56	101.56	1.8	PERIOD	ALL	43872				
5950544172583	595054	4172583	0.02467	101.5	101.5	1.8	PERIOD	ALL	43872				
5950744172583	595074	4172583	0.02787	101.6	101.6	1.8	PERIOD	ALL	43872				
5950344172603	595034	4172603	0.01912	101.28	101.28	1.8	PERIOD	ALL	43872				
5950544172603	595054	4172603	0.02138	101.45	101.45	1.8	PERIOD	ALL	43872				
5950744172603	595074	4172603	0.02412	101.45	101.45	1.8	PERIOD	ALL	43872				
5955344172643	595534	4172643	0.21517	100.66	100.66	1.8	PERIOD	ALL	43872				
5955544172643	595554	4172643	0.17874	100.68	100.68	1.8	PERIOD	ALL	43872				
5955744172643	595574	4172643	0.15076	100.98	100.98	1.8	PERIOD	ALL	43872				
5955344172663	595534	4172663	0.18759	100.7	100.7	1.8	PERIOD	ALL	43872				
5955544172663	595554	4172663	0.15747	100.77	100.77	1.8	PERIOD	ALL	43872				
5955744172663	595574	4172663	0.13421	100.96	100.96	1.8	PERIOD	ALL	43872				
5955344172683	595534	4172683	0.16195	100.64	100.64	1.8	PERIOD	ALL	43872				
5955544172683	595554	4172683	0.13748	100.72	100.72	1.8	PERIOD	ALL	43872				
5955744172683	595574	4172683	0.11853	100.77	100.77	1.8	PERIOD	ALL	43872				
5952944172743	595294	4172743	0.03072	99.98	99.98	1.8	PERIOD	ALL	43872				
5953144172743	595314	4172743	0.03981	100.38	100.38	1.8	PERIOD	ALL	43872				
5953344172743	595334	4172743	0.05857	100.45	100.45	1.8	PERIOD	ALL	43872				
5955344172743	595534	4172743	0.09727	100.34	100.34	1.8	PERIOD	ALL	43872				
5952944172763	595294	4172763	0.02312	99.71	99.71	1.8	PERIOD	ALL	43872				
5953144172763	595314	4172763	0.02919	100.29	100.29	1.8	PERIOD	ALL	43872				
5953344172763	595334	4172763	0.04013	100.28	100.28	1.8	PERIOD	ALL	43872				
5953544172763	595354	4172763	0.05814	99.74	99.74	1.8	PERIOD	ALL	43872				
5953744172763	595374	4172763	0.07886	100.4	100.4	1.8	PERIOD	ALL	43872				
5955344172763	595534	4172763	0.08083	100.36	100.36	1.8	PERIOD	ALL	43872				
5955544172763	595554	4172763	0.0733	100.48	100.48	1.8	PERIOD	ALL	43872				
5955744172763	595574	4172763	0.06686	100.45	100.45	1.8	PERIOD	ALL	43872				
5949344172783	594934	4172783	0.00365	101.4	101.4	1.8	PERIOD	ALL	43872				
5949544172783	594954	4172783	0.00382	102.11	102.11	1.8	PERIOD	ALL	43872				
5949744172783	594974	4172783	0.00401	102.15	102.15	1.8	PERIOD	ALL	43872				
5952744172783	595274	4172783	0.01551	99.65	99.65	1.8	PERIOD	ALL	43872				
5953544172783	595354	4172783	0.04092	100.44	100.44	1.8	PERIOD	ALL	43872				
5953744172783	595374	4172783	0.05396	100.72	100.72	1.8	PERIOD	ALL	43872				
5953944172783	595394	4172783	0.06944	100.71	100.71	1.8	PERIOD	ALL	43872				
5954144172783	595414	4172783	0.08432	100.6	100.6	1.8	PERIOD	ALL	43872				
5954344172783	595434	4172783	0.09102	100.41	100.41	1.8	PERIOD	ALL	43872				
5955144172783	595514	4172783	0.07292	100.26	100.26	1.8	PERIOD	ALL	43872				
5955344172783	595534	4172783	0.06739	100.31	100.31	1.8	PERIOD	ALL	43872				
5955544172783	595554	4172783	0.06224	100.43	100.43	1.8	PERIOD	ALL	43872				
5955744172783	595574	4172783	0.0577	100.28	100.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5955944172783	595594	4172783	0.05332	100.51	100.51	1.8	PERIOD	ALL	43872				
5956144172783	595614	4172783	0.04948	100.48	100.48	1.8	PERIOD	ALL	43872				
5956344172783	595634	4172783	0.04588	100.67	100.67	1.8	PERIOD	ALL	43872				
5948944172803	594894	4172803	0.00302	102.16	102.16	1.8	PERIOD	ALL	43872				
5949144172803	594914	4172803	0.00316	102.17	102.17	1.8	PERIOD	ALL	43872				
5949344172803	594934	4172803	0.00331	101.92	101.92	1.8	PERIOD	ALL	43872				
5949544172803	594954	4172803	0.00347	102.04	102.04	1.8	PERIOD	ALL	43872				
5949744172803	594974	4172803	0.00364	101.95	101.95	1.8	PERIOD	ALL	43872				
5952744172803	595274	4172803	0.0132	100.01	100.01	1.8	PERIOD	ALL	43872				
5952944172803	595294	4172803	0.01576	100.3	100.3	1.8	PERIOD	ALL	43872				
5953144172803	595314	4172803	0.01952	100.11	100.11	1.8	PERIOD	ALL	43872				
5953544172803	595354	4172803	0.03185	100.25	100.25	1.8	PERIOD	ALL	43872				
5953744172803	595374	4172803	0.04039	100.6	100.6	1.8	PERIOD	ALL	43872				
5953944172803	595394	4172803	0.05007	100.74	100.74	1.8	PERIOD	ALL	43872				
5954144172803	595414	4172803	0.05925	100.67	100.67	1.8	PERIOD	ALL	43872				
5954344172803	595434	4172803	0.06482	100.7	100.7	1.8	PERIOD	ALL	43872				
5954544172803	595454	4172803	0.06637	100.69	100.69	1.8	PERIOD	ALL	43872				
5954744172803	595474	4172803	0.0655	100.41	100.41	1.8	PERIOD	ALL	43872				
5955344172803	595534	4172803	0.05664	100.13	100.13	1.8	PERIOD	ALL	43872				
5955544172803	595554	4172803	0.05311	100.34	100.34	1.8	PERIOD	ALL	43872				
5955744172803	595574	4172803	0.04988	100.23	100.23	1.8	PERIOD	ALL	43872				
5955944172803	595594	4172803	0.0466	100.53	100.53	1.8	PERIOD	ALL	43872				
5956144172803	595614	4172803	0.04371	100.44	100.44	1.8	PERIOD	ALL	43872				
5956344172803	595634	4172803	0.04095	100.46	100.46	1.8	PERIOD	ALL	43872				
5956544172803	595654	4172803	0.03834	100.59	100.59	1.8	PERIOD	ALL	43872				
5956744172803	595674	4172803	0.03592	100.79	100.79	1.8	PERIOD	ALL	43872				
5948744172823	594874	4172823	0.00267	102.62	102.62	1.8	PERIOD	ALL	43872				
5948944172823	594894	4172823	0.00279	102.35	102.35	1.8	PERIOD	ALL	43872				
5949144172823	594914	4172823	0.00291	102.14	102.14	1.8	PERIOD	ALL	43872				
5949344172823	594934	4172823	0.00304	102.01	102.01	1.8	PERIOD	ALL	43872				
5949544172823	594954	4172823	0.00318	102.05	102.05	1.8	PERIOD	ALL	43872				
5952544172823	595254	4172823	0.00996	100.08	100.08	1.8	PERIOD	ALL	43872				
5952744172823	595274	4172823	0.01157	100.22	100.22	1.8	PERIOD	ALL	43872				
5952944172823	595294	4172823	0.01372	100.3	100.3	1.8	PERIOD	ALL	43872				
5953344172823	595334	4172823	0.02073	100	100	1.8	PERIOD	ALL	43872				
5953544172823	595354	4172823	0.0257	100.37	100.37	1.8	PERIOD	ALL	43872				
5953744172823	595374	4172823	0.03186	100.34	100.34	1.8	PERIOD	ALL	43872				
5953944172823	595394	4172823	0.03844	100.54	100.54	1.8	PERIOD	ALL	43872				
5954144172823	595414	4172823	0.04458	100.72	100.72	1.8	PERIOD	ALL	43872				
5954344172823	595434	4172823	0.0491	100.7	100.7	1.8	PERIOD	ALL	43872				
5954544172823	595454	4172823	0.0514	100.7	100.7	1.8	PERIOD	ALL	43872				
5954744172823	595474	4172823	0.05182	100.76	100.76	1.8	PERIOD	ALL	43872				
5954944172823	595494	4172823	0.05113	100.6	100.6	1.8	PERIOD	ALL	43872				
5955144172823	595514	4172823	0.04966	100.46	100.46	1.8	PERIOD	ALL	43872				
5955344172823	595534	4172823	0.04778	100.26	100.26	1.8	PERIOD	ALL	43872				
5955744172823	595574	4172823	0.04335	100.11	100.11	1.8	PERIOD	ALL	43872				
5955944172823	595594	4172823	0.04098	100.3	100.3	1.8	PERIOD	ALL	43872				
5956144172823	595614	4172823	0.03875	100.3	100.3	1.8	PERIOD	ALL	43872				
5956344172823	595634	4172823	0.03655	100.44	100.44	1.8	PERIOD	ALL	43872				
5956544172823	595654	4172823	0.0345	100.49	100.49	1.8	PERIOD	ALL	43872				
5956744172823	595674	4172823	0.03254	100.62	103.26	1.8	PERIOD	ALL	43872				
5948744172843	594874	4172843	0.00249	102.26	102.26	1.8	PERIOD	ALL	43872				
5948944172843	594894	4172843	0.00259	102.58	102.58	1.8	PERIOD	ALL	43872				
5949144172843	594914	4172843	0.0027	102.24	102.24	1.8	PERIOD	ALL	43872				
5949344172843	594934	4172843	0.00282	102.03	102.03	1.8	PERIOD	ALL	43872				
5949544172843	594954	4172843	0.00294	102.09	102.09	1.8	PERIOD	ALL	43872				
5952544172843	595254	4172843	0.00894	100.26	100.26	1.8	PERIOD	ALL	43872				
5952744172843	595274	4172843	0.01035	100.08	100.08	1.8	PERIOD	ALL	43872				
5952944172843	595294	4172843	0.01216	100.1	100.1	1.8	PERIOD	ALL	43872				
5953344172843	595334	4172843	0.0176	100.21	100.21	1.8	PERIOD	ALL	43872				
5953544172843	595354	4172843	0.0214	100.33	100.33	1.8	PERIOD	ALL	43872				
5953744172843	595374	4172843	0.02588	100.38	100.38	1.8	PERIOD	ALL	43872				
5953944172843	595394	4172843	0.03067	100.49	100.49	1.8	PERIOD	ALL	43872				
5954144172843	595414	4172843	0.03524	100.47	100.47	1.8	PERIOD	ALL	43872				
5954344172843	595434	4172843	0.03882	100.54	100.54	1.8	PERIOD	ALL	43872				
5954544172843	595454	4172843	0.04112	100.52	100.52	1.8	PERIOD	ALL	43872				
5954744172843	595474	4172843	0.04208	100.76	100.76	1.8	PERIOD	ALL	43872				
5954944172843	595494	4172843	0.04223	100.63	100.63	1.8	PERIOD	ALL	43872				
5955144172843	595514	4172843	0.04168	100.5	100.5	1.8	PERIOD	ALL	43872				
5955344172843	595534	4172843	0.04057	100.56	100.56	1.8	PERIOD	ALL	43872				
5955544172843	595554	4172843	0.03922	100.48	100.48	1.8	PERIOD	ALL	43872				
5955744172843	595574	4172843	0.03777	100.2	100.2	1.8	PERIOD	ALL	43872				
5956344172843	595634	4172843	0.0327	100.47	100.47	1.8	PERIOD	ALL	43872				
5956544172843	595654	4172843	0.03106	100.55	100.55	1.8	PERIOD	ALL	43872				
5956744172843	595674	4172843	0.02946	100.74	103.38	1.8	PERIOD	ALL	43872				
5948544172863	594854	4172863	0.00225	102.28	102.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5948744172863	594874	4172863	0.00234	102.02	102.02	1.8	PERIOD	ALL	43872				
5948944172863	594894	4172863	0.00242	102.5	102.5	1.8	PERIOD	ALL	43872				
5949144172863	594914	4172863	0.00252	102.54	102.54	1.8	PERIOD	ALL	43872				
5949344172863	594934	4172863	0.00263	102.11	102.11	1.8	PERIOD	ALL	43872				
5952344172863	595234	4172863	0.00716	100.45	100.45	1.8	PERIOD	ALL	43872				
5952544172863	595254	4172863	0.0081	100.52	100.52	1.8	PERIOD	ALL	43872				
5952744172863	595274	4172863	0.00928	100.51	100.51	1.8	PERIOD	ALL	43872				
5952944172863	595294	4172863	0.01089	99.89	99.89	1.8	PERIOD	ALL	43872				
5953144172863	595314	4172863	0.01285	99.89	99.89	1.8	PERIOD	ALL	43872				
5953344172863	595334	4172863	0.01527	100.11	100.11	1.8	PERIOD	ALL	43872				
5953544172863	595354	4172863	0.01819	100.36	100.36	1.8	PERIOD	ALL	43872				
5953744172863	595374	4172863	0.02163	100.26	100.26	1.8	PERIOD	ALL	43872				
5953944172863	595394	4172863	0.02519	100.54	100.54	1.8	PERIOD	ALL	43872				
5954144172863	595414	4172863	0.02868	100.48	100.48	1.8	PERIOD	ALL	43872				
5954344172863	595434	4172863	0.0316	100.43	100.43	1.8	PERIOD	ALL	43872				
5954544172863	595454	4172863	0.03377	100.19	100.19	1.8	PERIOD	ALL	43872				
5954744172863	595474	4172863	0.03497	100.32	100.32	1.8	PERIOD	ALL	43872				
5954944172863	595494	4172863	0.03547	100.36	100.36	1.8	PERIOD	ALL	43872				
5955144172863	595514	4172863	0.03536	100.45	100.45	1.8	PERIOD	ALL	43872				
5955344172863	595534	4172863	0.03479	100.66	100.66	1.8	PERIOD	ALL	43872				
5955544172863	595554	4172863	0.03399	100.59	100.59	1.8	PERIOD	ALL	43872				
5955744172863	595574	4172863	0.03311	100.11	100.11	1.8	PERIOD	ALL	43872				
5955944172863	595594	4172863	0.03198	99.98	99.98	1.8	PERIOD	ALL	43872				
5956144172863	595614	4172863	0.03079	99.8	99.8	1.8	PERIOD	ALL	43872				
5948544172883	594854	4172883	0.00212	102.58	102.58	1.8	PERIOD	ALL	43872				
5948744172883	594874	4172883	0.00219	102.6	102.6	1.8	PERIOD	ALL	43872				
5948944172883	594894	4172883	0.00228	102.69	102.69	1.8	PERIOD	ALL	43872				
5949144172883	594914	4172883	0.00237	102.66	102.66	1.8	PERIOD	ALL	43872				
5952344172883	595234	4172883	0.00659	100.47	100.47	1.8	PERIOD	ALL	43872				
5952544172883	595254	4172883	0.00741	100.54	100.54	1.8	PERIOD	ALL	43872				
5952744172883	595274	4172883	0.00844	100.54	100.54	1.8	PERIOD	ALL	43872				
5952944172883	595294	4172883	0.00976	100.2	100.2	1.8	PERIOD	ALL	43872				
5953144172883	595314	4172883	0.01136	100.36	100.36	1.8	PERIOD	ALL	43872				
5953344172883	595334	4172883	0.0134	100.08	100.08	1.8	PERIOD	ALL	43872				
5953744172883	595374	4172883	0.0185	99.88	99.88	1.8	PERIOD	ALL	43872				
5953944172883	595394	4172883	0.02123	100.28	100.28	1.8	PERIOD	ALL	43872				
5954144172883	595414	4172883	0.02395	100.34	100.34	1.8	PERIOD	ALL	43872				
5954344172883	595434	4172883	0.02639	100.04	100.04	1.8	PERIOD	ALL	43872				
5954544172883	595454	4172883	0.02818	100.23	100.23	1.8	PERIOD	ALL	43872				
5954744172883	595474	4172883	0.02943	100.21	100.21	1.8	PERIOD	ALL	43872				
5954944172883	595494	4172883	0.0301	100.31	100.31	1.8	PERIOD	ALL	43872				
5955144172883	595514	4172883	0.03037	100.17	100.17	1.8	PERIOD	ALL	43872				
5955344172883	595534	4172883	0.03018	100.31	100.31	1.8	PERIOD	ALL	43872				
5955544172883	595554	4172883	0.02977	100.2	100.2	1.8	PERIOD	ALL	43872				
5955744172883	595574	4172883	0.02918	99.94	99.94	1.8	PERIOD	ALL	43872				
5955944172883	595594	4172883	0.02832	100.18	100.18	1.8	PERIOD	ALL	43872				
5956144172883	595614	4172883	0.02738	100.32	100.32	1.8	PERIOD	ALL	43872				
5956344172883	595634	4172883	0.0264	100.41	100.41	1.8	PERIOD	ALL	43872				
5956544172883	595654	4172883	0.0254	100.41	103.37	1.8	PERIOD	ALL	43872				
5948544172903	594854	4172903	0.002	102.65	102.65	1.8	PERIOD	ALL	43872				
5948744172903	594874	4172903	0.00207	102.65	102.65	1.8	PERIOD	ALL	43872				
5948944172903	594894	4172903	0.00215	102.74	102.74	1.8	PERIOD	ALL	43872				
5949144172903	594914	4172903	0.00223	102.69	102.69	1.8	PERIOD	ALL	43872				
5952344172903	595234	4172903	0.0061	100.47	100.47	1.8	PERIOD	ALL	43872				
5952544172903	595254	4172903	0.00682	100.53	100.53	1.8	PERIOD	ALL	43872				
5952744172903	595274	4172903	0.00772	100.45	100.45	1.8	PERIOD	ALL	43872				
5952944172903	595294	4172903	0.00884	100.31	100.31	1.8	PERIOD	ALL	43872				
5953144172903	595314	4172903	0.01018	100.46	100.46	1.8	PERIOD	ALL	43872				
5953344172903	595334	4172903	0.01185	100.21	100.21	1.8	PERIOD	ALL	43872				
5953544172903	595354	4172903	0.01375	100.39	100.39	1.8	PERIOD	ALL	43872				
5953744172903	595374	4172903	0.01593	100.21	100.21	1.8	PERIOD	ALL	43872				
5954144172903	595414	4172903	0.02045	99.79	99.79	1.8	PERIOD	ALL	43872				
5954344172903	595434	4172903	0.02239	99.89	99.89	1.8	PERIOD	ALL	43872				
5954544172903	595454	4172903	0.02395	100.08	100.08	1.8	PERIOD	ALL	43872				
5954744172903	595474	4172903	0.0251	100.22	100.22	1.8	PERIOD	ALL	43872				
5954944172903	595494	4172903	0.02586	100.21	100.21	1.8	PERIOD	ALL	43872				
5955144172903	595514	4172903	0.02622	100.31	100.31	1.8	PERIOD	ALL	43872				
5955344172903	595534	4172903	0.02628	100.36	100.36	1.8	PERIOD	ALL	43872				
5955544172903	595554	4172903	0.02616	100.06	100.06	1.8	PERIOD	ALL	43872				
5955744172903	595574	4172903	0.02581	99.89	99.89	1.8	PERIOD	ALL	43872				
5955944172903	595594	4172903	0.02519	100.29	100.29	1.8	PERIOD	ALL	43872				
5956144172903	595614	4172903	0.02449	100.53	100.53	1.8	PERIOD	ALL	43872				
5956344172903	595634	4172903	0.02378	100.5	100.5	1.8	PERIOD	ALL	43872				
5948544172923	594854	4172923	0.0019	102.77	102.77	1.8	PERIOD	ALL	43872				
5948744172923	594874	4172923	0.00197	102.64	102.64	1.8	PERIOD	ALL	43872				
5948944172923	594894	4172923	0.00204	102.66	102.66	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5949144172923	594914	4172923	0.00212	102.49	102.49	1.8	PERIOD	ALL	43872				
5952544172923	595254	4172923	0.00631	100.4	100.4	1.8	PERIOD	ALL	43872				
5952744172923	595274	4172923	0.0071	100.38	100.38	1.8	PERIOD	ALL	43872				
5952944172923	595294	4172923	0.00804	100.46	100.46	1.8	PERIOD	ALL	43872				
5953144172923	595314	4172923	0.00919	100.49	100.49	1.8	PERIOD	ALL	43872				
5953344172923	595334	4172923	0.0106	100.2	100.2	1.8	PERIOD	ALL	43872				
5953544172923	595354	4172923	0.01215	100.48	100.48	1.8	PERIOD	ALL	43872				
5953744172923	595374	4172923	0.0139	100.49	100.49	1.8	PERIOD	ALL	43872				
5953944172923	595394	4172923	0.01575	100.39	100.39	1.8	PERIOD	ALL	43872				
5954144172923	595414	4172923	0.01758	100.14	100.14	1.8	PERIOD	ALL	43872				
5954744172923	595474	4172923	0.02172	99.91	99.91	1.8	PERIOD	ALL	43872				
5954944172923	595494	4172923	0.02242	100.23	100.23	1.8	PERIOD	ALL	43872				
5955144172923	595514	4172923	0.02287	100.34	100.34	1.8	PERIOD	ALL	43872				
5955344172923	595534	4172923	0.02305	100.43	100.43	1.8	PERIOD	ALL	43872				
5955544172923	595554	4172923	0.0231	100.04	100.04	1.8	PERIOD	ALL	43872				
5955744172923	595574	4172923	0.02289	100.11	100.11	1.8	PERIOD	ALL	43872				
5955944172923	595594	4172923	0.02251	100.3	100.3	1.8	PERIOD	ALL	43872				
5956144172923	595614	4172923	0.02208	100.19	100.19	1.8	PERIOD	ALL	43872				
5956344172923	595634	4172923	0.02151	100.4	103.39	1.8	PERIOD	ALL	43872				
5953144172943	595314	4172943	0.00837	100.39	100.39	1.8	PERIOD	ALL	43872				
5953344172943	595334	4172943	0.00953	100.45	100.45	1.8	PERIOD	ALL	43872				
5953544172943	595354	4172943	0.01086	100.45	100.45	1.8	PERIOD	ALL	43872				
5953744172943	595374	4172943	0.01231	100.46	100.46	1.8	PERIOD	ALL	43872				
5953944172943	595394	4172943	0.01385	100.23	100.23	1.8	PERIOD	ALL	43872				
5954144172943	595414	4172943	0.01534	100.25	100.25	1.8	PERIOD	ALL	43872				
5954344172943	595434	4172943	0.01673	100.18	100.18	1.8	PERIOD	ALL	43872				
5954544172943	595454	4172943	0.01793	100.13	100.13	1.8	PERIOD	ALL	43872				
5955144172943	595514	4172943	0.02015	100.03	100.03	1.8	PERIOD	ALL	43872				
5955344172943	595534	4172943	0.02041	100.11	100.11	1.8	PERIOD	ALL	43872				
5955544172943	595554	4172943	0.02051	100.06	100.06	1.8	PERIOD	ALL	43872				
5955744172943	595574	4172943	0.02039	100.35	100.35	1.8	PERIOD	ALL	43872				
5955944172943	595594	4172943	0.0202	100.3	100.3	1.8	PERIOD	ALL	43872				
5956144172943	595614	4172943	0.01991	100.17	100.17	1.8	PERIOD	ALL	43872				
5956344172943	595634	4172943	0.01949	100.44	103.44	1.8	PERIOD	ALL	43872				
5953144172963	595314	4172963	0.00764	100.56	100.56	1.8	PERIOD	ALL	43872				
5953344172963	595334	4172963	0.00866	100.25	100.25	1.8	PERIOD	ALL	43872				
5953544172963	595354	4172963	0.00978	100.32	100.32	1.8	PERIOD	ALL	43872				
5953744172963	595374	4172963	0.011	100.34	100.34	1.8	PERIOD	ALL	43872				
5953944172963	595394	4172963	0.01227	100.33	100.33	1.8	PERIOD	ALL	43872				
5954144172963	595414	4172963	0.01352	100.34	100.34	1.8	PERIOD	ALL	43872				
5954344172963	595434	4172963	0.01471	100.25	100.25	1.8	PERIOD	ALL	43872				
5954544172963	595454	4172963	0.01575	100.28	100.28	1.8	PERIOD	ALL	43872				
5954744172963	595474	4172963	0.0166	100.51	100.51	1.8	PERIOD	ALL	43872				
5954944172963	595494	4172963	0.01731	100.29	100.29	1.8	PERIOD	ALL	43872				
5955144172963	595514	4172963	0.01782	100.21	100.21	1.8	PERIOD	ALL	43872				
5955544172963	595554	4172963	0.0183	100.17	100.17	1.8	PERIOD	ALL	43872				
5955744172963	595574	4172963	0.0183	100.25	100.25	1.8	PERIOD	ALL	43872				
5955944172963	595594	4172963	0.0182	100.29	100.29	1.8	PERIOD	ALL	43872				
5956144172963	595614	4172963	0.01801	100.18	103.44	1.8	PERIOD	ALL	43872				
5953144172983	595314	4172983	0.00702	100.55	100.55	1.8	PERIOD	ALL	43872				
5953344172983	595334	4172983	0.0079	100.31	100.31	1.8	PERIOD	ALL	43872				
5953544172983	595354	4172983	0.00886	100.27	100.27	1.8	PERIOD	ALL	43872				
5953744172983	595374	4172983	0.0099	100.28	100.28	1.8	PERIOD	ALL	43872				
5953944172983	595394	4172983	0.01098	100.2	100.2	1.8	PERIOD	ALL	43872				
5954144172983	595414	4172983	0.01204	100.26	100.26	1.8	PERIOD	ALL	43872				
5954344172983	595434	4172983	0.01306	100.19	100.19	1.8	PERIOD	ALL	43872				
5954544172983	595454	4172983	0.01398	100.19	100.19	1.8	PERIOD	ALL	43872				
5954744172983	595474	4172983	0.01474	100.46	100.46	1.8	PERIOD	ALL	43872				
5954944172983	595494	4172983	0.01539	100.32	100.32	1.8	PERIOD	ALL	43872				
5955144172983	595514	4172983	0.01585	100.53	100.53	1.8	PERIOD	ALL	43872				
5955344172983	595534	4172983	0.01619	100.46	100.46	1.8	PERIOD	ALL	43872				
5955544172983	595554	4172983	0.0164	100.33	100.33	1.8	PERIOD	ALL	43872				
5955744172983	595574	4172983	0.01645	100.62	100.62	1.8	PERIOD	ALL	43872				
5955944172983	595594	4172983	0.01643	100.58	100.58	1.8	PERIOD	ALL	43872				
5956144172983	595614	4172983	0.01634	100.33	103.43	1.8	PERIOD	ALL	43872				
5953144173003	595314	4173003	0.0065	100.23	100.23	1.8	PERIOD	ALL	43872				
5953344173003	595334	4173003	0.00723	100.48	100.48	1.8	PERIOD	ALL	43872				
5953544173003	595354	4173003	0.00807	100.39	100.39	1.8	PERIOD	ALL	43872				
5953744173003	595374	4173003	0.00896	100.29	100.29	1.8	PERIOD	ALL	43872				
5953944173003	595394	4173003	0.00988	100.31	100.31	1.8	PERIOD	ALL	43872				
5954144173003	595414	4173003	0.0108	100.26	100.26	1.8	PERIOD	ALL	43872				
5954344173003	595434	4173003	0.01168	100.22	100.22	1.8	PERIOD	ALL	43872				
5954544173003	595454	4173003	0.01249	100.15	100.15	1.8	PERIOD	ALL	43872				
5954744173003	595474	4173003	0.01318	100.35	100.35	1.8	PERIOD	ALL	43872				
5954944173003	595494	4173003	0.01376	100.4	100.4	1.8	PERIOD	ALL	43872				
5955144173003	595514	4173003	0.01421	100.52	100.52	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5955344173003	595534	4173003	0.01455	100.5	100.5	1.8	PERIOD	ALL	43872				
5955544173003	595554	4173003	0.01478	100.45	100.45	1.8	PERIOD	ALL	43872				
5955744173003	595574	4173003	0.01487	100.8	100.8	1.8	PERIOD	ALL	43872				
5955944173003	595594	4173003	0.0149	100.73	100.73	1.8	PERIOD	ALL	43872				
5952944173023	595294	4173023	0.00542	100.68	100.68	1.8	PERIOD	ALL	43872				
5953144173023	595314	4173023	0.006	100.7	100.7	1.8	PERIOD	ALL	43872				
5953344173023	595334	4173023	0.00666	100.49	100.49	1.8	PERIOD	ALL	43872				
5953544173023	595354	4173023	0.00739	100.38	100.38	1.8	PERIOD	ALL	43872				
5953744173023	595374	4173023	0.00816	100.33	100.33	1.8	PERIOD	ALL	43872				
5953944173023	595394	4173023	0.00895	100.27	100.27	1.8	PERIOD	ALL	43872				
5954144173023	595414	4173023	0.00975	100.22	100.22	1.8	PERIOD	ALL	43872				
5954344173023	595434	4173023	0.01051	100.42	100.42	1.8	PERIOD	ALL	43872				
5954544173023	595454	4173023	0.01121	100.45	100.45	1.8	PERIOD	ALL	43872				
5954744173023	595474	4173023	0.01184	100.49	100.49	1.8	PERIOD	ALL	43872				
5954944173023	595494	4173023	0.01239	100.41	100.41	1.8	PERIOD	ALL	43872				
5955144173023	595514	4173023	0.01281	100.53	100.53	1.8	PERIOD	ALL	43872				
5955344173023	595534	4173023	0.01315	100.53	100.53	1.8	PERIOD	ALL	43872				
5955544173023	595554	4173023	0.01338	100.59	100.59	1.8	PERIOD	ALL	43872				
5955744173023	595574	4173023	0.01351	100.77	100.77	1.8	PERIOD	ALL	43872				
5955944173023	595594	4173023	0.01358	100.64	103.48	1.8	PERIOD	ALL	43872				
5952944173043	595294	4173043	0.00507	100.56	100.56	1.8	PERIOD	ALL	43872				
5953144173043	595314	4173043	0.00558	100.62	100.62	1.8	PERIOD	ALL	43872				
5953344173043	595334	4173043	0.00616	100.43	100.43	1.8	PERIOD	ALL	43872				
5953544173043	595354	4173043	0.00679	100.37	100.37	1.8	PERIOD	ALL	43872				
5953744173043	595374	4173043	0.00747	100.31	100.31	1.8	PERIOD	ALL	43872				
5953944173043	595394	4173043	0.00816	100.26	100.26	1.8	PERIOD	ALL	43872				
5954144173043	595414	4173043	0.00885	100.4	100.4	1.8	PERIOD	ALL	43872				
5954344173043	595434	4173043	0.00951	100.52	100.52	1.8	PERIOD	ALL	43872				
5954544173043	595454	4173043	0.01014	100.6	100.6	1.8	PERIOD	ALL	43872				
5954744173043	595474	4173043	0.0107	100.68	100.68	1.8	PERIOD	ALL	43872				
5954944173043	595494	4173043	0.0112	100.53	100.53	1.8	PERIOD	ALL	43872				
5955144173043	595514	4173043	0.0116	100.67	100.67	1.8	PERIOD	ALL	43872				
5955344173043	595534	4173043	0.01191	100.82	100.82	1.8	PERIOD	ALL	43872				
5955544173043	595554	4173043	0.01216	100.8	100.8	1.8	PERIOD	ALL	43872				
5955744173043	595574	4173043	0.01232	100.76	100.76	1.8	PERIOD	ALL	43872				
5952944173063	595294	4173063	0.00475	100.51	100.51	1.8	PERIOD	ALL	43872				
5953144173063	595314	4173063	0.00521	100.5	100.5	1.8	PERIOD	ALL	43872				
5953344173063	595334	4173063	0.00572	100.41	100.41	1.8	PERIOD	ALL	43872				
5953544173063	595354	4173063	0.00628	100.35	100.35	1.8	PERIOD	ALL	43872				
5953744173063	595374	4173063	0.00686	100.33	100.33	1.8	PERIOD	ALL	43872				
5953944173063	595394	4173063	0.00746	100.53	100.53	1.8	PERIOD	ALL	43872				
5954144173063	595414	4173063	0.00806	100.71	100.71	1.8	PERIOD	ALL	43872				
5954344173063	595434	4173063	0.00865	100.79	100.79	1.8	PERIOD	ALL	43872				
5954544173063	595454	4173063	0.00922	100.69	100.69	1.8	PERIOD	ALL	43872				
5954744173063	595474	4173063	0.00973	100.66	100.66	1.8	PERIOD	ALL	43872				
5954944173063	595494	4173063	0.01019	100.46	100.46	1.8	PERIOD	ALL	43872				
5955144173063	595514	4173063	0.01056	100.62	100.62	1.8	PERIOD	ALL	43872				
5955344173063	595534	4173063	0.01086	100.9	100.9	1.8	PERIOD	ALL	43872				
5955544173063	595554	4173063	0.0111	100.86	100.86	1.8	PERIOD	ALL	43872				
5955744173063	595574	4173063	0.01126	101.05	101.05	1.8	PERIOD	ALL	43872				
5953544173083	595354	4173083	0.00582	100.42	100.42	1.8	PERIOD	ALL	43872				
5953744173083	595374	4173083	0.00632	100.64	100.64	1.8	PERIOD	ALL	43872				
5953944173083	595394	4173083	0.00685	100.88	100.88	1.8	PERIOD	ALL	43872				
5954144173083	595414	4173083	0.00738	101.03	101.03	1.8	PERIOD	ALL	43872				
5954344173083	595434	4173083	0.00791	101.05	101.05	1.8	PERIOD	ALL	43872				
5954544173083	595454	4173083	0.00842	100.81	100.81	1.8	PERIOD	ALL	43872				
5954744173083	595474	4173083	0.00889	100.59	100.59	1.8	PERIOD	ALL	43872				
5954944173083	595494	4173083	0.00932	100	100	1.8	PERIOD	ALL	43872				
5955144173083	595514	4173083	0.00967	100.1	101.15	1.8	PERIOD	ALL	43872				
5955344173083	595534	4173083	0.00993	100.98	100.98	1.8	PERIOD	ALL	43872				
5955544173083	595554	4173083	0.01017	100.83	100.83	1.8	PERIOD	ALL	43872				
5955744173083	595574	4173083	0.01033	101.15	101.15	1.8	PERIOD	ALL	43872				
5953344173103	595334	4173103	0.00497	100.68	100.68	1.8	PERIOD	ALL	43872				
5953544173103	595354	4173103	0.0054	100.7	100.7	1.8	PERIOD	ALL	43872				
5953744173103	595374	4173103	0.00585	100.97	100.97	1.8	PERIOD	ALL	43872				
5953944173103	595394	4173103	0.00631	101.23	101.23	1.8	PERIOD	ALL	43872				
5954144173103	595414	4173103	0.00678	101.35	101.35	1.8	PERIOD	ALL	43872				
5954344173103	595434	4173103	0.00726	101.31	101.31	1.8	PERIOD	ALL	43872				
5954544173103	595454	4173103	0.00772	100.9	100.9	1.8	PERIOD	ALL	43872				
5954744173103	595474	4173103	0.00815	100.45	100.45	1.8	PERIOD	ALL	43872				
5954944173103	595494	4173103	0.00855	99.96	99.96	1.8	PERIOD	ALL	43872				
5955144173103	595514	4173103	0.00884	101.04	101.04	1.8	PERIOD	ALL	43872				
5953344173123	595334	4173123	0.00464	101.04	101.04	1.8	PERIOD	ALL	43872				
5953544173123	595354	4173123	0.00503	101.14	101.14	1.8	PERIOD	ALL	43872				
5953744173123	595374	4173123	0.00543	101.35	101.35	1.8	PERIOD	ALL	43872				
5953944173123	595394	4173123	0.00584	101.55	101.55	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
5954144173123	595414	4173123	0.00627	101.55	101.55	1.8	PERIOD	ALL	43872				
5954344173123	595434	4173123	0.00669	101.41	101.41	1.8	PERIOD	ALL	43872				
5954544173123	595454	4173123	0.00711	100.91	100.91	1.8	PERIOD	ALL	43872				
5954744173123	595474	4173123	0.00752	100.19	100.19	1.8	PERIOD	ALL	43872				
5954944173123	595494	4173123	0.00787	99.99	99.99	1.8	PERIOD	ALL	43872				
5955144173123	595514	4173123	0.00813	101.16	101.16	1.8	PERIOD	ALL	43872				
5953544173143	595354	4173143	0.0047	101.45	101.45	1.8	PERIOD	ALL	43872				
5953744173143	595374	4173143	0.00506	101.56	101.56	1.8	PERIOD	ALL	43872				
5953944173143	595394	4173143	0.00543	101.52	101.52	1.8	PERIOD	ALL	43872				
5954144173143	595414	4173143	0.00584	100.68	101.67	1.8	PERIOD	ALL	43872				
5954344173143	595434	4173143	0.00622	100.68	100.68	1.8	PERIOD	ALL	43872				
5954944173143	595494	4173143	0.00723	101.03	101.03	1.8	PERIOD	ALL	43872				
5953544173163	595354	4173163	0.00441	101.34	101.34	1.8	PERIOD	ALL	43872				
5953744173163	595374	4173163	0.00473	101.54	101.54	1.8	PERIOD	ALL	43872				
5953944173163	595394	4173163	0.00507	101.61	101.61	1.8	PERIOD	ALL	43872				
5954144173163	595414	4173163	0.00543	101.03	101.61	1.8	PERIOD	ALL	43872				
5954344173163	595434	4173163	0.00577	101.09	101.09	1.8	PERIOD	ALL	43872				
5953744173183	595374	4173183	0.00444	101.54	101.54	1.8	PERIOD	ALL	43872				
5953944173183	595394	4173183	0.00474	101.69	101.69	1.8	PERIOD	ALL	43872				
5954144173183	595414	4173183	0.00505	101.66	101.66	1.8	PERIOD	ALL	43872				
5954344173183	595434	4173183	0.00536	101.62	101.62	1.8	PERIOD	ALL	43872				
595203.124172931.43	595203.1	4172931.4	0.00481	100.67	100.67	0.5	PERIOD	ALL	43872				
595305.294173022.49	595305.3	4173022.5	0.00574	100.77	100.77	1.8	PERIOD	ALL	43872				
596059.854172738.92	596059.9	4172738.9	0.01504	99.91	99.91	0.5	PERIOD	ALL	43872				
595782.44171913.24	595782.4	4171913.2	0.00736	98.53	98.53	1.8	PERIOD	ALL	43872				
595790.494171877.76	595790.5	4171877.8	0.00562	99.65	99.65	1.8	PERIOD	ALL	43872				
595826.594171700.37	595826.6	4171700.4	0.00213	100.23	100.23	1.8	PERIOD	ALL	43872				
595857.854171568.4	595857.9	4171568.4	0.00133	100.14	100.14	1.8	PERIOD	ALL	43872				
595427.664172811.08	595427.7	4172811.1	0.05633	100.71	100.71	1.8	PERIOD	ALL	43872				
595616.964172890.78	595617	4172890.8	0.02608	100.4	100.4	1.8	PERIOD	ALL	43872				
595465.614172972.42	595465.6	4172972.4	0.01536	100.46	100.46	1.8	PERIOD	ALL	43872				
595413.934172953.11	595413.9	4172953.1	0.01437	100.29	100.29	1.8	PERIOD	ALL	43872				
595207.624172857.58	595207.6	4172857.6	0.00634	100.54	100.54	1.8	PERIOD	ALL	43872				
595229.354172793.73	595229.4	4172793.7	0.01017	100.13	100.13	1.8	PERIOD	ALL	43872				
595251.414172717.21	595251.4	4172717.2	0.02989	100.32	100.32	1.8	PERIOD	ALL	43872				
595276.164172654.64	595276.2	4172654.6	0.09906	100.2	100.2	1.8	PERIOD	ALL	43872				
595286.244171790.65	595286.2	4171790.7	0.00434	100.11	100.11	1.8	PERIOD	ALL	43872				
595306.244171790.65	595306.2	4171790.7	0.00419	100.26	100.26	1.8	PERIOD	ALL	43872				
595326.244171790.65	595326.2	4171790.7	0.00406	100.24	100.24	1.8	PERIOD	ALL	43872				
595266.244171810.65	595266.2	4171810.7	0.00493	100.36	100.36	1.8	PERIOD	ALL	43872				
595286.244171810.65	595286.2	4171810.7	0.00475	100.68	100.68	1.8	PERIOD	ALL	43872				
595306.244171810.65	595306.2	4171810.7	0.0046	99.97	99.97	1.8	PERIOD	ALL	43872				
595326.244171810.65	595326.2	4171810.7	0.00444	100.19	100.19	1.8	PERIOD	ALL	43872				
595246.244171830.65	595246.2	4171830.7	0.00564	100.59	100.59	1.8	PERIOD	ALL	43872				
595266.244171830.65	595266.2	4171830.7	0.00544	100.73	100.73	1.8	PERIOD	ALL	43872				
595286.244171830.65	595286.2	4171830.7	0.00525	100.65	100.65	1.8	PERIOD	ALL	43872				
595306.244171830.65	595306.2	4171830.7	0.00507	100.14	100.14	1.8	PERIOD	ALL	43872				
595326.244171830.65	595326.2	4171830.7	0.00489	100.04	100.04	1.8	PERIOD	ALL	43872				
595226.244171850.65	595226.2	4171850.7	0.00648	101.05	101.05	1.8	PERIOD	ALL	43872				
595246.244171850.65	595246.2	4171850.7	0.00628	100.34	100.34	1.8	PERIOD	ALL	43872				
595266.244171850.65	595266.2	4171850.7	0.00606	100.23	100.23	1.8	PERIOD	ALL	43872				
595286.244171850.65	595286.2	4171850.7	0.00584	100.17	100.17	1.8	PERIOD	ALL	43872				
595306.244171850.65	595306.2	4171850.7	0.00563	100.04	100.04	1.8	PERIOD	ALL	43872				
595326.244171850.65	595326.2	4171850.7	0.00542	99.91	99.91	1.8	PERIOD	ALL	43872				
595206.244171870.65	595206.2	4171870.7	0.00748	100.71	100.71	1.8	PERIOD	ALL	43872				
595226.244171870.65	595226.2	4171870.7	0.00726	100.49	100.49	1.8	PERIOD	ALL	43872				
595246.244171870.65	595246.2	4171870.7	0.00703	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.244171870.65	595266.2	4171870.7	0.00678	100.43	100.43	1.8	PERIOD	ALL	43872				
595286.244171870.65	595286.2	4171870.7	0.00653	100.24	100.24	1.8	PERIOD	ALL	43872				
595306.244171870.65	595306.2	4171870.7	0.00629	100.03	100.03	1.8	PERIOD	ALL	43872				
595186.244171890.65	595186.2	4171890.7	0.00862	100.62	100.62	1.8	PERIOD	ALL	43872				
595206.244171890.65	595206.2	4171890.7	0.0084	100.56	100.56	1.8	PERIOD	ALL	43872				
595226.244171890.65	595226.2	4171890.7	0.00816	100.56	100.56	1.8	PERIOD	ALL	43872				
595246.244171890.65	595246.2	4171890.7	0.00791	100.42	100.42	1.8	PERIOD	ALL	43872				
595266.244171890.65	595266.2	4171890.7	0.00764	100.37	100.37	1.8	PERIOD	ALL	43872				
595286.244171890.65	595286.2	4171890.7	0.00736	100.16	100.16	1.8	PERIOD	ALL	43872				
595306.244171890.65	595306.2	4171890.7	0.00708	99.95	99.95	1.8	PERIOD	ALL	43872				
595186.244171910.65	595186.2	4171910.7	0.00968	100.75	100.75	1.8	PERIOD	ALL	43872				
595206.244171910.65	595206.2	4171910.7	0.00946	100.77	100.77	1.8	PERIOD	ALL	43872				
595226.244171910.65	595226.2	4171910.7	0.00921	100.62	100.62	1.8	PERIOD	ALL	43872				
595246.244171910.65	595246.2	4171910.7	0.00895	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.244171910.65	595266.2	4171910.7	0.00867	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.244171910.65	595286.2	4171910.7	0.00835	100.18	100.18	1.8	PERIOD	ALL	43872				
595306.244171910.65	595306.2	4171910.7	0.00804	99.82	99.82	1.8	PERIOD	ALL	43872				
595166.244171930.65	595166.2	4171930.7	0.01105	100.92	100.92	1.8	PERIOD	ALL	43872				
595186.244171930.65	595186.2	4171930.7	0.01088	100.86	100.86	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595206.244171930.65	595206.2	4171930.7	0.01069	100.62	100.62	1.8	PERIOD	ALL	43872				
595226.244171930.65	595226.2	4171930.7	0.01045	100.67	100.67	1.8	PERIOD	ALL	43872				
595246.244171930.65	595246.2	4171930.7	0.0102	100.18	100.18	1.8	PERIOD	ALL	43872				
595266.244171930.65	595266.2	4171930.7	0.00989	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.244171930.65	595286.2	4171930.7	0.00956	100.02	100.02	1.8	PERIOD	ALL	43872				
595166.244171950.65	595166.2	4171950.7	0.01238	100.84	100.84	1.8	PERIOD	ALL	43872				
595186.244171950.65	595186.2	4171950.7	0.01225	100.89	100.89	1.8	PERIOD	ALL	43872				
595206.244171950.65	595206.2	4171950.7	0.01209	100.76	100.76	1.8	PERIOD	ALL	43872				
595226.244171950.65	595226.2	4171950.7	0.01187	100.9	100.9	1.8	PERIOD	ALL	43872				
595246.244171950.65	595246.2	4171950.7	0.01164	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.244171950.65	595266.2	4171950.7	0.01135	100.14	100.14	1.8	PERIOD	ALL	43872				
595286.244171950.65	595286.2	4171950.7	0.01102	99.77	107.32	1.8	PERIOD	ALL	43872				
595146.244171970.65	595146.2	4171970.7	0.01382	101.29	101.29	1.8	PERIOD	ALL	43872				
595166.244171970.65	595166.2	4171970.7	0.01381	101.33	101.33	1.8	PERIOD	ALL	43872				
595186.244171970.65	595186.2	4171970.7	0.01378	101.08	101.08	1.8	PERIOD	ALL	43872				
595206.244171970.65	595206.2	4171970.7	0.01369	100.9	100.9	1.8	PERIOD	ALL	43872				
595226.244171970.65	595226.2	4171970.7	0.01354	100.83	100.83	1.8	PERIOD	ALL	43872				
595246.244171970.65	595246.2	4171970.7	0.01337	100.1	106.99	1.8	PERIOD	ALL	43872				
595266.244171970.65	595266.2	4171970.7	0.0131	99.89	107.46	1.8	PERIOD	ALL	43872				
595146.244171990.65	595146.2	4171990.7	0.0153	101.35	101.35	1.8	PERIOD	ALL	43872				
595166.244171990.65	595166.2	4171990.7	0.01541	101.3	101.3	1.8	PERIOD	ALL	43872				
595186.244171990.65	595186.2	4171990.7	0.01548	101.06	101.06	1.8	PERIOD	ALL	43872				
595206.244171990.65	595206.2	4171990.7	0.01549	100.9	100.9	1.8	PERIOD	ALL	43872				
595852.664171825.33	595852.7	4171825.3	0.00455	99.74	99.74	1.8	PERIOD	ALL	43872				
595852.664171845.33	595852.7	4171845.3	0.00519	99.78	99.78	1.8	PERIOD	ALL	43872				
595852.664171865.33	595852.7	4171865.3	0.00595	99.69	99.69	1.8	PERIOD	ALL	43872				
595872.664171865.33	595872.7	4171865.3	0.00618	99.79	99.79	1.8	PERIOD	ALL	43872				
595892.664171865.33	595892.7	4171865.3	0.0064	99.86	99.86	1.8	PERIOD	ALL	43872				
595832.664171885.33	595832.7	4171885.3	0.00661	99.37	99.37	1.8	PERIOD	ALL	43872				
595852.664171885.33	595852.7	4171885.3	0.00687	99.45	99.45	1.8	PERIOD	ALL	43872				
595872.664171885.33	595872.7	4171885.3	0.00711	99.52	99.52	1.8	PERIOD	ALL	43872				
595892.664171885.33	595892.7	4171885.3	0.00733	99.54	99.54	1.8	PERIOD	ALL	43872				
595832.664171905.33	595832.7	4171905.3	0.00767	99.29	99.29	1.8	PERIOD	ALL	43872				
595852.664171905.33	595852.7	4171905.3	0.00796	99.02	99.02	1.8	PERIOD	ALL	43872				
595872.664171905.33	595872.7	4171905.3	0.0082	98.96	98.96	1.8	PERIOD	ALL	43872				
595892.664171905.33	595892.7	4171905.3	0.0084	99.22	99.22	1.8	PERIOD	ALL	43872				
595912.664171905.33	595912.7	4171905.3	0.00853	99.73	99.73	1.8	PERIOD	ALL	43872				
595832.664171925.33	595832.7	4171925.3	0.0089	99.44	99.44	1.8	PERIOD	ALL	43872				
595852.664171925.33	595852.7	4171925.3	0.00918	99.31	99.31	1.8	PERIOD	ALL	43872				
595872.664171925.33	595872.7	4171925.3	0.0094	99.35	99.35	1.8	PERIOD	ALL	43872				
595892.664171925.33	595892.7	4171925.3	0.00959	99.25	99.25	1.8	PERIOD	ALL	43872				
595912.664171925.33	595912.7	4171925.3	0.00973	99.22	99.22	1.8	PERIOD	ALL	43872				
595852.664171945.33	595852.7	4171945.3	0.01066	98.82	99.52	1.8	PERIOD	ALL	43872				
595872.664171945.33	595872.7	4171945.3	0.01082	99.23	99.23	1.8	PERIOD	ALL	43872				
595892.664171945.33	595892.7	4171945.3	0.01092	99.54	99.54	1.8	PERIOD	ALL	43872				
595912.664171945.33	595912.7	4171945.3	0.01098	99.69	99.69	1.8	PERIOD	ALL	43872				
595932.664171945.33	595932.7	4171945.3	0.01102	99.72	99.72	1.8	PERIOD	ALL	43872				
595102.434172101.44	595102.4	4172101.4	0.02194	101.15	101.15	1.8	PERIOD	ALL	43872				
595122.434172101.44	595122.4	4172101.4	0.02275	101.08	101.08	1.8	PERIOD	ALL	43872				
595142.434172101.44	595142.4	4172101.4	0.0237	100.79	100.79	1.8	PERIOD	ALL	43872				
595102.434172121.44	595102.4	4172121.4	0.02303	101.3	101.3	1.8	PERIOD	ALL	43872				
595122.434172121.44	595122.4	4172121.4	0.02386	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.434172121.44	595142.4	4172121.4	0.02489	101.01	101.01	1.8	PERIOD	ALL	43872				
595082.434172141.44	595082.4	4172141.4	0.02338	101.31	101.31	1.8	PERIOD	ALL	43872				
595102.434172141.44	595102.4	4172141.4	0.02409	101.46	101.46	1.8	PERIOD	ALL	43872				
595122.434172141.44	595122.4	4172141.4	0.02495	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.434172141.44	595142.4	4172141.4	0.02599	101.11	101.11	1.8	PERIOD	ALL	43872				
595082.434172161.44	595082.4	4172161.4	0.02455	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.434172161.44	595102.4	4172161.4	0.0253	101.06	101.06	1.8	PERIOD	ALL	43872				
595122.434172161.44	595122.4	4172161.4	0.02608	101.27	101.27	1.8	PERIOD	ALL	43872				
595142.434172161.44	595142.4	4172161.4	0.02705	101.12	101.12	1.8	PERIOD	ALL	43872				
595082.434172181.44	595082.4	4172181.4	0.02586	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.434172181.44	595102.4	4172181.4	0.02656	101.21	101.21	1.8	PERIOD	ALL	43872				
595122.434172181.44	595122.4	4172181.4	0.02733	101.2	101.2	1.8	PERIOD	ALL	43872				
595142.434172181.44	595142.4	4172181.4	0.02821	101.14	101.14	1.8	PERIOD	ALL	43872				
595062.434172201.44	595062.4	4172201.4	0.02663	101.41	101.41	1.8	PERIOD	ALL	43872				
595082.434172201.44	595082.4	4172201.4	0.02734	101.39	101.39	1.8	PERIOD	ALL	43872				
595102.434172201.44	595102.4	4172201.4	0.02808	101.22	101.22	1.8	PERIOD	ALL	43872				
595122.434172201.44	595122.4	4172201.4	0.02881	101.25	101.25	1.8	PERIOD	ALL	43872				
595142.434172201.44	595142.4	4172201.4	0.02961	101.17	101.17	1.8	PERIOD	ALL	43872				
595162.434172201.44	595162.4	4172201.4	0.0305	101.1	101.1	1.8	PERIOD	ALL	43872				
595062.434172221.44	595062.4	4172221.4	0.02824	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.434172221.44	595082.4	4172221.4	0.02905	101.52	101.52	1.8	PERIOD	ALL	43872				
595102.434172221.44	595102.4	4172221.4	0.02988	101.27	101.27	1.8	PERIOD	ALL	43872				
595122.434172221.44	595122.4	4172221.4	0.03063	101.4	101.4	1.8	PERIOD	ALL	43872				
595142.434172221.44	595142.4	4172221.4	0.03139	101.38	101.38	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595162.434172221.44	595162.4	4172221.4	0.03216	101.37	101.37	1.8	PERIOD	ALL	43872				
595062.434172241.44	595062.4	4172241.4	0.03005	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.434172241.44	595082.4	4172241.4	0.03104	101.45	101.45	1.8	PERIOD	ALL	43872				
595102.434172241.44	595102.4	4172241.4	0.03199	101.45	101.45	1.8	PERIOD	ALL	43872				
595122.434172241.44	595122.4	4172241.4	0.03288	101.47	101.47	1.8	PERIOD	ALL	43872				
595142.434172241.44	595142.4	4172241.4	0.03379	101.2	101.2	1.8	PERIOD	ALL	43872				
595162.434172241.44	595162.4	4172241.4	0.03464	100.91	100.91	1.8	PERIOD	ALL	43872				
595062.434172261.44	595062.4	4172261.4	0.03203	101.37	101.37	1.8	PERIOD	ALL	43872				
595082.434172261.44	595082.4	4172261.4	0.03329	101.09	101.09	1.8	PERIOD	ALL	43872				
595102.434172261.44	595102.4	4172261.4	0.03439	101.67	101.67	1.8	PERIOD	ALL	43872				
595122.434172261.44	595122.4	4172261.4	0.03555	101.62	101.62	1.8	PERIOD	ALL	43872				
595142.434172261.44	595142.4	4172261.4	0.03674	101.14	101.14	1.8	PERIOD	ALL	43872				
595042.434172281.44	595042.4	4172281.4	0.03253	101.57	101.57	1.8	PERIOD	ALL	43872				
595062.434172281.44	595062.4	4172281.4	0.03405	101.39	101.39	1.8	PERIOD	ALL	43872				
595082.434172281.44	595082.4	4172281.4	0.03561	101.16	101.16	1.8	PERIOD	ALL	43872				
595102.434172281.44	595102.4	4172281.4	0.037	101.95	101.95	1.8	PERIOD	ALL	43872				
595122.434172281.44	595122.4	4172281.4	0.03868	101.19	101.19	1.8	PERIOD	ALL	43872				
595142.434172281.44	595142.4	4172281.4	0.04021	101.14	101.14	1.8	PERIOD	ALL	43872				
595162.434172281.44	595162.4	4172281.4	0.04163	101.26	101.26	1.8	PERIOD	ALL	43872				
595042.434172301.44	595042.4	4172301.4	0.03422	101.66	101.66	1.8	PERIOD	ALL	43872				
595062.434172301.44	595062.4	4172301.4	0.03606	101.4	101.4	1.8	PERIOD	ALL	43872				
595082.434172301.44	595082.4	4172301.4	0.03791	101.54	101.54	1.8	PERIOD	ALL	43872				
595102.434172301.44	595102.4	4172301.4	0.03979	101.89	101.89	1.8	PERIOD	ALL	43872				
595122.434172301.44	595122.4	4172301.4	0.04187	101.51	101.51	1.8	PERIOD	ALL	43872				
595142.434172301.44	595142.4	4172301.4	0.04397	101.33	101.33	1.8	PERIOD	ALL	43872				
595162.434172301.44	595162.4	4172301.4	0.04609	101.23	101.23	1.8	PERIOD	ALL	43872				
595042.434172321.44	595042.4	4172321.4	0.03581	101.52	101.52	1.8	PERIOD	ALL	43872				
595062.434172321.44	595062.4	4172321.4	0.03798	101.28	101.28	1.8	PERIOD	ALL	43872				
595082.434172321.44	595082.4	4172321.4	0.03981	102.38	102.38	1.8	PERIOD	ALL	43872				
595102.434172321.44	595102.4	4172321.4	0.04249	101.98	101.98	1.8	PERIOD	ALL	43872				
595122.434172321.44	595122.4	4172321.4	0.04506	101.8	101.8	1.8	PERIOD	ALL	43872				
595142.434172321.44	595142.4	4172321.4	0.04787	101.36	101.36	1.8	PERIOD	ALL	43872				
595162.434172321.44	595162.4	4172321.4	0.05075	101.33	101.33	1.8	PERIOD	ALL	43872				
595022.434172341.44	595022.4	4172341.4	0.03486	101.77	101.77	1.8	PERIOD	ALL	43872				
595042.434172341.44	595042.4	4172341.4	0.03719	101.48	101.48	1.8	PERIOD	ALL	43872				
595062.434172341.44	595062.4	4172341.4	0.03967	101.33	101.33	1.8	PERIOD	ALL	43872				
595082.434172341.44	595082.4	4172341.4	0.04229	101.46	101.46	1.8	PERIOD	ALL	43872				
595102.434172341.44	595102.4	4172341.4	0.04509	101.69	101.69	1.8	PERIOD	ALL	43872				
595122.434172341.44	595122.4	4172341.4	0.04811	101.89	101.89	1.8	PERIOD	ALL	43872				
595142.434172341.44	595142.4	4172341.4	0.0516	101.43	101.43	1.8	PERIOD	ALL	43872				
595162.434172341.44	595162.4	4172341.4	0.05531	101.34	101.34	1.8	PERIOD	ALL	43872				
595509.24172311.1	595509.2	4172311.1	0.13512	100.59	100.59	1.8	PERIOD	ALL	43872				
595453.664172369.33	595453.7	4172369.3	0.18665	100.43	100.43	1.8	PERIOD	ALL	43872				
595568.334173021.18	595568.3	4173021.2	0.0136	100.77	100.77	1.8	PERIOD	ALL	43872				
5955154172097	595515	4172097	0.03108	100.63	100.63	1.8	PERIOD	ALL	43872				
595432.74172731.56	595432.7	4172731.6	0.27841	100.37	100.37	1.8	PERIOD	ALL	43872				
595271.594172931.11	595271.6	4172931.1	0.00676	100.47	100.47	1.8	PERIOD	ALL	43872				
595259.544172956.67	595259.5	4172956.7	0.00573	100.53	100.53	1.8	PERIOD	ALL	43872				
595229.534172979.48	595229.5	4172979.5	0.00457	100.99	100.99	1.8	PERIOD	ALL	43872				
595158.784172948.61	595158.8	4172948.6	0.0038	100.21	100.21	1.8	PERIOD	ALL	43872				
595424.364172061.47	595424.4	4172061.5	0.0242	97.49	105.13	1.8	PERIOD	ALL	43872				
595637.784172033.56	595637.8	4172033.6	0.01593	100.72	100.72	1.8	PERIOD	ALL	43872				
595497.984172569.45	595498	4172569.5	0.49971	100.51	100.51	1.8	PERIOD	ALL	43872				
595440.324172695.89	595440.3	4172695.9	0.3933	100.43	100.43	1.8	PERIOD	ALL	43872				
595531.74172736.24	595531.7	4172736.2	0.10479	100.51	100.51	1.8	PERIOD	ALL	43872				
595503.434172797.49	595503.4	4172797.5	0.06554	99.9	99.9	1.8	PERIOD	ALL	43872				
595293.614172706.67	595293.6	4172706.7	0.06977	100.17	100.17	1.8	PERIOD	ALL	43872				
595216.894172907.31	595216.9	4172907.3	0.00551	100.39	100.39	1.8	PERIOD	ALL	43872				
**	CONCUNIT ug/m^3												
**	DEPUNIT g/m^2												

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*          AERMOD   (          18081):  JD         CSTN     PHASE              2 PM2.5    ########
*          AERMET   (          14134):     12:54:33
*          MODELING OPTIONS    USED:    NonDFAUL CONC     FLAT     and       ELEV     FLGPOL   ALPHA    URBAN    LOW_WIND
*          PLOT     FILE       OF       PERIOD   VALUES   AVERAGED ACROSS          0 YEARS    FOR      SOURCE   GROUP:   ALL
*          FOR      A          TOTAL    OF              735 RECEPTORS.
*          FORMAT:  (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
XY         X        Y          AVERAGE  CONC     ZELEV    ZHILL    ZFLAG    AVE      GRP      NUM      HRS      NET      ID
*
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595574417	595574	4171743	0.00029	97.81	101.44	1.8	PERIOD	ALL	43872				
595594417	595594	4171743	0.00028	96.06	101.44	1.8	PERIOD	ALL	43872				
595614417	595614	4171743	0.00028	97.41	101.18	1.8	PERIOD	ALL	43872				
595634417	595634	4171743	0.00028	99.77	101.06	1.8	PERIOD	ALL	43872				
595654417	595654	4171743	0.00029	96.05	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171743	0.00029	95.92	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171743	0.00031	99.12	101.14	1.8	PERIOD	ALL	43872				
595534417	595534	4171763	0.00034	99.54	101.43	1.8	PERIOD	ALL	43872				
595554417	595554	4171763	0.00032	101.29	101.37	1.8	PERIOD	ALL	43872				
595574417	595574	4171763	0.00032	96.99	101.52	1.8	PERIOD	ALL	43872				
595594417	595594	4171763	0.00031	96.2	101.52	1.8	PERIOD	ALL	43872				
595614417	595614	4171763	0.00031	98.89	101.23	1.8	PERIOD	ALL	43872				
595634417	595634	4171763	0.00032	98.38	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171763	0.00033	96.28	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171763	0.00034	96.19	101.17	1.8	PERIOD	ALL	43872				
595694417	595694	4171763	0.00034	100.58	100.58	1.8	PERIOD	ALL	43872				
595714417	595714	4171763	0.00036	100.64	100.64	1.8	PERIOD	ALL	43872				
595734417	595734	4171763	0.0004	98.51	101.14	1.8	PERIOD	ALL	43872				
595754417	595754	4171763	0.00042	99.31	99.31	1.8	PERIOD	ALL	43872				
595534417	595534	4171783	0.00037	101.02	101.47	1.8	PERIOD	ALL	43872				
595554417	595554	4171783	0.00036	100.91	100.91	1.8	PERIOD	ALL	43872				
595574417	595574	4171783	0.00035	100.49	100.49	1.8	PERIOD	ALL	43872				
595594417	595594	4171783	0.00035	101.03	101.24	1.8	PERIOD	ALL	43872				
595614417	595614	4171783	0.00035	101.08	101.08	1.8	PERIOD	ALL	43872				
595634417	595634	4171783	0.00036	98.78	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171783	0.00038	96.81	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171783	0.00039	96.9	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171783	0.0004	101.09	101.09	1.8	PERIOD	ALL	43872				
595714417	595714	4171783	0.00044	98.99	101.14	1.8	PERIOD	ALL	43872				
595734417	595734	4171783	0.00047	99.01	99.01	1.8	PERIOD	ALL	43872				
595754417	595754	4171783	0.00049	99.75	99.75	1.8	PERIOD	ALL	43872				
595774417	595774	4171783	0.00052	99.74	99.74	1.8	PERIOD	ALL	43872				
595534417	595534	4171803	0.00042	101.23	101.23	1.8	PERIOD	ALL	43872				
595554417	595554	4171803	0.0004	101.24	101.45	1.8	PERIOD	ALL	43872				
595574417	595574	4171803	0.00041	97.44	101.54	1.8	PERIOD	ALL	43872				
595594417	595594	4171803	0.00041	97.57	101.3	1.8	PERIOD	ALL	43872				
595614417	595614	4171803	0.00041	97.82	101.24	1.8	PERIOD	ALL	43872				
595634417	595634	4171803	0.00042	98.75	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171803	0.00043	100.24	100.24	1.8	PERIOD	ALL	43872				
595674417	595674	4171803	0.00045	100.72	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171803	0.00047	101.01	101.01	1.8	PERIOD	ALL	43872				
595714417	595714	4171803	0.00052	97.43	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171803	0.00056	99.3	99.3	1.8	PERIOD	ALL	43872				
595754417	595754	4171803	0.00058	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4171823	0.0005	99.6	101.28	1.8	PERIOD	ALL	43872				
595534417	595534	4171823	0.00047	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171823	0.00046	100.86	101.53	1.8	PERIOD	ALL	43872				
595574417	595574	4171823	0.00046	95.57	101.66	1.8	PERIOD	ALL	43872				
595594417	595594	4171823	0.00047	95.8	101.66	1.8	PERIOD	ALL	43872				
595614417	595614	4171823	0.00048	97.3	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171823	0.0005	97.25	101.43	1.8	PERIOD	ALL	43872				
595654417	595654	4171823	0.00052	97.4	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171823	0.00055	99	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171823	0.00057	100.83	100.83	1.8	PERIOD	ALL	43872				
595714417	595714	4171823	0.00063	97.63	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171823	0.00067	99.32	99.32	1.8	PERIOD	ALL	43872				
595754417	595754	4171823	0.0007	99.75	99.75	1.8	PERIOD	ALL	43872				
595514417	595514	4171843	0.00057	100.28	101.23	1.8	PERIOD	ALL	43872				
595534417	595534	4171843	0.00054	101.27	101.27	1.8	PERIOD	ALL	43872				
595554417	595554	4171843	0.00053	101.27	101.27	1.8	PERIOD	ALL	43872				
595574417	595574	4171843	0.00055	97.82	101.61	1.8	PERIOD	ALL	43872				
595594417	595594	4171843	0.00055	95.87	101.8	1.8	PERIOD	ALL	43872				
595614417	595614	4171843	0.00057	97.52	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171843	0.0006	97.4	101.66	1.8	PERIOD	ALL	43872				
595654417	595654	4171843	0.00063	97.51	101.6	1.8	PERIOD	ALL	43872				
595674417	595674	4171843	0.00065	100.34	100.89	1.8	PERIOD	ALL	43872				
595694417	595694	4171843	0.0007	100.08	100.91	1.8	PERIOD	ALL	43872				
595714417	595714	4171843	0.00077	98.47	100.91	1.8	PERIOD	ALL	43872				
595734417	595734	4171843	0.00082	99.46	99.46	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595754417	595754	4171843	0.00086	99.53	99.53	1.8	PERIOD	ALL	43872				
595514417	595514	4171863	0.00066	100.93	100.93	1.8	PERIOD	ALL	43872				
595534417	595534	4171863	0.00064	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171863	0.00062	101.28	101.28	1.8	PERIOD	ALL	43872				
595574417	595574	4171863	0.00062	101.38	101.38	1.8	PERIOD	ALL	43872				
595594417	595594	4171863	0.00063	101.46	101.46	1.8	PERIOD	ALL	43872				
595614417	595614	4171863	0.00066	101.55	101.55	1.8	PERIOD	ALL	43872				
595634417	595634	4171863	0.00071	100.2	101.6	1.8	PERIOD	ALL	43872				
595654417	595654	4171863	0.00078	97.64	101.68	1.8	PERIOD	ALL	43872				
595674417	595674	4171863	0.0008	100.92	100.92	1.8	PERIOD	ALL	43872				
595694417	595694	4171863	0.0009	99.01	101.1	1.8	PERIOD	ALL	43872				
595714417	595714	4171863	0.00096	99.23	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171863	0.001	99.62	100.86	1.8	PERIOD	ALL	43872				
595754417	595754	4171863	0.00106	99.5	99.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171863	0.0011	99.38	99.38	1.8	PERIOD	ALL	43872				
595794417	595794	4171863	0.00113	99.11	99.73	1.8	PERIOD	ALL	43872				
595814417	595814	4171863	0.00115	99.19	99.72	1.8	PERIOD	ALL	43872				
595514417	595514	4171883	0.0008	100.6	100.6	1.8	PERIOD	ALL	43872				
595534417	595534	4171883	0.00077	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4171883	0.00075	101.08	101.08	1.8	PERIOD	ALL	43872				
595574417	595574	4171883	0.00075	101.55	101.55	1.8	PERIOD	ALL	43872				
595594417	595594	4171883	0.00077	101.55	101.55	1.8	PERIOD	ALL	43872				
595614417	595614	4171883	0.00081	101.64	101.64	1.8	PERIOD	ALL	43872				
595634417	595634	4171883	0.00086	101.55	101.55	1.8	PERIOD	ALL	43872				
595654417	595654	4171883	0.00095	100.36	101.37	1.8	PERIOD	ALL	43872				
595674417	595674	4171883	0.00101	100.97	100.97	1.8	PERIOD	ALL	43872				
595694417	595694	4171883	0.00113	99.19	100.88	1.8	PERIOD	ALL	43872				
595714417	595714	4171883	0.0012	98.97	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171883	0.00126	99.35	99.35	1.8	PERIOD	ALL	43872				
595754417	595754	4171883	0.0013	99.53	99.53	1.8	PERIOD	ALL	43872				
595774417	595774	4171883	0.00134	99.4	99.4	1.8	PERIOD	ALL	43872				
595794417	595794	4171883	0.00135	99.66	99.66	1.8	PERIOD	ALL	43872				
595814417	595814	4171883	0.00137	99.07	99.07	1.8	PERIOD	ALL	43872				
595514417	595514	4171903	0.00097	101.04	101.04	1.8	PERIOD	ALL	43872				
595534417	595534	4171903	0.00094	101.38	101.38	1.8	PERIOD	ALL	43872				
595554417	595554	4171903	0.00093	101.3	101.3	1.8	PERIOD	ALL	43872				
595574417	595574	4171903	0.00095	100.94	100.94	1.8	PERIOD	ALL	43872				
595594417	595594	4171903	0.00099	101.02	101.02	1.8	PERIOD	ALL	43872				
595614417	595614	4171903	0.00104	101.05	101.05	1.8	PERIOD	ALL	43872				
595634417	595634	4171903	0.0011	101.56	101.56	1.8	PERIOD	ALL	43872				
595654417	595654	4171903	0.00121	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171903	0.0013	100.79	100.79	1.8	PERIOD	ALL	43872				
595694417	595694	4171903	0.00141	100.26	100.26	1.8	PERIOD	ALL	43872				
595714417	595714	4171903	0.00153	97.48	100.71	1.8	PERIOD	ALL	43872				
595734417	595734	4171903	0.00158	99.33	99.33	1.8	PERIOD	ALL	43872				
595754417	595754	4171903	0.00162	98.86	99.66	1.8	PERIOD	ALL	43872				
595774417	595774	4171903	0.00163	98.61	98.61	1.8	PERIOD	ALL	43872				
595794417	595794	4171903	0.00163	98.62	98.62	1.8	PERIOD	ALL	43872				
595814417	595814	4171903	0.00161	98.89	98.89	1.8	PERIOD	ALL	43872				
595534417	595534	4171923	0.00119	101.21	101.21	1.8	PERIOD	ALL	43872				
595554417	595554	4171923	0.00119	101.31	101.31	1.8	PERIOD	ALL	43872				
595574417	595574	4171923	0.00122	101.25	101.25	1.8	PERIOD	ALL	43872				
595594417	595594	4171923	0.00128	101.13	101.13	1.8	PERIOD	ALL	43872				
595614417	595614	4171923	0.00137	100.94	100.94	1.8	PERIOD	ALL	43872				
595634417	595634	4171923	0.00148	100.89	100.89	1.8	PERIOD	ALL	43872				
595654417	595654	4171923	0.00159	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171923	0.00172	100.68	100.68	1.8	PERIOD	ALL	43872				
595694417	595694	4171923	0.00182	100.64	100.64	1.8	PERIOD	ALL	43872				
595754417	595754	4171923	0.002	98.09	100.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171923	0.00198	98.36	98.36	1.8	PERIOD	ALL	43872				
595794417	595794	4171923	0.00195	98.59	98.59	1.8	PERIOD	ALL	43872				
595814417	595814	4171923	0.00189	98.67	98.67	1.8	PERIOD	ALL	43872				
595534417	595534	4171943	0.0016	100.87	100.87	1.8	PERIOD	ALL	43872				
595554417	595554	4171943	0.00159	101.23	101.23	1.8	PERIOD	ALL	43872				
595574417	595574	4171943	0.00164	101.2	101.2	1.8	PERIOD	ALL	43872				
595594417	595594	4171943	0.00173	101.19	101.19	1.8	PERIOD	ALL	43872				
595614417	595614	4171943	0.00186	101.09	101.09	1.8	PERIOD	ALL	43872				
595634417	595634	4171943	0.002	100.97	100.97	1.8	PERIOD	ALL	43872				
595654417	595654	4171943	0.00215	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171943	0.0023	100.66	100.66	1.8	PERIOD	ALL	43872				
595694417	595694	4171943	0.00241	100.51	100.51	1.8	PERIOD	ALL	43872				
595554417	595554	4171963	0.00227	100.97	100.97	1.8	PERIOD	ALL	43872				
595574417	595574	4171963	0.00233	101.11	101.11	1.8	PERIOD	ALL	43872				
595594417	595594	4171963	0.00246	101.05	101.05	1.8	PERIOD	ALL	43872				
595614417	595614	4171963	0.00263	101.02	101.02	1.8	PERIOD	ALL	43872				
595634417	595634	4171963	0.00282	100.84	100.84	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595654417	595654	4171963	0.00299	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171963	0.00314	100.84	100.84	1.8	PERIOD	ALL	43872				
595574417	595574	4171983	0.00354	100.92	100.92	1.8	PERIOD	ALL	43872				
595074417	595074	4172423	0.00079	101.37	101.37	1.8	PERIOD	ALL	43872				
595094417	595094	4172423	0.00079	101.32	101.32	1.8	PERIOD	ALL	43872				
595074417	595074	4172443	0.00082	101.51	101.51	1.8	PERIOD	ALL	43872				
595094417	595094	4172443	0.00082	101.39	101.39	1.8	PERIOD	ALL	43872				
595114417	595114	4172443	0.00081	101.38	101.38	1.8	PERIOD	ALL	43872				
595134417	595134	4172443	0.00081	101.3	101.3	1.8	PERIOD	ALL	43872				
595054417	595054	4172463	0.0009	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172463	0.00089	101.44	101.44	1.8	PERIOD	ALL	43872				
595094417	595094	4172463	0.00089	101.45	101.45	1.8	PERIOD	ALL	43872				
595114417	595114	4172463	0.00088	101.44	101.44	1.8	PERIOD	ALL	43872				
595054417	595054	4172483	0.00098	102.88	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172483	0.001	101.5	103.72	1.8	PERIOD	ALL	43872				
595094417	595094	4172483	0.001	101.42	101.42	1.8	PERIOD	ALL	43872				
595114417	595114	4172483	0.00098	101.42	101.42	1.8	PERIOD	ALL	43872				
595034417	595034	4172503	0.00112	101.51	101.51	1.8	PERIOD	ALL	43872				
595054417	595054	4172503	0.00113	101.99	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172503	0.00114	101.81	101.81	1.8	PERIOD	ALL	43872				
595094417	595094	4172503	0.00115	101.61	101.61	1.8	PERIOD	ALL	43872				
595114417	595114	4172503	0.00114	101.25	101.25	1.8	PERIOD	ALL	43872				
595034417	595034	4172523	0.00125	101.52	101.52	1.8	PERIOD	ALL	43872				
595054417	595054	4172523	0.00129	101.41	101.41	1.8	PERIOD	ALL	43872				
595074417	595074	4172523	0.00132	101.32	101.32	1.8	PERIOD	ALL	43872				
595094417	595094	4172523	0.00134	101.69	101.69	1.8	PERIOD	ALL	43872				
595034417	595034	4172543	0.0014	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172543	0.00146	101.38	101.38	1.8	PERIOD	ALL	43872				
595074417	595074	4172543	0.00152	101.42	101.42	1.8	PERIOD	ALL	43872				
595094417	595094	4172543	0.00158	101.27	101.27	1.8	PERIOD	ALL	43872				
595014417	595014	4172563	0.00145	101.4	101.4	1.8	PERIOD	ALL	43872				
595034417	595034	4172563	0.00154	101.46	101.46	1.8	PERIOD	ALL	43872				
595054417	595054	4172563	0.00163	101.48	101.48	1.8	PERIOD	ALL	43872				
595074417	595074	4172563	0.00173	101.58	101.58	1.8	PERIOD	ALL	43872				
595094417	595094	4172563	0.00183	101.36	101.36	1.8	PERIOD	ALL	43872				
595014417	595014	4172583	0.00156	101.37	101.37	1.8	PERIOD	ALL	43872				
595034417	595034	4172583	0.00167	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172583	0.00179	101.5	101.5	1.8	PERIOD	ALL	43872				
595074417	595074	4172583	0.00193	101.6	101.6	1.8	PERIOD	ALL	43872				
595034417	595034	4172603	0.00178	101.28	101.28	1.8	PERIOD	ALL	43872				
595054417	595054	4172603	0.00193	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172603	0.00211	101.45	101.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172643	0.00325	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172643	0.00306	100.68	100.68	1.8	PERIOD	ALL	43872				
595574417	595574	4172643	0.0029	100.98	100.98	1.8	PERIOD	ALL	43872				
595534417	595534	4172663	0.00324	100.7	100.7	1.8	PERIOD	ALL	43872				
595554417	595554	4172663	0.00302	100.77	100.77	1.8	PERIOD	ALL	43872				
595574417	595574	4172663	0.00284	100.96	100.96	1.8	PERIOD	ALL	43872				
595534417	595534	4172683	0.0032	100.64	100.64	1.8	PERIOD	ALL	43872				
595554417	595554	4172683	0.00297	100.72	100.72	1.8	PERIOD	ALL	43872				
595574417	595574	4172683	0.00278	100.77	100.77	1.8	PERIOD	ALL	43872				
595294417	595294	4172743	0.0218	99.98	99.98	1.8	PERIOD	ALL	43872				
595314417	595314	4172743	0.01682	100.38	100.38	1.8	PERIOD	ALL	43872				
595334417	595334	4172743	0.01342	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172743	0.00297	100.34	100.34	1.8	PERIOD	ALL	43872				
595294417	595294	4172763	0.01959	99.71	99.71	1.8	PERIOD	ALL	43872				
595314417	595314	4172763	0.01481	100.29	100.29	1.8	PERIOD	ALL	43872				
595334417	595334	4172763	0.01179	100.28	100.28	1.8	PERIOD	ALL	43872				
595354417	595354	4172763	0.0097	99.74	99.74	1.8	PERIOD	ALL	43872				
595374417	595374	4172763	0.00799	100.4	100.4	1.8	PERIOD	ALL	43872				
595534417	595534	4172763	0.00288	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172763	0.00265	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172763	0.00246	100.45	100.45	1.8	PERIOD	ALL	43872				
594934417	594934	4172783	0.00124	101.4	101.4	1.8	PERIOD	ALL	43872				
594954417	594954	4172783	0.00137	102.11	102.11	1.8	PERIOD	ALL	43872				
594974417	594974	4172783	0.00152	102.15	102.15	1.8	PERIOD	ALL	43872				
595274417	595274	4172783	0.02236	99.65	99.65	1.8	PERIOD	ALL	43872				
595354417	595354	4172783	0.0087	100.44	100.44	1.8	PERIOD	ALL	43872				
595374417	595374	4172783	0.0073	100.72	100.72	1.8	PERIOD	ALL	43872				
595394417	595394	4172783	0.00625	100.71	100.71	1.8	PERIOD	ALL	43872				
595414417	595414	4172783	0.00541	100.6	100.6	1.8	PERIOD	ALL	43872				
595434417	595434	4172783	0.00473	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4172783	0.00304	100.26	100.26	1.8	PERIOD	ALL	43872				
595534417	595534	4172783	0.00278	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172783	0.00256	100.43	100.43	1.8	PERIOD	ALL	43872				
595574417	595574	4172783	0.00237	100.28	100.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595594417	595594	4172783	0.0022	100.51	100.51	1.8	PERIOD	ALL	43872				
595614417	595614	4172783	0.00206	100.48	100.48	1.8	PERIOD	ALL	43872				
595634417	595634	4172783	0.00194	100.67	100.67	1.8	PERIOD	ALL	43872				
594894417	594894	4172803	0.00096	102.16	102.16	1.8	PERIOD	ALL	43872				
594914417	594914	4172803	0.00106	102.17	102.17	1.8	PERIOD	ALL	43872				
594934417	594934	4172803	0.00119	101.92	101.92	1.8	PERIOD	ALL	43872				
594954417	594954	4172803	0.00133	102.04	102.04	1.8	PERIOD	ALL	43872				
594974417	594974	4172803	0.00149	101.95	101.95	1.8	PERIOD	ALL	43872				
595274417	595274	4172803	0.01995	100.01	100.01	1.8	PERIOD	ALL	43872				
595294417	595294	4172803	0.0151	100.3	100.3	1.8	PERIOD	ALL	43872				
595314417	595314	4172803	0.01183	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172803	0.008	100.25	100.25	1.8	PERIOD	ALL	43872				
595374417	595374	4172803	0.00678	100.6	100.6	1.8	PERIOD	ALL	43872				
595394417	595394	4172803	0.00585	100.74	100.74	1.8	PERIOD	ALL	43872				
595414417	595414	4172803	0.00511	100.67	100.67	1.8	PERIOD	ALL	43872				
595434417	595434	4172803	0.00449	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172803	0.00399	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4172803	0.00357	100.41	100.41	1.8	PERIOD	ALL	43872				
595534417	595534	4172803	0.00268	100.13	100.13	1.8	PERIOD	ALL	43872				
595554417	595554	4172803	0.00246	100.34	100.34	1.8	PERIOD	ALL	43872				
595574417	595574	4172803	0.00228	100.23	100.23	1.8	PERIOD	ALL	43872				
595594417	595594	4172803	0.00212	100.53	100.53	1.8	PERIOD	ALL	43872				
595614417	595614	4172803	0.00198	100.44	100.44	1.8	PERIOD	ALL	43872				
595634417	595634	4172803	0.00186	100.46	100.46	1.8	PERIOD	ALL	43872				
595654417	595654	4172803	0.00175	100.59	100.59	1.8	PERIOD	ALL	43872				
595674417	595674	4172803	0.00165	100.79	100.79	1.8	PERIOD	ALL	43872				
594874417	594874	4172823	0.0008	102.62	102.62	1.8	PERIOD	ALL	43872				
594894417	594894	4172823	0.00089	102.35	102.35	1.8	PERIOD	ALL	43872				
594914417	594914	4172823	0.001	102.14	102.14	1.8	PERIOD	ALL	43872				
594934417	594934	4172823	0.00112	102.01	102.01	1.8	PERIOD	ALL	43872				
594954417	594954	4172823	0.00127	102.05	102.05	1.8	PERIOD	ALL	43872				
595254417	595254	4172823	0.02212	100.08	100.08	1.8	PERIOD	ALL	43872				
595274417	595274	4172823	0.0176	100.22	100.22	1.8	PERIOD	ALL	43872				
595294417	595294	4172823	0.01345	100.3	100.3	1.8	PERIOD	ALL	43872				
595334417	595334	4172823	0.00883	100	100	1.8	PERIOD	ALL	43872				
595354417	595354	4172823	0.00742	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4172823	0.00638	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172823	0.00553	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172823	0.00484	100.72	100.72	1.8	PERIOD	ALL	43872				
595434417	595434	4172823	0.00428	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172823	0.00381	100.7	100.7	1.8	PERIOD	ALL	43872				
595474417	595474	4172823	0.00341	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172823	0.00308	100.6	100.6	1.8	PERIOD	ALL	43872				
595514417	595514	4172823	0.0028	100.46	100.46	1.8	PERIOD	ALL	43872				
595534417	595534	4172823	0.00257	100.26	100.26	1.8	PERIOD	ALL	43872				
595574417	595574	4172823	0.00218	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172823	0.00203	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172823	0.0019	100.3	100.3	1.8	PERIOD	ALL	43872				
595634417	595634	4172823	0.00178	100.44	100.44	1.8	PERIOD	ALL	43872				
595654417	595654	4172823	0.00168	100.49	100.49	1.8	PERIOD	ALL	43872				
595674417	595674	4172823	0.00158	100.62	103.26	1.8	PERIOD	ALL	43872				
594874417	594874	4172843	0.00072	102.26	102.26	1.8	PERIOD	ALL	43872				
594894417	594894	4172843	0.00081	102.58	102.58	1.8	PERIOD	ALL	43872				
594914417	594914	4172843	0.00091	102.24	102.24	1.8	PERIOD	ALL	43872				
594934417	594934	4172843	0.00103	102.03	102.03	1.8	PERIOD	ALL	43872				
594954417	594954	4172843	0.00117	102.09	102.09	1.8	PERIOD	ALL	43872				
595254417	595254	4172843	0.02024	100.26	100.26	1.8	PERIOD	ALL	43872				
595274417	595274	4172843	0.01568	100.08	100.08	1.8	PERIOD	ALL	43872				
595294417	595294	4172843	0.01218	100.1	100.1	1.8	PERIOD	ALL	43872				
595334417	595334	4172843	0.00822	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172843	0.007	100.33	100.33	1.8	PERIOD	ALL	43872				
595374417	595374	4172843	0.00604	100.38	100.38	1.8	PERIOD	ALL	43872				
595394417	595394	4172843	0.00526	100.49	100.49	1.8	PERIOD	ALL	43872				
595414417	595414	4172843	0.00462	100.47	100.47	1.8	PERIOD	ALL	43872				
595434417	595434	4172843	0.00409	100.54	100.54	1.8	PERIOD	ALL	43872				
595454417	595454	4172843	0.00364	100.52	100.52	1.8	PERIOD	ALL	43872				
595474417	595474	4172843	0.00326	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172843	0.00294	100.63	100.63	1.8	PERIOD	ALL	43872				
595514417	595514	4172843	0.00268	100.5	100.5	1.8	PERIOD	ALL	43872				
595534417	595534	4172843	0.00245	100.56	100.56	1.8	PERIOD	ALL	43872				
595554417	595554	4172843	0.00225	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172843	0.00209	100.2	100.2	1.8	PERIOD	ALL	43872				
595634417	595634	4172843	0.0017	100.47	100.47	1.8	PERIOD	ALL	43872				
595654417	595654	4172843	0.0016	100.55	100.55	1.8	PERIOD	ALL	43872				
595674417	595674	4172843	0.00151	100.74	103.38	1.8	PERIOD	ALL	43872				
594854417	594854	4172863	0.00058	102.28	102.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
594874417	594874	4172863	0.00065	102.02	102.02	1.8	PERIOD	ALL	43872				
594894417	594894	4172863	0.00072	102.5	102.5	1.8	PERIOD	ALL	43872				
594914417	594914	4172863	0.00081	102.54	102.54	1.8	PERIOD	ALL	43872				
594934417	594934	4172863	0.00092	102.11	102.11	1.8	PERIOD	ALL	43872				
595234417	595234	4172863	0.02179	100.45	100.45	1.8	PERIOD	ALL	43872				
595254417	595254	4172863	0.01803	100.52	100.52	1.8	PERIOD	ALL	43872				
595274417	595274	4172863	0.01398	100.51	100.51	1.8	PERIOD	ALL	43872				
595294417	595294	4172863	0.01133	99.89	99.89	1.8	PERIOD	ALL	43872				
595314417	595314	4172863	0.00936	99.89	99.89	1.8	PERIOD	ALL	43872				
595334417	595334	4172863	0.00787	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172863	0.00671	100.36	100.36	1.8	PERIOD	ALL	43872				
595374417	595374	4172863	0.0058	100.26	100.26	1.8	PERIOD	ALL	43872				
595394417	595394	4172863	0.00503	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172863	0.00441	100.48	100.48	1.8	PERIOD	ALL	43872				
595434417	595434	4172863	0.00389	100.43	100.43	1.8	PERIOD	ALL	43872				
595454417	595454	4172863	0.00347	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172863	0.00311	100.32	100.32	1.8	PERIOD	ALL	43872				
595494417	595494	4172863	0.0028	100.36	100.36	1.8	PERIOD	ALL	43872				
595514417	595514	4172863	0.00254	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172863	0.00232	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172863	0.00214	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4172863	0.00198	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172863	0.00185	99.98	99.98	1.8	PERIOD	ALL	43872				
595614417	595614	4172863	0.00173	99.8	99.8	1.8	PERIOD	ALL	43872				
594854417	594854	4172883	0.00051	102.58	102.58	1.8	PERIOD	ALL	43872				
594874417	594874	4172883	0.00056	102.6	102.6	1.8	PERIOD	ALL	43872				
594894417	594894	4172883	0.00063	102.69	102.69	1.8	PERIOD	ALL	43872				
594914417	594914	4172883	0.0007	102.66	102.66	1.8	PERIOD	ALL	43872				
595234417	595234	4172883	0.02074	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172883	0.01655	100.54	100.54	1.8	PERIOD	ALL	43872				
595274417	595274	4172883	0.01328	100.54	100.54	1.8	PERIOD	ALL	43872				
595294417	595294	4172883	0.01103	100.2	100.2	1.8	PERIOD	ALL	43872				
595314417	595314	4172883	0.0092	100.36	100.36	1.8	PERIOD	ALL	43872				
595334417	595334	4172883	0.00775	100.08	100.08	1.8	PERIOD	ALL	43872				
595374417	595374	4172883	0.0056	99.88	99.88	1.8	PERIOD	ALL	43872				
595394417	595394	4172883	0.00481	100.28	100.28	1.8	PERIOD	ALL	43872				
595414417	595414	4172883	0.00419	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172883	0.0037	100.04	100.04	1.8	PERIOD	ALL	43872				
595454417	595454	4172883	0.00328	100.23	100.23	1.8	PERIOD	ALL	43872				
595474417	595474	4172883	0.00294	100.21	100.21	1.8	PERIOD	ALL	43872				
595494417	595494	4172883	0.00265	100.31	100.31	1.8	PERIOD	ALL	43872				
595514417	595514	4172883	0.00241	100.17	100.17	1.8	PERIOD	ALL	43872				
595534417	595534	4172883	0.0022	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172883	0.00203	100.2	100.2	1.8	PERIOD	ALL	43872				
595574417	595574	4172883	0.00188	99.94	99.94	1.8	PERIOD	ALL	43872				
595594417	595594	4172883	0.00175	100.18	100.18	1.8	PERIOD	ALL	43872				
595614417	595614	4172883	0.00163	100.32	100.32	1.8	PERIOD	ALL	43872				
595634417	595634	4172883	0.00153	100.41	100.41	1.8	PERIOD	ALL	43872				
595654417	595654	4172883	0.00145	100.41	103.37	1.8	PERIOD	ALL	43872				
594854417	594854	4172903	0.00044	102.65	102.65	1.8	PERIOD	ALL	43872				
594874417	594874	4172903	0.00048	102.65	102.65	1.8	PERIOD	ALL	43872				
594894417	594894	4172903	0.00054	102.74	102.74	1.8	PERIOD	ALL	43872				
594914417	594914	4172903	0.0006	102.69	102.69	1.8	PERIOD	ALL	43872				
595234417	595234	4172903	0.02063	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172903	0.01713	100.53	100.53	1.8	PERIOD	ALL	43872				
595274417	595274	4172903	0.01428	100.45	100.45	1.8	PERIOD	ALL	43872				
595294417	595294	4172903	0.01182	100.31	100.31	1.8	PERIOD	ALL	43872				
595314417	595314	4172903	0.00953	100.46	100.46	1.8	PERIOD	ALL	43872				
595334417	595334	4172903	0.00774	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172903	0.00636	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4172903	0.00535	100.21	100.21	1.8	PERIOD	ALL	43872				
595414417	595414	4172903	0.00396	99.79	99.79	1.8	PERIOD	ALL	43872				
595434417	595434	4172903	0.00347	99.89	99.89	1.8	PERIOD	ALL	43872				
595454417	595454	4172903	0.00308	100.08	100.08	1.8	PERIOD	ALL	43872				
595474417	595474	4172903	0.00275	100.22	100.22	1.8	PERIOD	ALL	43872				
595494417	595494	4172903	0.00248	100.21	100.21	1.8	PERIOD	ALL	43872				
595514417	595514	4172903	0.00226	100.31	100.31	1.8	PERIOD	ALL	43872				
595534417	595534	4172903	0.00207	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172903	0.00191	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172903	0.00177	99.89	99.89	1.8	PERIOD	ALL	43872				
595594417	595594	4172903	0.00165	100.29	100.29	1.8	PERIOD	ALL	43872				
595614417	595614	4172903	0.00154	100.53	100.53	1.8	PERIOD	ALL	43872				
595634417	595634	4172903	0.00145	100.5	100.5	1.8	PERIOD	ALL	43872				
594854417	594854	4172923	0.00037	102.77	102.77	1.8	PERIOD	ALL	43872				
594874417	594874	4172923	0.00041	102.64	102.64	1.8	PERIOD	ALL	43872				
594894417	594894	4172923	0.00045	102.66	102.66	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
594914417	594914	4172923	0.0005	102.49	102.49	1.8	PERIOD	ALL	43872				
595254417	595254	4172923	0.0227	100.4	100.4	1.8	PERIOD	ALL	43872				
595274417	595274	4172923	0.01822	100.38	100.38	1.8	PERIOD	ALL	43872				
595294417	595294	4172923	0.01348	100.46	100.46	1.8	PERIOD	ALL	43872				
595314417	595314	4172923	0.00986	100.49	100.49	1.8	PERIOD	ALL	43872				
595334417	595334	4172923	0.00758	100.2	100.2	1.8	PERIOD	ALL	43872				
595354417	595354	4172923	0.00605	100.48	100.48	1.8	PERIOD	ALL	43872				
595374417	595374	4172923	0.005	100.49	100.49	1.8	PERIOD	ALL	43872				
595394417	595394	4172923	0.00424	100.39	100.39	1.8	PERIOD	ALL	43872				
595414417	595414	4172923	0.00367	100.14	100.14	1.8	PERIOD	ALL	43872				
595474417	595474	4172923	0.00256	99.91	99.91	1.8	PERIOD	ALL	43872				
595494417	595494	4172923	0.00231	100.23	100.23	1.8	PERIOD	ALL	43872				
595514417	595514	4172923	0.00211	100.34	100.34	1.8	PERIOD	ALL	43872				
595534417	595534	4172923	0.00193	100.43	100.43	1.8	PERIOD	ALL	43872				
595554417	595554	4172923	0.00179	100.04	100.04	1.8	PERIOD	ALL	43872				
595574417	595574	4172923	0.00166	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172923	0.00155	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172923	0.00146	100.19	100.19	1.8	PERIOD	ALL	43872				
595634417	595634	4172923	0.00137	100.4	103.39	1.8	PERIOD	ALL	43872				
595314417	595314	4172943	0.00922	100.39	100.39	1.8	PERIOD	ALL	43872				
595334417	595334	4172943	0.00692	100.45	100.45	1.8	PERIOD	ALL	43872				
595354417	595354	4172943	0.00549	100.45	100.45	1.8	PERIOD	ALL	43872				
595374417	595374	4172943	0.00453	100.46	100.46	1.8	PERIOD	ALL	43872				
595394417	595394	4172943	0.00385	100.23	100.23	1.8	PERIOD	ALL	43872				
595414417	595414	4172943	0.00334	100.25	100.25	1.8	PERIOD	ALL	43872				
595434417	595434	4172943	0.00294	100.18	100.18	1.8	PERIOD	ALL	43872				
595454417	595454	4172943	0.00261	100.13	100.13	1.8	PERIOD	ALL	43872				
595514417	595514	4172943	0.00195	100.03	100.03	1.8	PERIOD	ALL	43872				
595534417	595534	4172943	0.0018	100.11	100.11	1.8	PERIOD	ALL	43872				
595554417	595554	4172943	0.00167	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172943	0.00155	100.35	100.35	1.8	PERIOD	ALL	43872				
595594417	595594	4172943	0.00145	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172943	0.00137	100.17	100.17	1.8	PERIOD	ALL	43872				
595634417	595634	4172943	0.00129	100.44	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172963	0.00753	100.56	100.56	1.8	PERIOD	ALL	43872				
595334417	595334	4172963	0.00587	100.25	100.25	1.8	PERIOD	ALL	43872				
595354417	595354	4172963	0.00475	100.32	100.32	1.8	PERIOD	ALL	43872				
595374417	595374	4172963	0.00397	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172963	0.00341	100.33	100.33	1.8	PERIOD	ALL	43872				
595414417	595414	4172963	0.00298	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172963	0.00264	100.25	100.25	1.8	PERIOD	ALL	43872				
595454417	595454	4172963	0.00237	100.28	100.28	1.8	PERIOD	ALL	43872				
595474417	595474	4172963	0.00214	100.51	100.51	1.8	PERIOD	ALL	43872				
595494417	595494	4172963	0.00195	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4172963	0.0018	100.21	100.21	1.8	PERIOD	ALL	43872				
595554417	595554	4172963	0.00155	100.17	100.17	1.8	PERIOD	ALL	43872				
595574417	595574	4172963	0.00144	100.25	100.25	1.8	PERIOD	ALL	43872				
595594417	595594	4172963	0.00136	100.29	100.29	1.8	PERIOD	ALL	43872				
595614417	595614	4172963	0.00128	100.18	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172983	0.00576	100.55	100.55	1.8	PERIOD	ALL	43872				
595334417	595334	4172983	0.00473	100.31	100.31	1.8	PERIOD	ALL	43872				
595354417	595354	4172983	0.00396	100.27	100.27	1.8	PERIOD	ALL	43872				
595374417	595374	4172983	0.0034	100.28	100.28	1.8	PERIOD	ALL	43872				
595394417	595394	4172983	0.00297	100.2	100.2	1.8	PERIOD	ALL	43872				
595414417	595414	4172983	0.00262	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4172983	0.00235	100.19	100.19	1.8	PERIOD	ALL	43872				
595454417	595454	4172983	0.00213	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172983	0.00194	100.46	100.46	1.8	PERIOD	ALL	43872				
595494417	595494	4172983	0.00178	100.32	100.32	1.8	PERIOD	ALL	43872				
595514417	595514	4172983	0.00164	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4172983	0.00153	100.46	100.46	1.8	PERIOD	ALL	43872				
595554417	595554	4172983	0.00143	100.33	100.33	1.8	PERIOD	ALL	43872				
595574417	595574	4172983	0.00134	100.62	100.62	1.8	PERIOD	ALL	43872				
595594417	595594	4172983	0.00126	100.58	100.58	1.8	PERIOD	ALL	43872				
595614417	595614	4172983	0.00119	100.33	103.43	1.8	PERIOD	ALL	43872				
595314417	595314	4173003	0.00436	100.23	100.23	1.8	PERIOD	ALL	43872				
595334417	595334	4173003	0.00375	100.48	100.48	1.8	PERIOD	ALL	43872				
595354417	595354	4173003	0.00326	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4173003	0.00287	100.29	100.29	1.8	PERIOD	ALL	43872				
595394417	595394	4173003	0.00255	100.31	100.31	1.8	PERIOD	ALL	43872				
595414417	595414	4173003	0.0023	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4173003	0.00208	100.22	100.22	1.8	PERIOD	ALL	43872				
595454417	595454	4173003	0.0019	100.15	100.15	1.8	PERIOD	ALL	43872				
595474417	595474	4173003	0.00175	100.35	100.35	1.8	PERIOD	ALL	43872				
595494417	595494	4173003	0.00161	100.4	100.4	1.8	PERIOD	ALL	43872				
595514417	595514	4173003	0.0015	100.52	100.52	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595534417	595534	4173003	0.0014	100.5	100.5	1.8	PERIOD	ALL	43872				
595554417	595554	4173003	0.00131	100.45	100.45	1.8	PERIOD	ALL	43872				
595574417	595574	4173003	0.00124	100.8	100.8	1.8	PERIOD	ALL	43872				
595594417	595594	4173003	0.00117	100.73	100.73	1.8	PERIOD	ALL	43872				
595294417	595294	4173023	0.0036	100.68	100.68	1.8	PERIOD	ALL	43872				
595314417	595314	4173023	0.00329	100.7	100.7	1.8	PERIOD	ALL	43872				
595334417	595334	4173023	0.00298	100.49	100.49	1.8	PERIOD	ALL	43872				
595354417	595354	4173023	0.00269	100.38	100.38	1.8	PERIOD	ALL	43872				
595374417	595374	4173023	0.00242	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173023	0.0022	100.27	100.27	1.8	PERIOD	ALL	43872				
595414417	595414	4173023	0.002	100.22	100.22	1.8	PERIOD	ALL	43872				
595434417	595434	4173023	0.00183	100.42	100.42	1.8	PERIOD	ALL	43872				
595454417	595454	4173023	0.00169	100.45	100.45	1.8	PERIOD	ALL	43872				
595474417	595474	4173023	0.00157	100.49	100.49	1.8	PERIOD	ALL	43872				
595494417	595494	4173023	0.00146	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4173023	0.00137	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4173023	0.00128	100.53	100.53	1.8	PERIOD	ALL	43872				
595554417	595554	4173023	0.00121	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4173023	0.00114	100.77	100.77	1.8	PERIOD	ALL	43872				
595594417	595594	4173023	0.00108	100.64	103.48	1.8	PERIOD	ALL	43872				
595294417	595294	4173043	0.00267	100.56	100.56	1.8	PERIOD	ALL	43872				
595314417	595314	4173043	0.00255	100.62	100.62	1.8	PERIOD	ALL	43872				
595334417	595334	4173043	0.0024	100.43	100.43	1.8	PERIOD	ALL	43872				
595354417	595354	4173043	0.00222	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4173043	0.00205	100.31	100.31	1.8	PERIOD	ALL	43872				
595394417	595394	4173043	0.00189	100.26	100.26	1.8	PERIOD	ALL	43872				
595414417	595414	4173043	0.00175	100.4	100.4	1.8	PERIOD	ALL	43872				
595434417	595434	4173043	0.00162	100.52	100.52	1.8	PERIOD	ALL	43872				
595454417	595454	4173043	0.00151	100.6	100.6	1.8	PERIOD	ALL	43872				
595474417	595474	4173043	0.00141	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173043	0.00132	100.53	100.53	1.8	PERIOD	ALL	43872				
595514417	595514	4173043	0.00124	100.67	100.67	1.8	PERIOD	ALL	43872				
595534417	595534	4173043	0.00117	100.82	100.82	1.8	PERIOD	ALL	43872				
595554417	595554	4173043	0.00111	100.8	100.8	1.8	PERIOD	ALL	43872				
595574417	595574	4173043	0.00105	100.76	100.76	1.8	PERIOD	ALL	43872				
595294417	595294	4173063	0.00205	100.51	100.51	1.8	PERIOD	ALL	43872				
595314417	595314	4173063	0.00202	100.5	100.5	1.8	PERIOD	ALL	43872				
595334417	595334	4173063	0.00194	100.41	100.41	1.8	PERIOD	ALL	43872				
595354417	595354	4173063	0.00185	100.35	100.35	1.8	PERIOD	ALL	43872				
595374417	595374	4173063	0.00174	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173063	0.00163	100.53	100.53	1.8	PERIOD	ALL	43872				
595414417	595414	4173063	0.00153	100.71	100.71	1.8	PERIOD	ALL	43872				
595434417	595434	4173063	0.00143	100.79	100.79	1.8	PERIOD	ALL	43872				
595454417	595454	4173063	0.00135	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4173063	0.00127	100.66	100.66	1.8	PERIOD	ALL	43872				
595494417	595494	4173063	0.0012	100.46	100.46	1.8	PERIOD	ALL	43872				
595514417	595514	4173063	0.00113	100.62	100.62	1.8	PERIOD	ALL	43872				
595534417	595534	4173063	0.00107	100.9	100.9	1.8	PERIOD	ALL	43872				
595554417	595554	4173063	0.00102	100.86	100.86	1.8	PERIOD	ALL	43872				
595574417	595574	4173063	0.00097	101.05	101.05	1.8	PERIOD	ALL	43872				
595354417	595354	4173083	0.00155	100.42	100.42	1.8	PERIOD	ALL	43872				
595374417	595374	4173083	0.00148	100.64	100.64	1.8	PERIOD	ALL	43872				
595394417	595394	4173083	0.00141	100.88	100.88	1.8	PERIOD	ALL	43872				
595414417	595414	4173083	0.00134	101.03	101.03	1.8	PERIOD	ALL	43872				
595434417	595434	4173083	0.00127	101.05	101.05	1.8	PERIOD	ALL	43872				
595454417	595454	4173083	0.00121	100.81	100.81	1.8	PERIOD	ALL	43872				
595474417	595474	4173083	0.00115	100.59	100.59	1.8	PERIOD	ALL	43872				
595494417	595494	4173083	0.00109	100	100	1.8	PERIOD	ALL	43872				
595514417	595514	4173083	0.00104	100.1	101.15	1.8	PERIOD	ALL	43872				
595534417	595534	4173083	0.00099	100.98	100.98	1.8	PERIOD	ALL	43872				
595554417	595554	4173083	0.00094	100.83	100.83	1.8	PERIOD	ALL	43872				
595574417	595574	4173083	0.0009	101.15	101.15	1.8	PERIOD	ALL	43872				
595334417	595334	4173103	0.00133	100.68	100.68	1.8	PERIOD	ALL	43872				
595354417	595354	4173103	0.0013	100.7	100.7	1.8	PERIOD	ALL	43872				
595374417	595374	4173103	0.00127	100.97	100.97	1.8	PERIOD	ALL	43872				
595394417	595394	4173103	0.00122	101.23	101.23	1.8	PERIOD	ALL	43872				
595414417	595414	4173103	0.00117	101.35	101.35	1.8	PERIOD	ALL	43872				
595434417	595434	4173103	0.00113	101.31	101.31	1.8	PERIOD	ALL	43872				
595454417	595454	4173103	0.00108	100.9	100.9	1.8	PERIOD	ALL	43872				
595474417	595474	4173103	0.00104	100.45	100.45	1.8	PERIOD	ALL	43872				
595494417	595494	4173103	0.001	99.96	99.96	1.8	PERIOD	ALL	43872				
595514417	595514	4173103	0.00095	101.04	101.04	1.8	PERIOD	ALL	43872				
595334417	595334	4173123	0.00112	101.04	101.04	1.8	PERIOD	ALL	43872				
595354417	595354	4173123	0.00111	101.14	101.14	1.8	PERIOD	ALL	43872				
595374417	595374	4173123	0.00109	101.35	101.35	1.8	PERIOD	ALL	43872				
595394417	595394	4173123	0.00106	101.55	101.55	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595414417	595414	4173123	0.00103	101.55	101.55	1.8	PERIOD	ALL	43872				
595434417	595434	4173123	0.001	101.41	101.41	1.8	PERIOD	ALL	43872				
595454417	595454	4173123	0.00097	100.91	100.91	1.8	PERIOD	ALL	43872				
595474417	595474	4173123	0.00094	100.19	100.19	1.8	PERIOD	ALL	43872				
595494417	595494	4173123	0.00091	99.99	99.99	1.8	PERIOD	ALL	43872				
595514417	595514	4173123	0.00087	101.16	101.16	1.8	PERIOD	ALL	43872				
595354417	595354	4173143	0.00095	101.45	101.45	1.8	PERIOD	ALL	43872				
595374417	595374	4173143	0.00095	101.56	101.56	1.8	PERIOD	ALL	43872				
595394417	595394	4173143	0.00093	101.52	101.52	1.8	PERIOD	ALL	43872				
595414417	595414	4173143	0.00092	100.68	101.67	1.8	PERIOD	ALL	43872				
595434417	595434	4173143	0.0009	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173143	0.00082	101.03	101.03	1.8	PERIOD	ALL	43872				
595354417	595354	4173163	0.00083	101.34	101.34	1.8	PERIOD	ALL	43872				
595374417	595374	4173163	0.00083	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173163	0.00082	101.61	101.61	1.8	PERIOD	ALL	43872				
595414417	595414	4173163	0.00082	101.03	101.61	1.8	PERIOD	ALL	43872				
595434417	595434	4173163	0.0008	101.09	101.09	1.8	PERIOD	ALL	43872				
595374417	595374	4173183	0.00073	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173183	0.00073	101.69	101.69	1.8	PERIOD	ALL	43872				
595414417	595414	4173183	0.00073	101.66	101.66	1.8	PERIOD	ALL	43872				
595434417	595434	4173183	0.00072	101.62	101.62	1.8	PERIOD	ALL	43872				
595203.12	595203.1	4172931	0.01899	100.67	100.67	0.5	PERIOD	ALL	43872				
595305.29	595305.3	4173022	0.00345	100.77	100.77	1.8	PERIOD	ALL	43872				
596059.85	596059.9	4172739	0.00082	99.91	99.91	0.5	PERIOD	ALL	43872				
595782.44	595782.4	4171913	0.0018	98.53	98.53	1.8	PERIOD	ALL	43872				
595790.49	595790.5	4171878	0.00128	99.65	99.65	1.8	PERIOD	ALL	43872				
595826.59	595826.6	4171700	0.00031	100.23	100.23	1.8	PERIOD	ALL	43872				
595857.85	595857.9	4171568	0.00015	100.14	100.14	1.8	PERIOD	ALL	43872				
595427.66	595427.7	4172811	0.00458	100.71	100.71	1.8	PERIOD	ALL	43872				
595616.96	595617	4172891	0.00158	100.4	100.4	1.8	PERIOD	ALL	43872				
595465.61	595465.6	4172972	0.00212	100.46	100.46	1.8	PERIOD	ALL	43872				
595413.93	595413.9	4172953	0.00316	100.29	100.29	1.8	PERIOD	ALL	43872				
595207.62	595207.6	4172858	0.01475	100.54	100.54	1.8	PERIOD	ALL	43872				
595229.35	595229.4	4172794	0.01514	100.13	100.13	1.8	PERIOD	ALL	43872				
595251.41	595251.4	4172717	0.01585	100.32	100.32	1.8	PERIOD	ALL	43872				
595276.16	595276.2	4172655	0.01879	100.2	100.2	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171791	0.00069	100.11	100.11	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171791	0.00066	100.26	100.26	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171791	0.00063	100.24	100.24	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171811	0.00082	100.36	100.36	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171811	0.00079	100.68	100.68	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171811	0.00077	99.97	99.97	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171811	0.00073	100.19	100.19	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171831	0.00098	100.59	100.59	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171831	0.00095	100.73	100.73	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171831	0.00092	100.65	100.65	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171831	0.00089	100.14	100.14	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171831	0.00086	100.04	100.04	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171851	0.00114	101.05	101.05	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171851	0.00113	100.34	100.34	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171851	0.00111	100.23	100.23	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171851	0.00108	100.17	100.17	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171851	0.00105	100.04	100.04	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171851	0.00101	99.91	99.91	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171871	0.00132	100.71	100.71	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171871	0.00132	100.49	100.49	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171871	0.00131	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171871	0.0013	100.43	100.43	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171871	0.00127	100.24	100.24	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171871	0.00124	100.03	100.03	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171891	0.00147	100.62	100.62	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171891	0.00149	100.56	100.56	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171891	0.00151	100.56	100.56	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171891	0.00151	100.42	100.42	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171891	0.00151	100.37	100.37	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171891	0.0015	100.16	100.16	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171891	0.00148	99.95	99.95	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171911	0.00163	100.75	100.75	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171911	0.00168	100.77	100.77	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171911	0.00171	100.62	100.62	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171911	0.00174	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171911	0.00176	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171911	0.00177	100.18	100.18	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171911	0.00177	99.82	99.82	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171931	0.00173	100.92	100.92	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171931	0.0018	100.86	100.86	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595206.24	595206.2	4171931	0.00187	100.62	100.62	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171931	0.00194	100.67	100.67	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171931	0.002	100.18	100.18	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171931	0.00205	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171931	0.00208	100.02	100.02	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171951	0.00187	100.84	100.84	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171951	0.00196	100.89	100.89	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171951	0.00206	100.76	100.76	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171951	0.00216	100.9	100.9	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171951	0.00226	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171951	0.00235	100.14	100.14	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171951	0.00244	99.77	107.32	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171971	0.00188	101.29	101.29	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171971	0.00199	101.33	101.33	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171971	0.00211	101.08	101.08	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171971	0.00224	100.9	100.9	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171971	0.00238	100.83	100.83	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171971	0.00253	100.1	106.99	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171971	0.00267	99.89	107.46	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171991	0.00196	101.35	101.35	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171991	0.00209	101.3	101.3	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171991	0.00223	101.06	101.06	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171991	0.00239	100.9	100.9	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171825	0.00086	99.74	99.74	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171845	0.00101	99.78	99.78	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171865	0.00118	99.69	99.69	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171865	0.00117	99.79	99.79	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171865	0.00116	99.86	99.86	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171885	0.00138	99.37	99.37	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171885	0.00137	99.45	99.45	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171885	0.00134	99.52	99.52	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171885	0.00132	99.54	99.54	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171905	0.00161	99.29	99.29	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171905	0.00158	99.02	99.02	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171905	0.00153	98.96	98.96	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171905	0.00148	99.22	99.22	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171905	0.00143	99.73	99.73	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171925	0.00187	99.44	99.44	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171925	0.0018	99.31	99.31	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171925	0.00173	99.35	99.35	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171925	0.00165	99.25	99.25	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171925	0.00158	99.22	99.22	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171945	0.00203	98.82	99.52	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171945	0.00193	99.23	99.23	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171945	0.00183	99.54	99.54	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171945	0.00174	99.69	99.69	1.8	PERIOD	ALL	43872				
595932.66	595932.7	4171945	0.00165	99.72	99.72	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172101	0.00189	101.15	101.15	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172101	0.002	101.08	101.08	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172101	0.00212	100.79	100.79	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172121	0.00191	101.3	101.3	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172121	0.00202	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172121	0.00215	101.01	101.01	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172141	0.00181	101.31	101.31	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172141	0.00193	101.46	101.46	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172141	0.00206	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172141	0.0022	101.11	101.11	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172161	0.00181	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172161	0.00195	101.06	101.06	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172161	0.00209	101.27	101.27	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172161	0.00225	101.12	101.12	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172181	0.0018	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172181	0.00195	101.21	101.21	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172181	0.00212	101.2	101.2	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172181	0.0023	101.14	101.14	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172201	0.00162	101.41	101.41	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172201	0.00176	101.39	101.39	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172201	0.00193	101.22	101.22	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172201	0.00212	101.25	101.25	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172201	0.00232	101.17	101.17	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172201	0.00255	101.1	101.1	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172221	0.00155	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172221	0.0017	101.52	101.52	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172221	0.00188	101.27	101.27	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172221	0.00208	101.4	101.4	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172221	0.0023	101.38	101.38	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595162.43	595162.4	4172221	0.00257	101.37	101.37	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172241	0.00147	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172241	0.00162	101.45	101.45	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172241	0.00179	101.45	101.45	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172241	0.00199	101.47	101.47	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172241	0.00224	101.2	101.2	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172241	0.00253	100.91	100.91	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172261	0.00137	101.37	101.37	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172261	0.00151	101.09	101.09	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172261	0.00167	101.67	101.67	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172261	0.00187	101.62	101.62	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172261	0.00211	101.14	101.14	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172281	0.00116	101.57	101.57	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172281	0.00126	101.39	101.39	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172281	0.00138	101.16	101.16	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172281	0.00152	101.95	101.95	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172281	0.00171	101.19	101.19	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172281	0.00193	101.14	101.14	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172281	0.0022	101.26	101.26	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172301	0.00106	101.66	101.66	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172301	0.00114	101.4	101.4	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172301	0.00124	101.54	101.54	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172301	0.00136	101.89	101.89	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172301	0.00152	101.51	101.51	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172301	0.00171	101.33	101.33	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172301	0.00194	101.23	101.23	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172321	0.00096	101.52	101.52	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172321	0.00103	101.28	101.28	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172321	0.0011	102.38	102.38	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172321	0.0012	101.98	101.98	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172321	0.00133	101.8	101.8	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172321	0.00148	101.36	101.36	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172321	0.00167	101.33	101.33	1.8	PERIOD	ALL	43872				
595022.43	595022.4	4172341	0.00084	101.77	101.77	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172341	0.00088	101.48	101.48	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172341	0.00093	101.33	101.33	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172341	0.00099	101.46	101.46	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172341	0.00106	101.69	101.69	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172341	0.00115	101.89	101.89	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172341	0.00126	101.43	101.43	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172341	0.0014	101.34	101.34	1.8	PERIOD	ALL	43872				
595509.24	595509.2	4172311	0.03853	100.59	100.59	1.8	PERIOD	ALL	43872				
595453.66	595453.7	4172369	0.03407	100.43	100.43	1.8	PERIOD	ALL	43872				
595568.33	595568.3	4173021	0.00117	100.77	100.77	1.8	PERIOD	ALL	43872				
595515417	595515	4172097	0.03631	100.63	100.63	1.8	PERIOD	ALL	43872				
595432.74	595432.7	4172732	0.00545	100.37	100.37	1.8	PERIOD	ALL	43872				
595271.59	595271.6	4172931	0.02134	100.47	100.47	1.8	PERIOD	ALL	43872				
595259.54	595259.5	4172957	0.02124	100.53	100.53	1.8	PERIOD	ALL	43872				
595229.53	595229.5	4172979	0.01001	100.99	100.99	1.8	PERIOD	ALL	43872				
595158.78	595158.8	4172949	0.00466	100.21	100.21	1.8	PERIOD	ALL	43872				
595424.36	595424.4	4172061	0.01186	97.49	105.13	1.8	PERIOD	ALL	43872				
595637.78	595637.8	4172034	0.01457	100.72	100.72	1.8	PERIOD	ALL	43872				
595497.98	595498	4172569	0.00329	100.51	100.51	1.8	PERIOD	ALL	43872				
595440.32	595440.3	4172696	0.00549	100.43	100.43	1.8	PERIOD	ALL	43872				
595531.74	595531.7	4172736	0.00303	100.51	100.51	1.8	PERIOD	ALL	43872				
595503.43	595503.4	4172797	0.00312	99.9	99.9	1.8	PERIOD	ALL	43872				
595293.61	595293.6	4172707	0.02514	100.17	100.17	1.8	PERIOD	ALL	43872				
595216.89	595216.9	4172907	0.02326	100.39	100.39	1.8	PERIOD	ALL	43872				
**	CONCUNIT	ug/m^3											
**	DEPUNIT	g/m^2											
**	CONCUNIT	ug/m^3											
**	DEPUNIT	g/m^2											

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*          AERMOD  (          18081):  PHASE              1 OPERATIOI ANNUAL   PM2.5      10/25/2019
*          AERMET  (          14134):     8:25:18
*          MODELING OPTIONS   USED:    NonDFAUL CONC     FLAT      and       ELEV       FLGPOL     URBAN
*          PLOT    FILE       OF       PERIOD   VALUES   AVERAGED ACROSS            0 YEARS      FOR        SOURCE     GROUP:     ALL
*          FOR     A          TOTAL    OF              735 RECEPTORS.
*          FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
XY         X       Y          AVERAGE  CONC     ZELEV    ZHILL    ZFLAG    AVE      GRP      NUM      HRS      NET      ID
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595574417	595574	4171743	0.0017	97.81	101.44	1.8	PERIOD	ALL	43872				
595594417	595594	4171743	0.00167	96.06	101.44	1.8	PERIOD	ALL	43872				
595614417	595614	4171743	0.00166	97.41	101.18	1.8	PERIOD	ALL	43872				
595634417	595634	4171743	0.00164	99.77	101.06	1.8	PERIOD	ALL	43872				
595654417	595654	4171743	0.00164	96.05	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171743	0.00164	95.92	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171743	0.00165	99.12	101.14	1.8	PERIOD	ALL	43872				
595534417	595534	4171763	0.00194	99.54	101.43	1.8	PERIOD	ALL	43872				
595554417	595554	4171763	0.00187	101.29	101.37	1.8	PERIOD	ALL	43872				
595574417	595574	4171763	0.00189	96.99	101.52	1.8	PERIOD	ALL	43872				
595594417	595594	4171763	0.00186	96.2	101.52	1.8	PERIOD	ALL	43872				
595614417	595614	4171763	0.00186	98.89	101.23	1.8	PERIOD	ALL	43872				
595634417	595634	4171763	0.00185	98.38	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171763	0.00183	96.28	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171763	0.00183	96.19	101.17	1.8	PERIOD	ALL	43872				
595694417	595694	4171763	0.00181	100.58	100.58	1.8	PERIOD	ALL	43872				
595714417	595714	4171763	0.00183	100.64	100.64	1.8	PERIOD	ALL	43872				
595734417	595734	4171763	0.00193	98.51	101.14	1.8	PERIOD	ALL	43872				
595754417	595754	4171763	0.00197	99.31	99.31	1.8	PERIOD	ALL	43872				
595534417	595534	4171783	0.00215	101.02	101.47	1.8	PERIOD	ALL	43872				
595554417	595554	4171783	0.00212	100.91	100.91	1.8	PERIOD	ALL	43872				
595574417	595574	4171783	0.00209	100.49	100.49	1.8	PERIOD	ALL	43872				
595594417	595594	4171783	0.00205	101.03	101.24	1.8	PERIOD	ALL	43872				
595614417	595614	4171783	0.00203	101.08	101.08	1.8	PERIOD	ALL	43872				
595634417	595634	4171783	0.00208	98.78	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171783	0.00207	96.81	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171783	0.00207	96.9	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171783	0.00203	101.09	101.09	1.8	PERIOD	ALL	43872				
595714417	595714	4171783	0.00214	98.99	101.14	1.8	PERIOD	ALL	43872				
595734417	595734	4171783	0.0022	99.01	99.01	1.8	PERIOD	ALL	43872				
595754417	595754	4171783	0.00224	99.75	99.75	1.8	PERIOD	ALL	43872				
595774417	595774	4171783	0.00233	99.74	99.74	1.8	PERIOD	ALL	43872				
595534417	595534	4171803	0.00244	101.23	101.23	1.8	PERIOD	ALL	43872				
595554417	595554	4171803	0.00239	101.24	101.45	1.8	PERIOD	ALL	43872				
595574417	595574	4171803	0.00242	97.44	101.54	1.8	PERIOD	ALL	43872				
595594417	595594	4171803	0.00239	97.57	101.3	1.8	PERIOD	ALL	43872				
595614417	595614	4171803	0.00237	97.82	101.24	1.8	PERIOD	ALL	43872				
595634417	595634	4171803	0.00236	98.75	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171803	0.0023	100.24	100.24	1.8	PERIOD	ALL	43872				
595674417	595674	4171803	0.0023	100.72	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171803	0.00232	101.01	101.01	1.8	PERIOD	ALL	43872				
595714417	595714	4171803	0.00247	97.43	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171803	0.00253	99.3	99.3	1.8	PERIOD	ALL	43872				
595754417	595754	4171803	0.00258	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4171823	0.00292	99.6	101.28	1.8	PERIOD	ALL	43872				
595534417	595534	4171823	0.0028	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171823	0.00276	100.86	101.53	1.8	PERIOD	ALL	43872				
595574417	595574	4171823	0.00275	95.57	101.66	1.8	PERIOD	ALL	43872				
595594417	595594	4171823	0.00271	95.8	101.66	1.8	PERIOD	ALL	43872				
595614417	595614	4171823	0.00271	97.3	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171823	0.0027	97.25	101.43	1.8	PERIOD	ALL	43872				
595654417	595654	4171823	0.0027	97.4	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171823	0.00274	99	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171823	0.0027	100.83	100.83	1.8	PERIOD	ALL	43872				
595714417	595714	4171823	0.00289	97.63	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171823	0.00297	99.32	99.32	1.8	PERIOD	ALL	43872				
595754417	595754	4171823	0.00307	99.75	99.75	1.8	PERIOD	ALL	43872				
595514417	595514	4171843	0.00338	100.28	101.23	1.8	PERIOD	ALL	43872				
595534417	595534	4171843	0.00326	101.27	101.27	1.8	PERIOD	ALL	43872				
595554417	595554	4171843	0.00318	101.27	101.27	1.8	PERIOD	ALL	43872				
595574417	595574	4171843	0.00323	97.82	101.61	1.8	PERIOD	ALL	43872				
595594417	595594	4171843	0.00315	95.87	101.8	1.8	PERIOD	ALL	43872				
595614417	595614	4171843	0.00314	97.52	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171843	0.00313	97.4	101.66	1.8	PERIOD	ALL	43872				
595654417	595654	4171843	0.00316	97.51	101.6	1.8	PERIOD	ALL	43872				
595674417	595674	4171843	0.00311	100.34	100.89	1.8	PERIOD	ALL	43872				
595694417	595694	4171843	0.00322	100.08	100.91	1.8	PERIOD	ALL	43872				
595714417	595714	4171843	0.00344	98.47	100.91	1.8	PERIOD	ALL	43872				
595734417	595734	4171843	0.00353	99.46	99.46	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595754417	595754	4171843	0.00368	99.53	99.53	1.8	PERIOD	ALL	43872				
595514417	595514	4171863	0.00397	100.93	100.93	1.8	PERIOD	ALL	43872				
595534417	595534	4171863	0.00384	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171863	0.00375	101.28	101.28	1.8	PERIOD	ALL	43872				
595574417	595574	4171863	0.00366	101.38	101.38	1.8	PERIOD	ALL	43872				
595594417	595594	4171863	0.00359	101.46	101.46	1.8	PERIOD	ALL	43872				
595614417	595614	4171863	0.00353	101.55	101.55	1.8	PERIOD	ALL	43872				
595634417	595634	4171863	0.0036	100.2	101.6	1.8	PERIOD	ALL	43872				
595654417	595654	4171863	0.00375	97.64	101.68	1.8	PERIOD	ALL	43872				
595674417	595674	4171863	0.00367	100.92	100.92	1.8	PERIOD	ALL	43872				
595694417	595694	4171863	0.00398	99.01	101.1	1.8	PERIOD	ALL	43872				
595714417	595714	4171863	0.00412	99.23	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171863	0.00427	99.62	100.86	1.8	PERIOD	ALL	43872				
595754417	595754	4171863	0.00445	99.5	99.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171863	0.00461	99.38	99.38	1.8	PERIOD	ALL	43872				
595794417	595794	4171863	0.00474	99.11	99.73	1.8	PERIOD	ALL	43872				
595814417	595814	4171863	0.00481	99.19	99.72	1.8	PERIOD	ALL	43872				
595514417	595514	4171883	0.00482	100.6	100.6	1.8	PERIOD	ALL	43872				
595534417	595534	4171883	0.00466	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4171883	0.00451	101.08	101.08	1.8	PERIOD	ALL	43872				
595574417	595574	4171883	0.00437	101.55	101.55	1.8	PERIOD	ALL	43872				
595594417	595594	4171883	0.00428	101.55	101.55	1.8	PERIOD	ALL	43872				
595614417	595614	4171883	0.00421	101.64	101.64	1.8	PERIOD	ALL	43872				
595634417	595634	4171883	0.00421	101.55	101.55	1.8	PERIOD	ALL	43872				
595654417	595654	4171883	0.00437	100.36	101.37	1.8	PERIOD	ALL	43872				
595674417	595674	4171883	0.00446	100.97	100.97	1.8	PERIOD	ALL	43872				
595694417	595694	4171883	0.00487	99.19	100.88	1.8	PERIOD	ALL	43872				
595714417	595714	4171883	0.00513	98.97	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171883	0.00529	99.35	99.35	1.8	PERIOD	ALL	43872				
595754417	595754	4171883	0.00545	99.53	99.53	1.8	PERIOD	ALL	43872				
595774417	595774	4171883	0.0056	99.4	99.4	1.8	PERIOD	ALL	43872				
595794417	595794	4171883	0.00567	99.66	99.66	1.8	PERIOD	ALL	43872				
595814417	595814	4171883	0.00573	99.07	99.07	1.8	PERIOD	ALL	43872				
595514417	595514	4171903	0.00591	101.04	101.04	1.8	PERIOD	ALL	43872				
595534417	595534	4171903	0.00564	101.38	101.38	1.8	PERIOD	ALL	43872				
595554417	595554	4171903	0.00549	101.3	101.3	1.8	PERIOD	ALL	43872				
595574417	595574	4171903	0.00539	100.94	100.94	1.8	PERIOD	ALL	43872				
595594417	595594	4171903	0.00526	101.02	101.02	1.8	PERIOD	ALL	43872				
595614417	595614	4171903	0.00519	101.05	101.05	1.8	PERIOD	ALL	43872				
595634417	595634	4171903	0.00515	101.56	101.56	1.8	PERIOD	ALL	43872				
595654417	595654	4171903	0.00535	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171903	0.00561	100.79	100.79	1.8	PERIOD	ALL	43872				
595694417	595694	4171903	0.00597	100.26	100.26	1.8	PERIOD	ALL	43872				
595714417	595714	4171903	0.00644	97.48	100.71	1.8	PERIOD	ALL	43872				
595734417	595734	4171903	0.00661	99.33	99.33	1.8	PERIOD	ALL	43872				
595754417	595754	4171903	0.00681	98.86	99.66	1.8	PERIOD	ALL	43872				
595774417	595774	4171903	0.00688	98.61	98.61	1.8	PERIOD	ALL	43872				
595794417	595794	4171903	0.00688	98.62	98.62	1.8	PERIOD	ALL	43872				
595814417	595814	4171903	0.00682	98.89	98.89	1.8	PERIOD	ALL	43872				
595534417	595534	4171923	0.00711	101.21	101.21	1.8	PERIOD	ALL	43872				
595554417	595554	4171923	0.00687	101.31	101.31	1.8	PERIOD	ALL	43872				
595574417	595574	4171923	0.00671	101.25	101.25	1.8	PERIOD	ALL	43872				
595594417	595594	4171923	0.00658	101.13	101.13	1.8	PERIOD	ALL	43872				
595614417	595614	4171923	0.00654	100.94	100.94	1.8	PERIOD	ALL	43872				
595634417	595634	4171923	0.00662	100.89	100.89	1.8	PERIOD	ALL	43872				
595654417	595654	4171923	0.00686	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171923	0.00728	100.68	100.68	1.8	PERIOD	ALL	43872				
595694417	595694	4171923	0.00768	100.64	100.64	1.8	PERIOD	ALL	43872				
595754417	595754	4171923	0.00847	98.09	100.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171923	0.00844	98.36	98.36	1.8	PERIOD	ALL	43872				
595794417	595794	4171923	0.00831	98.59	98.59	1.8	PERIOD	ALL	43872				
595814417	595814	4171923	0.00811	98.67	98.67	1.8	PERIOD	ALL	43872				
595534417	595534	4171943	0.0093	100.87	100.87	1.8	PERIOD	ALL	43872				
595554417	595554	4171943	0.00888	101.23	101.23	1.8	PERIOD	ALL	43872				
595574417	595574	4171943	0.00866	101.2	101.2	1.8	PERIOD	ALL	43872				
595594417	595594	4171943	0.0085	101.19	101.19	1.8	PERIOD	ALL	43872				
595614417	595614	4171943	0.0085	101.09	101.09	1.8	PERIOD	ALL	43872				
595634417	595634	4171943	0.00875	100.97	100.97	1.8	PERIOD	ALL	43872				
595654417	595654	4171943	0.00921	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171943	0.0098	100.66	100.66	1.8	PERIOD	ALL	43872				
595694417	595694	4171943	0.01026	100.51	100.51	1.8	PERIOD	ALL	43872				
595554417	595554	4171963	0.01197	100.97	100.97	1.8	PERIOD	ALL	43872				
595574417	595574	4171963	0.01162	101.11	101.11	1.8	PERIOD	ALL	43872				
595594417	595594	4171963	0.01149	101.05	101.05	1.8	PERIOD	ALL	43872				
595614417	595614	4171963	0.01169	101.02	101.02	1.8	PERIOD	ALL	43872				
595634417	595634	4171963	0.01236	100.84	100.84	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595654417	595654	4171963	0.01307	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171963	0.01368	100.84	100.84	1.8	PERIOD	ALL	43872				
595574417	595574	4171983	0.01643	100.92	100.92	1.8	PERIOD	ALL	43872				
595074417	595074	4172423	0.00288	101.37	101.37	1.8	PERIOD	ALL	43872				
595094417	595094	4172423	0.00313	101.32	101.32	1.8	PERIOD	ALL	43872				
595074417	595074	4172443	0.00283	101.51	101.51	1.8	PERIOD	ALL	43872				
595094417	595094	4172443	0.00307	101.39	101.39	1.8	PERIOD	ALL	43872				
595114417	595114	4172443	0.00335	101.38	101.38	1.8	PERIOD	ALL	43872				
595134417	595134	4172443	0.00367	101.3	101.3	1.8	PERIOD	ALL	43872				
595054417	595054	4172463	0.00256	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172463	0.00277	101.44	101.44	1.8	PERIOD	ALL	43872				
595094417	595094	4172463	0.00301	101.45	101.45	1.8	PERIOD	ALL	43872				
595114417	595114	4172463	0.00328	101.44	101.44	1.8	PERIOD	ALL	43872				
595054417	595054	4172483	0.00244	102.88	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172483	0.00269	101.5	103.72	1.8	PERIOD	ALL	43872				
595094417	595094	4172483	0.00292	101.42	101.42	1.8	PERIOD	ALL	43872				
595114417	595114	4172483	0.00319	101.42	101.42	1.8	PERIOD	ALL	43872				
595034417	595034	4172503	0.00223	101.51	101.51	1.8	PERIOD	ALL	43872				
595054417	595054	4172503	0.0024	101.99	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172503	0.0026	101.81	101.81	1.8	PERIOD	ALL	43872				
595094417	595094	4172503	0.00283	101.61	101.61	1.8	PERIOD	ALL	43872				
595114417	595114	4172503	0.0031	101.25	101.25	1.8	PERIOD	ALL	43872				
595034417	595034	4172523	0.00215	101.52	101.52	1.8	PERIOD	ALL	43872				
595054417	595054	4172523	0.00232	101.41	101.41	1.8	PERIOD	ALL	43872				
595074417	595074	4172523	0.00252	101.32	101.32	1.8	PERIOD	ALL	43872				
595094417	595094	4172523	0.00273	101.69	101.69	1.8	PERIOD	ALL	43872				
595034417	595034	4172543	0.00207	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172543	0.00224	101.38	101.38	1.8	PERIOD	ALL	43872				
595074417	595074	4172543	0.00243	101.42	101.42	1.8	PERIOD	ALL	43872				
595094417	595094	4172543	0.00264	101.27	101.27	1.8	PERIOD	ALL	43872				
595014417	595014	4172563	0.00186	101.4	101.4	1.8	PERIOD	ALL	43872				
595034417	595034	4172563	0.00201	101.46	101.46	1.8	PERIOD	ALL	43872				
595054417	595054	4172563	0.00217	101.48	101.48	1.8	PERIOD	ALL	43872				
595074417	595074	4172563	0.00235	101.58	101.58	1.8	PERIOD	ALL	43872				
595094417	595094	4172563	0.00257	101.36	101.36	1.8	PERIOD	ALL	43872				
595014417	595014	4172583	0.00181	101.37	101.37	1.8	PERIOD	ALL	43872				
595034417	595034	4172583	0.00195	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172583	0.00211	101.5	101.5	1.8	PERIOD	ALL	43872				
595074417	595074	4172583	0.00229	101.6	101.6	1.8	PERIOD	ALL	43872				
595034417	595034	4172603	0.00191	101.28	101.28	1.8	PERIOD	ALL	43872				
595054417	595054	4172603	0.00207	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172603	0.00226	101.45	101.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172643	0.00697	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172643	0.00671	100.68	100.68	1.8	PERIOD	ALL	43872				
595574417	595574	4172643	0.00641	100.98	100.98	1.8	PERIOD	ALL	43872				
595534417	595534	4172663	0.00612	100.7	100.7	1.8	PERIOD	ALL	43872				
595554417	595554	4172663	0.0059	100.77	100.77	1.8	PERIOD	ALL	43872				
595574417	595574	4172663	0.00566	100.96	100.96	1.8	PERIOD	ALL	43872				
595534417	595534	4172683	0.00546	100.64	100.64	1.8	PERIOD	ALL	43872				
595554417	595554	4172683	0.00526	100.72	100.72	1.8	PERIOD	ALL	43872				
595574417	595574	4172683	0.00507	100.77	100.77	1.8	PERIOD	ALL	43872				
595294417	595294	4172743	0.00639	99.98	99.98	1.8	PERIOD	ALL	43872				
595314417	595314	4172743	0.00595	100.38	100.38	1.8	PERIOD	ALL	43872				
595334417	595334	4172743	0.00628	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172743	0.00397	100.34	100.34	1.8	PERIOD	ALL	43872				
595294417	595294	4172763	0.0057	99.71	99.71	1.8	PERIOD	ALL	43872				
595314417	595314	4172763	0.00516	100.29	100.29	1.8	PERIOD	ALL	43872				
595334417	595334	4172763	0.00506	100.28	100.28	1.8	PERIOD	ALL	43872				
595354417	595354	4172763	0.00549	99.74	99.74	1.8	PERIOD	ALL	43872				
595374417	595374	4172763	0.00603	100.4	100.4	1.8	PERIOD	ALL	43872				
595534417	595534	4172763	0.00359	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172763	0.00348	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172763	0.00339	100.45	100.45	1.8	PERIOD	ALL	43872				
594934417	594934	4172783	0.00089	101.4	101.4	1.8	PERIOD	ALL	43872				
594954417	594954	4172783	0.00096	102.11	102.11	1.8	PERIOD	ALL	43872				
594974417	594974	4172783	0.00106	102.15	102.15	1.8	PERIOD	ALL	43872				
595274417	595274	4172783	0.00604	99.65	99.65	1.8	PERIOD	ALL	43872				
595354417	595354	4172783	0.00431	100.44	100.44	1.8	PERIOD	ALL	43872				
595374417	595374	4172783	0.00444	100.72	100.72	1.8	PERIOD	ALL	43872				
595394417	595394	4172783	0.00446	100.71	100.71	1.8	PERIOD	ALL	43872				
595414417	595414	4172783	0.00429	100.6	100.6	1.8	PERIOD	ALL	43872				
595434417	595434	4172783	0.00405	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4172783	0.00335	100.26	100.26	1.8	PERIOD	ALL	43872				
595534417	595534	4172783	0.00325	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172783	0.00317	100.43	100.43	1.8	PERIOD	ALL	43872				
595574417	595574	4172783	0.00309	100.28	100.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595594417	595594	4172783	0.00302	100.51	100.51	1.8	PERIOD	ALL	43872				
595614417	595614	4172783	0.00295	100.48	100.48	1.8	PERIOD	ALL	43872				
595634417	595634	4172783	0.00288	100.67	100.67	1.8	PERIOD	ALL	43872				
594894417	594894	4172803	0.0007	102.16	102.16	1.8	PERIOD	ALL	43872				
594914417	594914	4172803	0.00075	102.17	102.17	1.8	PERIOD	ALL	43872				
594934417	594934	4172803	0.00082	101.92	101.92	1.8	PERIOD	ALL	43872				
594954417	594954	4172803	0.00089	102.04	102.04	1.8	PERIOD	ALL	43872				
594974417	594974	4172803	0.00098	101.95	101.95	1.8	PERIOD	ALL	43872				
595274417	595274	4172803	0.00537	100.01	100.01	1.8	PERIOD	ALL	43872				
595294417	595294	4172803	0.00454	100.3	100.3	1.8	PERIOD	ALL	43872				
595314417	595314	4172803	0.00404	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172803	0.00365	100.25	100.25	1.8	PERIOD	ALL	43872				
595374417	595374	4172803	0.00364	100.6	100.6	1.8	PERIOD	ALL	43872				
595394417	595394	4172803	0.00363	100.74	100.74	1.8	PERIOD	ALL	43872				
595414417	595414	4172803	0.00357	100.67	100.67	1.8	PERIOD	ALL	43872				
595434417	595434	4172803	0.00346	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172803	0.00334	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4172803	0.00324	100.41	100.41	1.8	PERIOD	ALL	43872				
595534417	595534	4172803	0.00297	100.13	100.13	1.8	PERIOD	ALL	43872				
595554417	595554	4172803	0.0029	100.34	100.34	1.8	PERIOD	ALL	43872				
595574417	595574	4172803	0.00283	100.23	100.23	1.8	PERIOD	ALL	43872				
595594417	595594	4172803	0.00277	100.53	100.53	1.8	PERIOD	ALL	43872				
595614417	595614	4172803	0.00272	100.44	100.44	1.8	PERIOD	ALL	43872				
595634417	595634	4172803	0.00266	100.46	100.46	1.8	PERIOD	ALL	43872				
595654417	595654	4172803	0.0026	100.59	100.59	1.8	PERIOD	ALL	43872				
595674417	595674	4172803	0.00254	100.79	100.79	1.8	PERIOD	ALL	43872				
594874417	594874	4172823	0.0006	102.62	102.62	1.8	PERIOD	ALL	43872				
594894417	594894	4172823	0.00064	102.35	102.35	1.8	PERIOD	ALL	43872				
594914417	594914	4172823	0.00069	102.14	102.14	1.8	PERIOD	ALL	43872				
594934417	594934	4172823	0.00075	102.01	102.01	1.8	PERIOD	ALL	43872				
594954417	594954	4172823	0.00081	102.05	102.05	1.8	PERIOD	ALL	43872				
595254417	595254	4172823	0.00588	100.08	100.08	1.8	PERIOD	ALL	43872				
595274417	595274	4172823	0.00472	100.22	100.22	1.8	PERIOD	ALL	43872				
595294417	595294	4172823	0.00401	100.3	100.3	1.8	PERIOD	ALL	43872				
595334417	595334	4172823	0.00331	100	100	1.8	PERIOD	ALL	43872				
595354417	595354	4172823	0.00317	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4172823	0.00312	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172823	0.0031	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172823	0.00306	100.72	100.72	1.8	PERIOD	ALL	43872				
595434417	595434	4172823	0.00301	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172823	0.00295	100.7	100.7	1.8	PERIOD	ALL	43872				
595474417	595474	4172823	0.00289	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172823	0.00283	100.6	100.6	1.8	PERIOD	ALL	43872				
595514417	595514	4172823	0.00277	100.46	100.46	1.8	PERIOD	ALL	43872				
595534417	595534	4172823	0.00271	100.26	100.26	1.8	PERIOD	ALL	43872				
595574417	595574	4172823	0.00261	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172823	0.00256	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172823	0.00251	100.3	100.3	1.8	PERIOD	ALL	43872				
595634417	595634	4172823	0.00246	100.44	100.44	1.8	PERIOD	ALL	43872				
595654417	595654	4172823	0.00241	100.49	100.49	1.8	PERIOD	ALL	43872				
595674417	595674	4172823	0.00236	100.62	103.26	1.8	PERIOD	ALL	43872				
594874417	594874	4172843	0.00056	102.26	102.26	1.8	PERIOD	ALL	43872				
594894417	594894	4172843	0.00059	102.58	102.58	1.8	PERIOD	ALL	43872				
594914417	594914	4172843	0.00064	102.24	102.24	1.8	PERIOD	ALL	43872				
594934417	594934	4172843	0.00068	102.03	102.03	1.8	PERIOD	ALL	43872				
594954417	594954	4172843	0.00073	102.09	102.09	1.8	PERIOD	ALL	43872				
595254417	595254	4172843	0.005	100.26	100.26	1.8	PERIOD	ALL	43872				
595274417	595274	4172843	0.00408	100.08	100.08	1.8	PERIOD	ALL	43872				
595294417	595294	4172843	0.00351	100.1	100.1	1.8	PERIOD	ALL	43872				
595334417	595334	4172843	0.00291	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172843	0.00279	100.33	100.33	1.8	PERIOD	ALL	43872				
595374417	595374	4172843	0.00273	100.38	100.38	1.8	PERIOD	ALL	43872				
595394417	595394	4172843	0.0027	100.49	100.49	1.8	PERIOD	ALL	43872				
595414417	595414	4172843	0.00268	100.47	100.47	1.8	PERIOD	ALL	43872				
595434417	595434	4172843	0.00266	100.54	100.54	1.8	PERIOD	ALL	43872				
595454417	595454	4172843	0.00263	100.52	100.52	1.8	PERIOD	ALL	43872				
595474417	595474	4172843	0.00259	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172843	0.00256	100.63	100.63	1.8	PERIOD	ALL	43872				
595514417	595514	4172843	0.00252	100.5	100.5	1.8	PERIOD	ALL	43872				
595534417	595534	4172843	0.00248	100.56	100.56	1.8	PERIOD	ALL	43872				
595554417	595554	4172843	0.00244	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172843	0.0024	100.2	100.2	1.8	PERIOD	ALL	43872				
595634417	595634	4172843	0.00228	100.47	100.47	1.8	PERIOD	ALL	43872				
595654417	595654	4172843	0.00224	100.55	100.55	1.8	PERIOD	ALL	43872				
595674417	595674	4172843	0.0022	100.74	103.38	1.8	PERIOD	ALL	43872				
594854417	594854	4172863	0.0005	102.28	102.28	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
594874417	594874	4172863	0.00052	102.02	102.02	1.8	PERIOD	ALL	43872				
594894417	594894	4172863	0.00054	102.5	102.5	1.8	PERIOD	ALL	43872				
594914417	594914	4172863	0.00057	102.54	102.54	1.8	PERIOD	ALL	43872				
594934417	594934	4172863	0.00062	102.11	102.11	1.8	PERIOD	ALL	43872				
595234417	595234	4172863	0.00527	100.45	100.45	1.8	PERIOD	ALL	43872				
595254417	595254	4172863	0.00411	100.52	100.52	1.8	PERIOD	ALL	43872				
595274417	595274	4172863	0.00344	100.51	100.51	1.8	PERIOD	ALL	43872				
595294417	595294	4172863	0.00303	99.89	99.89	1.8	PERIOD	ALL	43872				
595314417	595314	4172863	0.00275	99.89	99.89	1.8	PERIOD	ALL	43872				
595334417	595334	4172863	0.00257	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172863	0.00246	100.36	100.36	1.8	PERIOD	ALL	43872				
595374417	595374	4172863	0.00241	100.26	100.26	1.8	PERIOD	ALL	43872				
595394417	595394	4172863	0.00238	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172863	0.00237	100.48	100.48	1.8	PERIOD	ALL	43872				
595434417	595434	4172863	0.00237	100.43	100.43	1.8	PERIOD	ALL	43872				
595454417	595454	4172863	0.00236	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172863	0.00235	100.32	100.32	1.8	PERIOD	ALL	43872				
595494417	595494	4172863	0.00233	100.36	100.36	1.8	PERIOD	ALL	43872				
595514417	595514	4172863	0.0023	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172863	0.00228	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172863	0.00225	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4172863	0.00222	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172863	0.00219	99.98	99.98	1.8	PERIOD	ALL	43872				
595614417	595614	4172863	0.00216	99.8	99.8	1.8	PERIOD	ALL	43872				
594854417	594854	4172883	0.00046	102.58	102.58	1.8	PERIOD	ALL	43872				
594874417	594874	4172883	0.00048	102.6	102.6	1.8	PERIOD	ALL	43872				
594894417	594894	4172883	0.0005	102.69	102.69	1.8	PERIOD	ALL	43872				
594914417	594914	4172883	0.00052	102.66	102.66	1.8	PERIOD	ALL	43872				
595234417	595234	4172883	0.00397	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172883	0.00328	100.54	100.54	1.8	PERIOD	ALL	43872				
595274417	595274	4172883	0.00286	100.54	100.54	1.8	PERIOD	ALL	43872				
595294417	595294	4172883	0.00258	100.2	100.2	1.8	PERIOD	ALL	43872				
595314417	595314	4172883	0.00238	100.36	100.36	1.8	PERIOD	ALL	43872				
595334417	595334	4172883	0.00226	100.08	100.08	1.8	PERIOD	ALL	43872				
595374417	595374	4172883	0.00215	99.88	99.88	1.8	PERIOD	ALL	43872				
595394417	595394	4172883	0.00213	100.28	100.28	1.8	PERIOD	ALL	43872				
595414417	595414	4172883	0.00212	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172883	0.00213	100.04	100.04	1.8	PERIOD	ALL	43872				
595454417	595454	4172883	0.00213	100.23	100.23	1.8	PERIOD	ALL	43872				
595474417	595474	4172883	0.00213	100.21	100.21	1.8	PERIOD	ALL	43872				
595494417	595494	4172883	0.00212	100.31	100.31	1.8	PERIOD	ALL	43872				
595514417	595514	4172883	0.00211	100.17	100.17	1.8	PERIOD	ALL	43872				
595534417	595534	4172883	0.00209	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172883	0.00208	100.2	100.2	1.8	PERIOD	ALL	43872				
595574417	595574	4172883	0.00206	99.94	99.94	1.8	PERIOD	ALL	43872				
595594417	595594	4172883	0.00203	100.18	100.18	1.8	PERIOD	ALL	43872				
595614417	595614	4172883	0.002	100.32	100.32	1.8	PERIOD	ALL	43872				
595634417	595634	4172883	0.00197	100.41	100.41	1.8	PERIOD	ALL	43872				
595654417	595654	4172883	0.00195	100.41	103.37	1.8	PERIOD	ALL	43872				
594854417	594854	4172903	0.00043	102.65	102.65	1.8	PERIOD	ALL	43872				
594874417	594874	4172903	0.00045	102.65	102.65	1.8	PERIOD	ALL	43872				
594894417	594894	4172903	0.00046	102.74	102.74	1.8	PERIOD	ALL	43872				
594914417	594914	4172903	0.00049	102.69	102.69	1.8	PERIOD	ALL	43872				
595234417	595234	4172903	0.00293	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172903	0.0026	100.53	100.53	1.8	PERIOD	ALL	43872				
595274417	595274	4172903	0.00236	100.45	100.45	1.8	PERIOD	ALL	43872				
595294417	595294	4172903	0.00219	100.31	100.31	1.8	PERIOD	ALL	43872				
595314417	595314	4172903	0.00207	100.46	100.46	1.8	PERIOD	ALL	43872				
595334417	595334	4172903	0.00199	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172903	0.00194	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4172903	0.00191	100.21	100.21	1.8	PERIOD	ALL	43872				
595414417	595414	4172903	0.00192	99.79	99.79	1.8	PERIOD	ALL	43872				
595434417	595434	4172903	0.00192	99.89	99.89	1.8	PERIOD	ALL	43872				
595454417	595454	4172903	0.00193	100.08	100.08	1.8	PERIOD	ALL	43872				
595474417	595474	4172903	0.00194	100.22	100.22	1.8	PERIOD	ALL	43872				
595494417	595494	4172903	0.00194	100.21	100.21	1.8	PERIOD	ALL	43872				
595514417	595514	4172903	0.00194	100.31	100.31	1.8	PERIOD	ALL	43872				
595534417	595534	4172903	0.00193	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172903	0.00192	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172903	0.0019	99.89	99.89	1.8	PERIOD	ALL	43872				
595594417	595594	4172903	0.00188	100.29	100.29	1.8	PERIOD	ALL	43872				
595614417	595614	4172903	0.00186	100.53	100.53	1.8	PERIOD	ALL	43872				
595634417	595634	4172903	0.00184	100.5	100.5	1.8	PERIOD	ALL	43872				
594854417	594854	4172923	0.0004	102.77	102.77	1.8	PERIOD	ALL	43872				
594874417	594874	4172923	0.00042	102.64	102.64	1.8	PERIOD	ALL	43872				
594894417	594894	4172923	0.00044	102.66	102.66	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
594914417	594914	4172923	0.00046	102.49	102.49	1.8	PERIOD	ALL	43872				
595254417	595254	4172923	0.00209	100.4	100.4	1.8	PERIOD	ALL	43872				
595274417	595274	4172923	0.00198	100.38	100.38	1.8	PERIOD	ALL	43872				
595294417	595294	4172923	0.00188	100.46	100.46	1.8	PERIOD	ALL	43872				
595314417	595314	4172923	0.00181	100.49	100.49	1.8	PERIOD	ALL	43872				
595334417	595334	4172923	0.00176	100.2	100.2	1.8	PERIOD	ALL	43872				
595354417	595354	4172923	0.00173	100.48	100.48	1.8	PERIOD	ALL	43872				
595374417	595374	4172923	0.00172	100.49	100.49	1.8	PERIOD	ALL	43872				
595394417	595394	4172923	0.00172	100.39	100.39	1.8	PERIOD	ALL	43872				
595414417	595414	4172923	0.00173	100.14	100.14	1.8	PERIOD	ALL	43872				
595474417	595474	4172923	0.00177	99.91	99.91	1.8	PERIOD	ALL	43872				
595494417	595494	4172923	0.00178	100.23	100.23	1.8	PERIOD	ALL	43872				
595514417	595514	4172923	0.00178	100.34	100.34	1.8	PERIOD	ALL	43872				
595534417	595534	4172923	0.00178	100.43	100.43	1.8	PERIOD	ALL	43872				
595554417	595554	4172923	0.00178	100.04	100.04	1.8	PERIOD	ALL	43872				
595574417	595574	4172923	0.00177	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172923	0.00175	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172923	0.00174	100.19	100.19	1.8	PERIOD	ALL	43872				
595634417	595634	4172923	0.00172	100.4	103.39	1.8	PERIOD	ALL	43872				
595314417	595314	4172943	0.0016	100.39	100.39	1.8	PERIOD	ALL	43872				
595334417	595334	4172943	0.00157	100.45	100.45	1.8	PERIOD	ALL	43872				
595354417	595354	4172943	0.00156	100.45	100.45	1.8	PERIOD	ALL	43872				
595374417	595374	4172943	0.00155	100.46	100.46	1.8	PERIOD	ALL	43872				
595394417	595394	4172943	0.00156	100.23	100.23	1.8	PERIOD	ALL	43872				
595414417	595414	4172943	0.00157	100.25	100.25	1.8	PERIOD	ALL	43872				
595434417	595434	4172943	0.00159	100.18	100.18	1.8	PERIOD	ALL	43872				
595454417	595454	4172943	0.00161	100.13	100.13	1.8	PERIOD	ALL	43872				
595514417	595514	4172943	0.00165	100.03	100.03	1.8	PERIOD	ALL	43872				
595534417	595534	4172943	0.00165	100.11	100.11	1.8	PERIOD	ALL	43872				
595554417	595554	4172943	0.00165	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172943	0.00164	100.35	100.35	1.8	PERIOD	ALL	43872				
595594417	595594	4172943	0.00163	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172943	0.00162	100.17	100.17	1.8	PERIOD	ALL	43872				
595634417	595634	4172943	0.00161	100.44	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172963	0.00142	100.56	100.56	1.8	PERIOD	ALL	43872				
595334417	595334	4172963	0.00142	100.25	100.25	1.8	PERIOD	ALL	43872				
595354417	595354	4172963	0.00141	100.32	100.32	1.8	PERIOD	ALL	43872				
595374417	595374	4172963	0.00141	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172963	0.00142	100.33	100.33	1.8	PERIOD	ALL	43872				
595414417	595414	4172963	0.00144	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172963	0.00146	100.25	100.25	1.8	PERIOD	ALL	43872				
595454417	595454	4172963	0.00148	100.28	100.28	1.8	PERIOD	ALL	43872				
595474417	595474	4172963	0.00149	100.51	100.51	1.8	PERIOD	ALL	43872				
595494417	595494	4172963	0.00151	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4172963	0.00152	100.21	100.21	1.8	PERIOD	ALL	43872				
595554417	595554	4172963	0.00153	100.17	100.17	1.8	PERIOD	ALL	43872				
595574417	595574	4172963	0.00153	100.25	100.25	1.8	PERIOD	ALL	43872				
595594417	595594	4172963	0.00152	100.29	100.29	1.8	PERIOD	ALL	43872				
595614417	595614	4172963	0.00151	100.18	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172983	0.00127	100.55	100.55	1.8	PERIOD	ALL	43872				
595334417	595334	4172983	0.00128	100.31	100.31	1.8	PERIOD	ALL	43872				
595354417	595354	4172983	0.00129	100.27	100.27	1.8	PERIOD	ALL	43872				
595374417	595374	4172983	0.00129	100.28	100.28	1.8	PERIOD	ALL	43872				
595394417	595394	4172983	0.00131	100.2	100.2	1.8	PERIOD	ALL	43872				
595414417	595414	4172983	0.00132	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4172983	0.00134	100.19	100.19	1.8	PERIOD	ALL	43872				
595454417	595454	4172983	0.00136	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172983	0.00138	100.46	100.46	1.8	PERIOD	ALL	43872				
595494417	595494	4172983	0.0014	100.32	100.32	1.8	PERIOD	ALL	43872				
595514417	595514	4172983	0.00141	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4172983	0.00142	100.46	100.46	1.8	PERIOD	ALL	43872				
595554417	595554	4172983	0.00142	100.33	100.33	1.8	PERIOD	ALL	43872				
595574417	595574	4172983	0.00142	100.62	100.62	1.8	PERIOD	ALL	43872				
595594417	595594	4172983	0.00142	100.58	100.58	1.8	PERIOD	ALL	43872				
595614417	595614	4172983	0.00142	100.33	103.43	1.8	PERIOD	ALL	43872				
595314417	595314	4173003	0.00115	100.23	100.23	1.8	PERIOD	ALL	43872				
595334417	595334	4173003	0.00116	100.48	100.48	1.8	PERIOD	ALL	43872				
595354417	595354	4173003	0.00117	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4173003	0.00119	100.29	100.29	1.8	PERIOD	ALL	43872				
595394417	595394	4173003	0.0012	100.31	100.31	1.8	PERIOD	ALL	43872				
595414417	595414	4173003	0.00122	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4173003	0.00124	100.22	100.22	1.8	PERIOD	ALL	43872				
595454417	595454	4173003	0.00126	100.15	100.15	1.8	PERIOD	ALL	43872				
595474417	595474	4173003	0.00128	100.35	100.35	1.8	PERIOD	ALL	43872				
595494417	595494	4173003	0.0013	100.4	100.4	1.8	PERIOD	ALL	43872				
595514417	595514	4173003	0.00131	100.52	100.52	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595534417	595534	4173003	0.00132	100.5	100.5	1.8	PERIOD	ALL	43872				
595554417	595554	4173003	0.00133	100.45	100.45	1.8	PERIOD	ALL	43872				
595574417	595574	4173003	0.00133	100.8	100.8	1.8	PERIOD	ALL	43872				
595594417	595594	4173003	0.00133	100.73	100.73	1.8	PERIOD	ALL	43872				
595294417	595294	4173023	0.00103	100.68	100.68	1.8	PERIOD	ALL	43872				
595314417	595314	4173023	0.00104	100.7	100.7	1.8	PERIOD	ALL	43872				
595334417	595334	4173023	0.00106	100.49	100.49	1.8	PERIOD	ALL	43872				
595354417	595354	4173023	0.00108	100.38	100.38	1.8	PERIOD	ALL	43872				
595374417	595374	4173023	0.00109	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173023	0.00111	100.27	100.27	1.8	PERIOD	ALL	43872				
595414417	595414	4173023	0.00113	100.22	100.22	1.8	PERIOD	ALL	43872				
595434417	595434	4173023	0.00115	100.42	100.42	1.8	PERIOD	ALL	43872				
595454417	595454	4173023	0.00117	100.45	100.45	1.8	PERIOD	ALL	43872				
595474417	595474	4173023	0.00119	100.49	100.49	1.8	PERIOD	ALL	43872				
595494417	595494	4173023	0.00121	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4173023	0.00122	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4173023	0.00123	100.53	100.53	1.8	PERIOD	ALL	43872				
595554417	595554	4173023	0.00124	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4173023	0.00125	100.77	100.77	1.8	PERIOD	ALL	43872				
595594417	595594	4173023	0.00125	100.64	103.48	1.8	PERIOD	ALL	43872				
595294417	595294	4173043	0.00093	100.56	100.56	1.8	PERIOD	ALL	43872				
595314417	595314	4173043	0.00095	100.62	100.62	1.8	PERIOD	ALL	43872				
595334417	595334	4173043	0.00097	100.43	100.43	1.8	PERIOD	ALL	43872				
595354417	595354	4173043	0.00099	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4173043	0.00101	100.31	100.31	1.8	PERIOD	ALL	43872				
595394417	595394	4173043	0.00103	100.26	100.26	1.8	PERIOD	ALL	43872				
595414417	595414	4173043	0.00105	100.4	100.4	1.8	PERIOD	ALL	43872				
595434417	595434	4173043	0.00107	100.52	100.52	1.8	PERIOD	ALL	43872				
595454417	595454	4173043	0.00109	100.6	100.6	1.8	PERIOD	ALL	43872				
595474417	595474	4173043	0.00111	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173043	0.00113	100.53	100.53	1.8	PERIOD	ALL	43872				
595514417	595514	4173043	0.00114	100.67	100.67	1.8	PERIOD	ALL	43872				
595534417	595534	4173043	0.00115	100.82	100.82	1.8	PERIOD	ALL	43872				
595554417	595554	4173043	0.00116	100.8	100.8	1.8	PERIOD	ALL	43872				
595574417	595574	4173043	0.00117	100.76	100.76	1.8	PERIOD	ALL	43872				
595294417	595294	4173063	0.00086	100.51	100.51	1.8	PERIOD	ALL	43872				
595314417	595314	4173063	0.00088	100.5	100.5	1.8	PERIOD	ALL	43872				
595334417	595334	4173063	0.0009	100.41	100.41	1.8	PERIOD	ALL	43872				
595354417	595354	4173063	0.00092	100.35	100.35	1.8	PERIOD	ALL	43872				
595374417	595374	4173063	0.00094	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173063	0.00095	100.53	100.53	1.8	PERIOD	ALL	43872				
595414417	595414	4173063	0.00097	100.71	100.71	1.8	PERIOD	ALL	43872				
595434417	595434	4173063	0.00099	100.79	100.79	1.8	PERIOD	ALL	43872				
595454417	595454	4173063	0.00101	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4173063	0.00103	100.66	100.66	1.8	PERIOD	ALL	43872				
595494417	595494	4173063	0.00105	100.46	100.46	1.8	PERIOD	ALL	43872				
595514417	595514	4173063	0.00107	100.62	100.62	1.8	PERIOD	ALL	43872				
595534417	595534	4173063	0.00108	100.9	100.9	1.8	PERIOD	ALL	43872				
595554417	595554	4173063	0.00109	100.86	100.86	1.8	PERIOD	ALL	43872				
595574417	595574	4173063	0.0011	101.05	101.05	1.8	PERIOD	ALL	43872				
595354417	595354	4173083	0.00085	100.42	100.42	1.8	PERIOD	ALL	43872				
595374417	595374	4173083	0.00087	100.64	100.64	1.8	PERIOD	ALL	43872				
595394417	595394	4173083	0.00089	100.88	100.88	1.8	PERIOD	ALL	43872				
595414417	595414	4173083	0.00091	101.03	101.03	1.8	PERIOD	ALL	43872				
595434417	595434	4173083	0.00093	101.05	101.05	1.8	PERIOD	ALL	43872				
595454417	595454	4173083	0.00095	100.81	100.81	1.8	PERIOD	ALL	43872				
595474417	595474	4173083	0.00097	100.59	100.59	1.8	PERIOD	ALL	43872				
595494417	595494	4173083	0.00099	100	100	1.8	PERIOD	ALL	43872				
595514417	595514	4173083	0.001	100.1	101.15	1.8	PERIOD	ALL	43872				
595534417	595534	4173083	0.00101	100.98	100.98	1.8	PERIOD	ALL	43872				
595554417	595554	4173083	0.00103	100.83	100.83	1.8	PERIOD	ALL	43872				
595574417	595574	4173083	0.00103	101.15	101.15	1.8	PERIOD	ALL	43872				
595334417	595334	4173103	0.00077	100.68	100.68	1.8	PERIOD	ALL	43872				
595354417	595354	4173103	0.00079	100.7	100.7	1.8	PERIOD	ALL	43872				
595374417	595374	4173103	0.00081	100.97	100.97	1.8	PERIOD	ALL	43872				
595394417	595394	4173103	0.00083	101.23	101.23	1.8	PERIOD	ALL	43872				
595414417	595414	4173103	0.00085	101.35	101.35	1.8	PERIOD	ALL	43872				
595434417	595434	4173103	0.00087	101.31	101.31	1.8	PERIOD	ALL	43872				
595454417	595454	4173103	0.00089	100.9	100.9	1.8	PERIOD	ALL	43872				
595474417	595474	4173103	0.00091	100.45	100.45	1.8	PERIOD	ALL	43872				
595494417	595494	4173103	0.00093	99.96	99.96	1.8	PERIOD	ALL	43872				
595514417	595514	4173103	0.00094	101.04	101.04	1.8	PERIOD	ALL	43872				
595334417	595334	4173123	0.00072	101.04	101.04	1.8	PERIOD	ALL	43872				
595354417	595354	4173123	0.00074	101.14	101.14	1.8	PERIOD	ALL	43872				
595374417	595374	4173123	0.00076	101.35	101.35	1.8	PERIOD	ALL	43872				
595394417	595394	4173123	0.00077	101.55	101.55	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595414417	595414	4173123	0.00079	101.55	101.55	1.8	PERIOD	ALL	43872				
595434417	595434	4173123	0.00081	101.41	101.41	1.8	PERIOD	ALL	43872				
595454417	595454	4173123	0.00083	100.91	100.91	1.8	PERIOD	ALL	43872				
595474417	595474	4173123	0.00085	100.19	100.19	1.8	PERIOD	ALL	43872				
595494417	595494	4173123	0.00087	99.99	99.99	1.8	PERIOD	ALL	43872				
595514417	595514	4173123	0.00088	101.16	101.16	1.8	PERIOD	ALL	43872				
595354417	595354	4173143	0.00069	101.45	101.45	1.8	PERIOD	ALL	43872				
595374417	595374	4173143	0.00071	101.56	101.56	1.8	PERIOD	ALL	43872				
595394417	595394	4173143	0.00073	101.52	101.52	1.8	PERIOD	ALL	43872				
595414417	595414	4173143	0.00075	100.68	101.67	1.8	PERIOD	ALL	43872				
595434417	595434	4173143	0.00077	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173143	0.00082	101.03	101.03	1.8	PERIOD	ALL	43872				
595354417	595354	4173163	0.00065	101.34	101.34	1.8	PERIOD	ALL	43872				
595374417	595374	4173163	0.00067	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173163	0.00068	101.61	101.61	1.8	PERIOD	ALL	43872				
595414417	595414	4173163	0.0007	101.03	101.61	1.8	PERIOD	ALL	43872				
595434417	595434	4173163	0.00072	101.09	101.09	1.8	PERIOD	ALL	43872				
595374417	595374	4173183	0.00063	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173183	0.00065	101.69	101.69	1.8	PERIOD	ALL	43872				
595414417	595414	4173183	0.00066	101.66	101.66	1.8	PERIOD	ALL	43872				
595434417	595434	4173183	0.00068	101.62	101.62	1.8	PERIOD	ALL	43872				
595203.12	595203.1	4172931	0.00206	100.67	100.67	0.5	PERIOD	ALL	43872				
595305.29	595305.3	4173022	0.00104	100.77	100.77	1.8	PERIOD	ALL	43872				
596059.85	596059.9	4172739	0.00172	99.91	99.91	0.5	PERIOD	ALL	43872				
595782.44	595782.4	4171913	0.00762	98.53	98.53	1.8	PERIOD	ALL	43872				
595790.49	595790.5	4171878	0.00538	99.65	99.65	1.8	PERIOD	ALL	43872				
595826.59	595826.6	4171700	0.00148	100.23	100.23	1.8	PERIOD	ALL	43872				
595857.85	595857.9	4171568	0.00081	100.14	100.14	1.8	PERIOD	ALL	43872				
595427.66	595427.7	4172811	0.00329	100.71	100.71	1.8	PERIOD	ALL	43872				
595616.96	595617	4172891	0.00194	100.4	100.4	1.8	PERIOD	ALL	43872				
595465.61	595465.6	4172972	0.00143	100.46	100.46	1.8	PERIOD	ALL	43872				
595413.93	595413.9	4172953	0.0015	100.29	100.29	1.8	PERIOD	ALL	43872				
595207.62	595207.6	4172858	0.00965	100.54	100.54	1.8	PERIOD	ALL	43872				
595229.35	595229.4	4172794	0.01108	100.13	100.13	1.8	PERIOD	ALL	43872				
595251.41	595251.4	4172717	0.01251	100.32	100.32	1.8	PERIOD	ALL	43872				
595276.16	595276.2	4172655	0.01247	100.2	100.2	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171791	0.00343	100.11	100.11	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171791	0.00338	100.26	100.26	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171791	0.0033	100.24	100.24	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171811	0.00391	100.36	100.36	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171811	0.00389	100.68	100.68	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171811	0.00387	99.97	99.97	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171811	0.00381	100.19	100.19	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171831	0.00435	100.59	100.59	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171831	0.0044	100.73	100.73	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171831	0.00443	100.65	100.65	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171831	0.00444	100.14	100.14	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171831	0.00441	100.04	100.04	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171851	0.0047	101.05	101.05	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171851	0.00484	100.34	100.34	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171851	0.00495	100.23	100.23	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171851	0.00503	100.17	100.17	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171851	0.00509	100.04	100.04	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171851	0.00511	99.91	99.91	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171871	0.00492	100.71	100.71	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171871	0.00514	100.49	100.49	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171871	0.00533	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171871	0.00552	100.43	100.43	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171871	0.00568	100.24	100.24	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171871	0.00581	100.03	100.03	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171891	0.00497	100.62	100.62	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171891	0.00525	100.56	100.56	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171891	0.00553	100.56	100.56	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171891	0.00582	100.42	100.42	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171891	0.00609	100.37	100.37	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171891	0.00636	100.16	100.16	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171891	0.0066	99.95	99.95	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171911	0.00518	100.75	100.75	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171911	0.00551	100.77	100.77	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171911	0.00587	100.62	100.62	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171911	0.00625	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171911	0.00664	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171911	0.00702	100.18	100.18	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171911	0.00741	99.82	99.82	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171931	0.00498	100.92	100.92	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171931	0.00532	100.86	100.86	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595206.24	595206.2	4171931	0.00571	100.62	100.62	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171931	0.00612	100.67	100.67	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171931	0.00659	100.18	100.18	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171931	0.00709	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171931	0.00761	100.02	100.02	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171951	0.00504	100.84	100.84	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171951	0.0054	100.89	100.89	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171951	0.00581	100.76	100.76	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171951	0.00627	100.9	100.9	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171951	0.00681	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171951	0.0074	100.14	100.14	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171951	0.00807	99.77	107.32	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171971	0.00471	101.29	101.29	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171971	0.00504	101.33	101.33	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171971	0.00541	101.08	101.08	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171971	0.00584	100.9	100.9	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171971	0.00632	100.83	100.83	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171971	0.0069	100.1	106.99	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171971	0.00757	99.89	107.46	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171991	0.00469	101.35	101.35	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171991	0.00502	101.3	101.3	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171991	0.00539	101.06	101.06	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171991	0.0058	100.9	100.9	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171825	0.00362	99.74	99.74	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171845	0.00422	99.78	99.78	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171865	0.00493	99.69	99.69	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171865	0.00489	99.79	99.79	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171865	0.00483	99.86	99.86	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171885	0.00581	99.37	99.37	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171885	0.00575	99.45	99.45	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171885	0.00565	99.52	99.52	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171885	0.00552	99.54	99.54	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171905	0.00684	99.29	99.29	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171905	0.00667	99.02	99.02	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171905	0.00647	98.96	98.96	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171905	0.00625	99.22	99.22	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171905	0.00602	99.73	99.73	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171925	0.00802	99.44	99.44	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171925	0.00771	99.31	99.31	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171925	0.00738	99.35	99.35	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171925	0.00703	99.25	99.25	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171925	0.00669	99.22	99.22	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171945	0.00879	98.82	99.52	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171945	0.00832	99.23	99.23	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171945	0.00785	99.54	99.54	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171945	0.0074	99.69	99.69	1.8	PERIOD	ALL	43872				
595932.66	595932.7	4171945	0.00696	99.72	99.72	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172101	0.00365	101.15	101.15	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172101	0.0039	101.08	101.08	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172101	0.00418	100.79	100.79	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172121	0.00355	101.3	101.3	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172121	0.0038	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172121	0.00406	101.01	101.01	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172141	0.00323	101.31	101.31	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172141	0.00345	101.46	101.46	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172141	0.00369	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172141	0.00395	101.11	101.11	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172161	0.00316	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172161	0.00335	101.06	101.06	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172161	0.00357	101.27	101.27	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172161	0.00383	101.12	101.12	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172181	0.00308	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172181	0.00326	101.21	101.21	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172181	0.00347	101.2	101.2	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172181	0.00371	101.14	101.14	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172201	0.00285	101.41	101.41	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172201	0.003	101.39	101.39	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172201	0.00318	101.22	101.22	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172201	0.00337	101.25	101.25	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172201	0.00359	101.17	101.17	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172201	0.00385	101.1	101.1	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172221	0.00281	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172221	0.00295	101.52	101.52	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172221	0.0031	101.27	101.27	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172221	0.00328	101.4	101.4	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172221	0.00347	101.38	101.38	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595162.43	595162.4	4172221	0.0037	101.37	101.37	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172241	0.00277	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172241	0.00291	101.45	101.45	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172241	0.00305	101.45	101.45	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172241	0.00321	101.47	101.47	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172241	0.00339	101.2	101.2	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172241	0.0036	100.91	100.91	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172261	0.00276	101.37	101.37	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172261	0.0029	101.09	101.09	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172261	0.00302	101.67	101.67	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172261	0.00317	101.62	101.62	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172261	0.00334	101.14	101.14	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172281	0.00263	101.57	101.57	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172281	0.00276	101.39	101.39	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172281	0.0029	101.16	101.16	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172281	0.00302	101.95	101.95	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172281	0.00318	101.19	101.19	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172281	0.00333	101.14	101.14	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172281	0.0035	101.26	101.26	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172301	0.00263	101.66	101.66	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172301	0.00278	101.4	101.4	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172301	0.00292	101.54	101.54	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172301	0.00306	101.89	101.89	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172301	0.00321	101.51	101.51	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172301	0.00337	101.33	101.33	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172301	0.00353	101.23	101.23	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172321	0.00265	101.52	101.52	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172321	0.0028	101.28	101.28	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172321	0.00293	102.38	102.38	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172321	0.0031	101.98	101.98	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172321	0.00327	101.8	101.8	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172321	0.00344	101.36	101.36	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172321	0.00362	101.33	101.33	1.8	PERIOD	ALL	43872				
595022.43	595022.4	4172341	0.00249	101.77	101.77	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172341	0.00265	101.48	101.48	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172341	0.00282	101.33	101.33	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172341	0.00299	101.46	101.46	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172341	0.00316	101.69	101.69	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172341	0.00334	101.89	101.89	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172341	0.00354	101.43	101.43	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172341	0.00374	101.34	101.34	1.8	PERIOD	ALL	43872				
595509.24	595509.2	4172311	0.01158	100.59	100.59	1.8	PERIOD	ALL	43872				
595453.66	595453.7	4172369	0.00747	100.43	100.43	1.8	PERIOD	ALL	43872				
595568.33	595568.3	4173021	0.00125	100.77	100.77	1.8	PERIOD	ALL	43872				
595515417	595515	4172097	0.04927	100.63	100.63	1.8	PERIOD	ALL	43872				
595432.74	595432.7	4172732	0.0066	100.37	100.37	1.8	PERIOD	ALL	43872				
595271.59	595271.6	4172931	0.00186	100.47	100.47	1.8	PERIOD	ALL	43872				
595259.54	595259.5	4172957	0.00153	100.53	100.53	1.8	PERIOD	ALL	43872				
595229.53	595229.5	4172979	0.00124	100.99	100.99	1.8	PERIOD	ALL	43872				
595158.78	595158.8	4172949	0.00121	100.21	100.21	1.8	PERIOD	ALL	43872				
595424.36	595424.4	4172061	0.01989	97.49	105.13	1.8	PERIOD	ALL	43872				
595637.78	595637.8	4172034	0.06808	100.72	100.72	1.8	PERIOD	ALL	43872				
595497.98	595498	4172569	0.02236	100.51	100.51	1.8	PERIOD	ALL	43872				
595440.32	595440.3	4172696	0.00771	100.43	100.43	1.8	PERIOD	ALL	43872				
595531.74	595531.7	4172736	0.00413	100.51	100.51	1.8	PERIOD	ALL	43872				
595503.43	595503.4	4172797	0.00318	99.9	99.9	1.8	PERIOD	ALL	43872				
595293.61	595293.6	4172707	0.00859	100.17	100.17	1.8	PERIOD	ALL	43872				
595216.89	595216.9	4172907	0.00304	100.39	100.39	1.8	PERIOD	ALL	43872				
**	CONCUNIT ug/m^3												
**	DEPUNIT g/m^2												

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*          AERMOD   (          18081):  FULL      BUILDOUT OPERATIOI ANNUAL   PM2.5     ########
*          AERMET   (          14134):     8:56:27
*          MODELING OPTIONS    USED:    NonDFAUL CONC     FLAT     and      ELEV      FLGPOL   URBAN
*          PLOT     FILE       OF       PERIOD   VALUES   AVERAGED ACROSS          0 YEARS    FOR      SOURCE   GROUP:   ALL
*          FOR      A          TOTAL    OF                735 RECEPTORS.
*          FORMAT:  (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
XY         X        Y          AVERAGE  CONC     ZELEV    ZHILL    ZFLAG    AVE      GRP      NUM      HRS      NET      ID
*
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595574417	595574	4171743	0.00082	97.81	101.44	1.8	PERIOD	ALL	43872				
595594417	595594	4171743	0.00081	96.06	101.44	1.8	PERIOD	ALL	43872				
595614417	595614	4171743	0.00082	97.41	101.18	1.8	PERIOD	ALL	43872				
595634417	595634	4171743	0.00083	99.77	101.06	1.8	PERIOD	ALL	43872				
595654417	595654	4171743	0.00084	96.05	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171743	0.00086	95.92	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171743	0.00088	99.12	101.14	1.8	PERIOD	ALL	43872				
595534417	595534	4171763	0.00088	99.54	101.43	1.8	PERIOD	ALL	43872				
595554417	595554	4171763	0.00088	101.29	101.37	1.8	PERIOD	ALL	43872				
595574417	595574	4171763	0.00088	96.99	101.52	1.8	PERIOD	ALL	43872				
595594417	595594	4171763	0.00088	96.2	101.52	1.8	PERIOD	ALL	43872				
595614417	595614	4171763	0.0009	98.89	101.23	1.8	PERIOD	ALL	43872				
595634417	595634	4171763	0.00091	98.38	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171763	0.00092	96.28	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171763	0.00094	96.19	101.17	1.8	PERIOD	ALL	43872				
595694417	595694	4171763	0.00096	100.58	100.58	1.8	PERIOD	ALL	43872				
595714417	595714	4171763	0.001	100.64	100.64	1.8	PERIOD	ALL	43872				
595734417	595734	4171763	0.00104	98.51	101.14	1.8	PERIOD	ALL	43872				
595754417	595754	4171763	0.00108	99.31	99.31	1.8	PERIOD	ALL	43872				
595534417	595534	4171783	0.00096	101.02	101.47	1.8	PERIOD	ALL	43872				
595554417	595554	4171783	0.00096	100.91	100.91	1.8	PERIOD	ALL	43872				
595574417	595574	4171783	0.00096	100.49	100.49	1.8	PERIOD	ALL	43872				
595594417	595594	4171783	0.00096	101.03	101.24	1.8	PERIOD	ALL	43872				
595614417	595614	4171783	0.00097	101.08	101.08	1.8	PERIOD	ALL	43872				
595634417	595634	4171783	0.00099	98.78	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171783	0.00101	96.81	101.23	1.8	PERIOD	ALL	43872				
595674417	595674	4171783	0.00104	96.9	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171783	0.00106	101.09	101.09	1.8	PERIOD	ALL	43872				
595714417	595714	4171783	0.00111	98.99	101.14	1.8	PERIOD	ALL	43872				
595734417	595734	4171783	0.00116	99.01	99.01	1.8	PERIOD	ALL	43872				
595754417	595754	4171783	0.0012	99.75	99.75	1.8	PERIOD	ALL	43872				
595774417	595774	4171783	0.00125	99.74	99.74	1.8	PERIOD	ALL	43872				
595534417	595534	4171803	0.00105	101.23	101.23	1.8	PERIOD	ALL	43872				
595554417	595554	4171803	0.00105	101.24	101.45	1.8	PERIOD	ALL	43872				
595574417	595574	4171803	0.00106	97.44	101.54	1.8	PERIOD	ALL	43872				
595594417	595594	4171803	0.00106	97.57	101.3	1.8	PERIOD	ALL	43872				
595614417	595614	4171803	0.00108	97.82	101.24	1.8	PERIOD	ALL	43872				
595634417	595634	4171803	0.0011	98.75	101.23	1.8	PERIOD	ALL	43872				
595654417	595654	4171803	0.00111	100.24	100.24	1.8	PERIOD	ALL	43872				
595674417	595674	4171803	0.00114	100.72	101.14	1.8	PERIOD	ALL	43872				
595694417	595694	4171803	0.00118	101.01	101.01	1.8	PERIOD	ALL	43872				
595714417	595714	4171803	0.00124	97.43	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171803	0.00129	99.3	99.3	1.8	PERIOD	ALL	43872				
595754417	595754	4171803	0.00134	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4171823	0.00118	99.6	101.28	1.8	PERIOD	ALL	43872				
595534417	595534	4171823	0.00116	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171823	0.00116	100.86	101.53	1.8	PERIOD	ALL	43872				
595574417	595574	4171823	0.00116	95.57	101.66	1.8	PERIOD	ALL	43872				
595594417	595594	4171823	0.00117	95.8	101.66	1.8	PERIOD	ALL	43872				
595614417	595614	4171823	0.00119	97.3	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171823	0.00121	97.25	101.43	1.8	PERIOD	ALL	43872				
595654417	595654	4171823	0.00125	97.4	101.18	1.8	PERIOD	ALL	43872				
595674417	595674	4171823	0.00129	99	101.18	1.8	PERIOD	ALL	43872				
595694417	595694	4171823	0.00133	100.83	100.83	1.8	PERIOD	ALL	43872				
595714417	595714	4171823	0.0014	97.63	101.18	1.8	PERIOD	ALL	43872				
595734417	595734	4171823	0.00146	99.32	99.32	1.8	PERIOD	ALL	43872				
595754417	595754	4171823	0.00152	99.75	99.75	1.8	PERIOD	ALL	43872				
595514417	595514	4171843	0.00131	100.28	101.23	1.8	PERIOD	ALL	43872				
595534417	595534	4171843	0.0013	101.27	101.27	1.8	PERIOD	ALL	43872				
595554417	595554	4171843	0.00129	101.27	101.27	1.8	PERIOD	ALL	43872				
595574417	595574	4171843	0.00131	97.82	101.61	1.8	PERIOD	ALL	43872				
595594417	595594	4171843	0.0013	95.87	101.8	1.8	PERIOD	ALL	43872				
595614417	595614	4171843	0.00133	97.52	101.66	1.8	PERIOD	ALL	43872				
595634417	595634	4171843	0.00136	97.4	101.66	1.8	PERIOD	ALL	43872				
595654417	595654	4171843	0.00141	97.51	101.6	1.8	PERIOD	ALL	43872				
595674417	595674	4171843	0.00145	100.34	100.89	1.8	PERIOD	ALL	43872				
595694417	595694	4171843	0.00152	100.08	100.91	1.8	PERIOD	ALL	43872				
595714417	595714	4171843	0.0016	98.47	100.91	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595734417	595734	4171843	0.00166	99.46	99.46	1.8	PERIOD	ALL	43872				
595754417	595754	4171843	0.00173	99.53	99.53	1.8	PERIOD	ALL	43872				
595514417	595514	4171863	0.00147	100.93	100.93	1.8	PERIOD	ALL	43872				
595534417	595534	4171863	0.00146	101.26	101.26	1.8	PERIOD	ALL	43872				
595554417	595554	4171863	0.00146	101.28	101.28	1.8	PERIOD	ALL	43872				
595574417	595574	4171863	0.00145	101.38	101.38	1.8	PERIOD	ALL	43872				
595594417	595594	4171863	0.00146	101.46	101.46	1.8	PERIOD	ALL	43872				
595614417	595614	4171863	0.00148	101.55	101.55	1.8	PERIOD	ALL	43872				
595634417	595634	4171863	0.00154	100.2	101.6	1.8	PERIOD	ALL	43872				
595654417	595654	4171863	0.00161	97.64	101.68	1.8	PERIOD	ALL	43872				
595674417	595674	4171863	0.00166	100.92	100.92	1.8	PERIOD	ALL	43872				
595694417	595694	4171863	0.00176	99.01	101.1	1.8	PERIOD	ALL	43872				
595714417	595714	4171863	0.00184	99.23	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171863	0.00191	99.62	100.86	1.8	PERIOD	ALL	43872				
595754417	595754	4171863	0.00199	99.5	99.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171863	0.00207	99.38	99.38	1.8	PERIOD	ALL	43872				
595794417	595794	4171863	0.00213	99.11	99.73	1.8	PERIOD	ALL	43872				
595814417	595814	4171863	0.00219	99.19	99.72	1.8	PERIOD	ALL	43872				
595514417	595514	4171883	0.00168	100.6	100.6	1.8	PERIOD	ALL	43872				
595534417	595534	4171883	0.00167	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4171883	0.00166	101.08	101.08	1.8	PERIOD	ALL	43872				
595574417	595574	4171883	0.00166	101.55	101.55	1.8	PERIOD	ALL	43872				
595594417	595594	4171883	0.00167	101.55	101.55	1.8	PERIOD	ALL	43872				
595614417	595614	4171883	0.0017	101.64	101.64	1.8	PERIOD	ALL	43872				
595634417	595634	4171883	0.00175	101.55	101.55	1.8	PERIOD	ALL	43872				
595654417	595654	4171883	0.00184	100.36	101.37	1.8	PERIOD	ALL	43872				
595674417	595674	4171883	0.00192	100.97	100.97	1.8	PERIOD	ALL	43872				
595694417	595694	4171883	0.00204	99.19	100.88	1.8	PERIOD	ALL	43872				
595714417	595714	4171883	0.00214	98.97	100.86	1.8	PERIOD	ALL	43872				
595734417	595734	4171883	0.00222	99.35	99.35	1.8	PERIOD	ALL	43872				
595754417	595754	4171883	0.00231	99.53	99.53	1.8	PERIOD	ALL	43872				
595774417	595774	4171883	0.00238	99.4	99.4	1.8	PERIOD	ALL	43872				
595794417	595794	4171883	0.00244	99.66	99.66	1.8	PERIOD	ALL	43872				
595814417	595814	4171883	0.0025	99.07	99.07	1.8	PERIOD	ALL	43872				
595514417	595514	4171903	0.00193	101.04	101.04	1.8	PERIOD	ALL	43872				
595534417	595534	4171903	0.00192	101.38	101.38	1.8	PERIOD	ALL	43872				
595554417	595554	4171903	0.00192	101.3	101.3	1.8	PERIOD	ALL	43872				
595574417	595574	4171903	0.00193	100.94	100.94	1.8	PERIOD	ALL	43872				
595594417	595594	4171903	0.00195	101.02	101.02	1.8	PERIOD	ALL	43872				
595614417	595614	4171903	0.00199	101.05	101.05	1.8	PERIOD	ALL	43872				
595634417	595634	4171903	0.00205	101.56	101.56	1.8	PERIOD	ALL	43872				
595654417	595654	4171903	0.00216	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171903	0.00227	100.79	100.79	1.8	PERIOD	ALL	43872				
595694417	595694	4171903	0.00239	100.26	100.26	1.8	PERIOD	ALL	43872				
595714417	595714	4171903	0.00251	97.48	100.71	1.8	PERIOD	ALL	43872				
595734417	595734	4171903	0.00261	99.33	99.33	1.8	PERIOD	ALL	43872				
595754417	595754	4171903	0.0027	98.86	99.66	1.8	PERIOD	ALL	43872				
595774417	595774	4171903	0.00278	98.61	98.61	1.8	PERIOD	ALL	43872				
595794417	595794	4171903	0.00283	98.62	98.62	1.8	PERIOD	ALL	43872				
595814417	595814	4171903	0.00286	98.89	98.89	1.8	PERIOD	ALL	43872				
595534417	595534	4171923	0.00225	101.21	101.21	1.8	PERIOD	ALL	43872				
595554417	595554	4171923	0.00225	101.31	101.31	1.8	PERIOD	ALL	43872				
595574417	595574	4171923	0.00227	101.25	101.25	1.8	PERIOD	ALL	43872				
595594417	595594	4171923	0.00231	101.13	101.13	1.8	PERIOD	ALL	43872				
595614417	595614	4171923	0.00238	100.94	100.94	1.8	PERIOD	ALL	43872				
595634417	595634	4171923	0.00248	100.89	100.89	1.8	PERIOD	ALL	43872				
595654417	595654	4171923	0.0026	100.97	100.97	1.8	PERIOD	ALL	43872				
595674417	595674	4171923	0.00274	100.68	100.68	1.8	PERIOD	ALL	43872				
595694417	595694	4171923	0.00286	100.64	100.64	1.8	PERIOD	ALL	43872				
595754417	595754	4171923	0.00319	98.09	100.5	1.8	PERIOD	ALL	43872				
595774417	595774	4171923	0.00325	98.36	98.36	1.8	PERIOD	ALL	43872				
595794417	595794	4171923	0.00328	98.59	98.59	1.8	PERIOD	ALL	43872				
595814417	595814	4171923	0.00328	98.67	98.67	1.8	PERIOD	ALL	43872				
595534417	595534	4171943	0.00269	100.87	100.87	1.8	PERIOD	ALL	43872				
595554417	595554	4171943	0.0027	101.23	101.23	1.8	PERIOD	ALL	43872				
595574417	595574	4171943	0.00274	101.2	101.2	1.8	PERIOD	ALL	43872				
595594417	595594	4171943	0.00281	101.19	101.19	1.8	PERIOD	ALL	43872				
595614417	595614	4171943	0.00293	101.09	101.09	1.8	PERIOD	ALL	43872				
595634417	595634	4171943	0.00308	100.97	100.97	1.8	PERIOD	ALL	43872				
595654417	595654	4171943	0.00323	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171943	0.00337	100.66	100.66	1.8	PERIOD	ALL	43872				
595694417	595694	4171943	0.00349	100.51	100.51	1.8	PERIOD	ALL	43872				
595554417	595554	4171963	0.0033	100.97	100.97	1.8	PERIOD	ALL	43872				
595574417	595574	4171963	0.00338	101.11	101.11	1.8	PERIOD	ALL	43872				
595594417	595594	4171963	0.00354	101.05	101.05	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595614417	595614	4171963	0.00377	101.02	101.02	1.8	PERIOD	ALL	43872				
595634417	595634	4171963	0.004	100.84	100.84	1.8	PERIOD	ALL	43872				
595654417	595654	4171963	0.00416	100.92	100.92	1.8	PERIOD	ALL	43872				
595674417	595674	4171963	0.00426	100.84	100.84	1.8	PERIOD	ALL	43872				
595574417	595574	4171983	0.00428	100.92	100.92	1.8	PERIOD	ALL	43872				
595074417	595074	4172423	0.0035	101.37	101.37	1.8	PERIOD	ALL	43872				
595094417	595094	4172423	0.00377	101.32	101.32	1.8	PERIOD	ALL	43872				
595074417	595074	4172443	0.00348	101.51	101.51	1.8	PERIOD	ALL	43872				
595094417	595094	4172443	0.00374	101.39	101.39	1.8	PERIOD	ALL	43872				
595114417	595114	4172443	0.00404	101.38	101.38	1.8	PERIOD	ALL	43872				
595134417	595134	4172443	0.0044	101.3	101.3	1.8	PERIOD	ALL	43872				
595054417	595054	4172463	0.00323	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172463	0.00346	101.44	101.44	1.8	PERIOD	ALL	43872				
595094417	595094	4172463	0.00372	101.45	101.45	1.8	PERIOD	ALL	43872				
595114417	595114	4172463	0.00402	101.44	101.44	1.8	PERIOD	ALL	43872				
595054417	595054	4172483	0.00315	102.88	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172483	0.00345	101.5	103.72	1.8	PERIOD	ALL	43872				
595094417	595094	4172483	0.00371	101.42	101.42	1.8	PERIOD	ALL	43872				
595114417	595114	4172483	0.004	101.42	101.42	1.8	PERIOD	ALL	43872				
595034417	595034	4172503	0.00303	101.51	101.51	1.8	PERIOD	ALL	43872				
595054417	595054	4172503	0.00322	101.99	103.72	1.8	PERIOD	ALL	43872				
595074417	595074	4172503	0.00344	101.81	101.81	1.8	PERIOD	ALL	43872				
595094417	595094	4172503	0.0037	101.61	101.61	1.8	PERIOD	ALL	43872				
595114417	595114	4172503	0.00399	101.25	101.25	1.8	PERIOD	ALL	43872				
595034417	595034	4172523	0.00304	101.52	101.52	1.8	PERIOD	ALL	43872				
595054417	595054	4172523	0.00324	101.41	101.41	1.8	PERIOD	ALL	43872				
595074417	595074	4172523	0.00347	101.32	101.32	1.8	PERIOD	ALL	43872				
595094417	595094	4172523	0.00371	101.69	101.69	1.8	PERIOD	ALL	43872				
595034417	595034	4172543	0.00306	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172543	0.00327	101.38	101.38	1.8	PERIOD	ALL	43872				
595074417	595074	4172543	0.0035	101.42	101.42	1.8	PERIOD	ALL	43872				
595094417	595094	4172543	0.00377	101.27	101.27	1.8	PERIOD	ALL	43872				
595014417	595014	4172563	0.0029	101.4	101.4	1.8	PERIOD	ALL	43872				
595034417	595034	4172563	0.0031	101.46	101.46	1.8	PERIOD	ALL	43872				
595054417	595054	4172563	0.00332	101.48	101.48	1.8	PERIOD	ALL	43872				
595074417	595074	4172563	0.00357	101.58	101.58	1.8	PERIOD	ALL	43872				
595094417	595094	4172563	0.00386	101.36	101.36	1.8	PERIOD	ALL	43872				
595014417	595014	4172583	0.00293	101.37	101.37	1.8	PERIOD	ALL	43872				
595034417	595034	4172583	0.00315	101.56	101.56	1.8	PERIOD	ALL	43872				
595054417	595054	4172583	0.0034	101.5	101.5	1.8	PERIOD	ALL	43872				
595074417	595074	4172583	0.00367	101.6	101.6	1.8	PERIOD	ALL	43872				
595034417	595034	4172603	0.00322	101.28	101.28	1.8	PERIOD	ALL	43872				
595054417	595054	4172603	0.00349	101.45	101.45	1.8	PERIOD	ALL	43872				
595074417	595074	4172603	0.0038	101.45	101.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172643	0.0086	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172643	0.00817	100.68	100.68	1.8	PERIOD	ALL	43872				
595574417	595574	4172643	0.00772	100.98	100.98	1.8	PERIOD	ALL	43872				
595534417	595534	4172663	0.0077	100.7	100.7	1.8	PERIOD	ALL	43872				
595554417	595554	4172663	0.00733	100.77	100.77	1.8	PERIOD	ALL	43872				
595574417	595574	4172663	0.00695	100.96	100.96	1.8	PERIOD	ALL	43872				
595534417	595534	4172683	0.007	100.64	100.64	1.8	PERIOD	ALL	43872				
595554417	595554	4172683	0.00665	100.72	100.72	1.8	PERIOD	ALL	43872				
595574417	595574	4172683	0.00632	100.77	100.77	1.8	PERIOD	ALL	43872				
595294417	595294	4172743	0.01829	99.98	99.98	1.8	PERIOD	ALL	43872				
595314417	595314	4172743	0.016	100.38	100.38	1.8	PERIOD	ALL	43872				
595334417	595334	4172743	0.01401	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172743	0.0054	100.34	100.34	1.8	PERIOD	ALL	43872				
595294417	595294	4172763	0.01513	99.71	99.71	1.8	PERIOD	ALL	43872				
595314417	595314	4172763	0.01384	100.29	100.29	1.8	PERIOD	ALL	43872				
595334417	595334	4172763	0.01232	100.28	100.28	1.8	PERIOD	ALL	43872				
595354417	595354	4172763	0.01118	99.74	99.74	1.8	PERIOD	ALL	43872				
595374417	595374	4172763	0.01028	100.4	100.4	1.8	PERIOD	ALL	43872				
595534417	595534	4172763	0.00497	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172763	0.00473	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172763	0.00451	100.45	100.45	1.8	PERIOD	ALL	43872				
594934417	594934	4172783	0.00175	101.4	101.4	1.8	PERIOD	ALL	43872				
594954417	594954	4172783	0.00192	102.11	102.11	1.8	PERIOD	ALL	43872				
594974417	594974	4172783	0.00214	102.15	102.15	1.8	PERIOD	ALL	43872				
595274417	595274	4172783	0.01703	99.65	99.65	1.8	PERIOD	ALL	43872				
595354417	595354	4172783	0.00998	100.44	100.44	1.8	PERIOD	ALL	43872				
595374417	595374	4172783	0.00892	100.72	100.72	1.8	PERIOD	ALL	43872				
595394417	595394	4172783	0.00805	100.71	100.71	1.8	PERIOD	ALL	43872				
595414417	595414	4172783	0.00725	100.6	100.6	1.8	PERIOD	ALL	43872				
595434417	595434	4172783	0.00656	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4172783	0.00486	100.26	100.26	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595534417	595534	4172783	0.0046	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172783	0.00437	100.43	100.43	1.8	PERIOD	ALL	43872				
595574417	595574	4172783	0.00418	100.28	100.28	1.8	PERIOD	ALL	43872				
595594417	595594	4172783	0.00399	100.51	100.51	1.8	PERIOD	ALL	43872				
595614417	595614	4172783	0.00382	100.48	100.48	1.8	PERIOD	ALL	43872				
595634417	595634	4172783	0.00366	100.67	100.67	1.8	PERIOD	ALL	43872				
594894417	594894	4172803	0.00134	102.16	102.16	1.8	PERIOD	ALL	43872				
594914417	594914	4172803	0.00146	102.17	102.17	1.8	PERIOD	ALL	43872				
594934417	594934	4172803	0.00161	101.92	101.92	1.8	PERIOD	ALL	43872				
594954417	594954	4172803	0.00178	102.04	102.04	1.8	PERIOD	ALL	43872				
594974417	594974	4172803	0.00198	101.95	101.95	1.8	PERIOD	ALL	43872				
595274417	595274	4172803	0.02307	100.01	100.01	1.8	PERIOD	ALL	43872				
595294417	595294	4172803	0.01656	100.3	100.3	1.8	PERIOD	ALL	43872				
595314417	595314	4172803	0.01294	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172803	0.0091	100.25	100.25	1.8	PERIOD	ALL	43872				
595374417	595374	4172803	0.00801	100.6	100.6	1.8	PERIOD	ALL	43872				
595394417	595394	4172803	0.00718	100.74	100.74	1.8	PERIOD	ALL	43872				
595414417	595414	4172803	0.00651	100.67	100.67	1.8	PERIOD	ALL	43872				
595434417	595434	4172803	0.00594	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172803	0.00548	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4172803	0.00509	100.41	100.41	1.8	PERIOD	ALL	43872				
595534417	595534	4172803	0.00426	100.13	100.13	1.8	PERIOD	ALL	43872				
595554417	595554	4172803	0.00405	100.34	100.34	1.8	PERIOD	ALL	43872				
595574417	595574	4172803	0.00387	100.23	100.23	1.8	PERIOD	ALL	43872				
595594417	595594	4172803	0.00371	100.53	100.53	1.8	PERIOD	ALL	43872				
595614417	595614	4172803	0.00355	100.44	100.44	1.8	PERIOD	ALL	43872				
595634417	595634	4172803	0.00341	100.46	100.46	1.8	PERIOD	ALL	43872				
595654417	595654	4172803	0.00327	100.59	100.59	1.8	PERIOD	ALL	43872				
595674417	595674	4172803	0.00314	100.79	100.79	1.8	PERIOD	ALL	43872				
594874417	594874	4172823	0.0011	102.62	102.62	1.8	PERIOD	ALL	43872				
594894417	594894	4172823	0.00121	102.35	102.35	1.8	PERIOD	ALL	43872				
594914417	594914	4172823	0.00132	102.14	102.14	1.8	PERIOD	ALL	43872				
594934417	594934	4172823	0.00145	102.01	102.01	1.8	PERIOD	ALL	43872				
594954417	594954	4172823	0.0016	102.05	102.05	1.8	PERIOD	ALL	43872				
595254417	595254	4172823	0.04834	100.08	100.08	1.8	PERIOD	ALL	43872				
595274417	595274	4172823	0.02506	100.22	100.22	1.8	PERIOD	ALL	43872				
595294417	595294	4172823	0.01626	100.3	100.3	1.8	PERIOD	ALL	43872				
595334417	595334	4172823	0.00968	100	100	1.8	PERIOD	ALL	43872				
595354417	595354	4172823	0.00818	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4172823	0.00717	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172823	0.00643	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172823	0.00585	100.72	100.72	1.8	PERIOD	ALL	43872				
595434417	595434	4172823	0.00538	100.7	100.7	1.8	PERIOD	ALL	43872				
595454417	595454	4172823	0.005	100.7	100.7	1.8	PERIOD	ALL	43872				
595474417	595474	4172823	0.00467	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172823	0.0044	100.6	100.6	1.8	PERIOD	ALL	43872				
595514417	595514	4172823	0.00416	100.46	100.46	1.8	PERIOD	ALL	43872				
595534417	595534	4172823	0.00395	100.26	100.26	1.8	PERIOD	ALL	43872				
595574417	595574	4172823	0.0036	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172823	0.00345	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172823	0.00331	100.3	100.3	1.8	PERIOD	ALL	43872				
595634417	595634	4172823	0.00318	100.44	100.44	1.8	PERIOD	ALL	43872				
595654417	595654	4172823	0.00306	100.49	100.49	1.8	PERIOD	ALL	43872				
595674417	595674	4172823	0.00294	100.62	103.26	1.8	PERIOD	ALL	43872				
594874417	594874	4172843	0.00101	102.26	102.26	1.8	PERIOD	ALL	43872				
594894417	594894	4172843	0.00108	102.58	102.58	1.8	PERIOD	ALL	43872				
594914417	594914	4172843	0.00118	102.24	102.24	1.8	PERIOD	ALL	43872				
594934417	594934	4172843	0.00129	102.03	102.03	1.8	PERIOD	ALL	43872				
594954417	594954	4172843	0.00142	102.09	102.09	1.8	PERIOD	ALL	43872				
595254417	595254	4172843	0.03511	100.26	100.26	1.8	PERIOD	ALL	43872				
595274417	595274	4172843	0.02072	100.08	100.08	1.8	PERIOD	ALL	43872				
595294417	595294	4172843	0.01397	100.1	100.1	1.8	PERIOD	ALL	43872				
595334417	595334	4172843	0.00847	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172843	0.0072	100.33	100.33	1.8	PERIOD	ALL	43872				
595374417	595374	4172843	0.00634	100.38	100.38	1.8	PERIOD	ALL	43872				
595394417	595394	4172843	0.00572	100.49	100.49	1.8	PERIOD	ALL	43872				
595414417	595414	4172843	0.00525	100.47	100.47	1.8	PERIOD	ALL	43872				
595434417	595434	4172843	0.00486	100.54	100.54	1.8	PERIOD	ALL	43872				
595454417	595454	4172843	0.00455	100.52	100.52	1.8	PERIOD	ALL	43872				
595474417	595474	4172843	0.00428	100.76	100.76	1.8	PERIOD	ALL	43872				
595494417	595494	4172843	0.00405	100.63	100.63	1.8	PERIOD	ALL	43872				
595514417	595514	4172843	0.00385	100.5	100.5	1.8	PERIOD	ALL	43872				
595534417	595534	4172843	0.00366	100.56	100.56	1.8	PERIOD	ALL	43872				
595554417	595554	4172843	0.0035	100.48	100.48	1.8	PERIOD	ALL	43872				
595574417	595574	4172843	0.00336	100.2	100.2	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595634417	595634	4172843	0.00297	100.47	100.47	1.8	PERIOD	ALL	43872				
595654417	595654	4172843	0.00286	100.55	100.55	1.8	PERIOD	ALL	43872				
595674417	595674	4172843	0.00275	100.74	103.38	1.8	PERIOD	ALL	43872				
594854417	594854	4172863	0.00086	102.28	102.28	1.8	PERIOD	ALL	43872				
594874417	594874	4172863	0.00092	102.02	102.02	1.8	PERIOD	ALL	43872				
594894417	594894	4172863	0.00097	102.5	102.5	1.8	PERIOD	ALL	43872				
594914417	594914	4172863	0.00104	102.54	102.54	1.8	PERIOD	ALL	43872				
594934417	594934	4172863	0.00115	102.11	102.11	1.8	PERIOD	ALL	43872				
595234417	595234	4172863	0.01806	100.45	100.45	1.8	PERIOD	ALL	43872				
595254417	595254	4172863	0.02086	100.52	100.52	1.8	PERIOD	ALL	43872				
595274417	595274	4172863	0.0148	100.51	100.51	1.8	PERIOD	ALL	43872				
595294417	595294	4172863	0.01109	99.89	99.89	1.8	PERIOD	ALL	43872				
595314417	595314	4172863	0.00873	99.89	99.89	1.8	PERIOD	ALL	43872				
595334417	595334	4172863	0.00724	100.11	100.11	1.8	PERIOD	ALL	43872				
595354417	595354	4172863	0.00625	100.36	100.36	1.8	PERIOD	ALL	43872				
595374417	595374	4172863	0.00557	100.26	100.26	1.8	PERIOD	ALL	43872				
595394417	595394	4172863	0.00507	100.54	100.54	1.8	PERIOD	ALL	43872				
595414417	595414	4172863	0.00469	100.48	100.48	1.8	PERIOD	ALL	43872				
595434417	595434	4172863	0.00438	100.43	100.43	1.8	PERIOD	ALL	43872				
595454417	595454	4172863	0.00413	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172863	0.00391	100.32	100.32	1.8	PERIOD	ALL	43872				
595494417	595494	4172863	0.00372	100.36	100.36	1.8	PERIOD	ALL	43872				
595514417	595514	4172863	0.00355	100.45	100.45	1.8	PERIOD	ALL	43872				
595534417	595534	4172863	0.00339	100.66	100.66	1.8	PERIOD	ALL	43872				
595554417	595554	4172863	0.00325	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4172863	0.00313	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172863	0.00301	99.98	99.98	1.8	PERIOD	ALL	43872				
595614417	595614	4172863	0.0029	99.8	99.8	1.8	PERIOD	ALL	43872				
594854417	594854	4172883	0.00077	102.58	102.58	1.8	PERIOD	ALL	43872				
594874417	594874	4172883	0.00082	102.6	102.6	1.8	PERIOD	ALL	43872				
594894417	594894	4172883	0.00087	102.69	102.69	1.8	PERIOD	ALL	43872				
594914417	594914	4172883	0.00093	102.66	102.66	1.8	PERIOD	ALL	43872				
595234417	595234	4172883	0.0126	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172883	0.0122	100.54	100.54	1.8	PERIOD	ALL	43872				
595274417	595274	4172883	0.01033	100.54	100.54	1.8	PERIOD	ALL	43872				
595294417	595294	4172883	0.00856	100.2	100.2	1.8	PERIOD	ALL	43872				
595314417	595314	4172883	0.00715	100.36	100.36	1.8	PERIOD	ALL	43872				
595334417	595334	4172883	0.00616	100.08	100.08	1.8	PERIOD	ALL	43872				
595374417	595374	4172883	0.00491	99.88	99.88	1.8	PERIOD	ALL	43872				
595394417	595394	4172883	0.0045	100.28	100.28	1.8	PERIOD	ALL	43872				
595414417	595414	4172883	0.00419	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172883	0.00395	100.04	100.04	1.8	PERIOD	ALL	43872				
595454417	595454	4172883	0.00375	100.23	100.23	1.8	PERIOD	ALL	43872				
595474417	595474	4172883	0.00357	100.21	100.21	1.8	PERIOD	ALL	43872				
595494417	595494	4172883	0.00342	100.31	100.31	1.8	PERIOD	ALL	43872				
595514417	595514	4172883	0.00328	100.17	100.17	1.8	PERIOD	ALL	43872				
595534417	595534	4172883	0.00315	100.31	100.31	1.8	PERIOD	ALL	43872				
595554417	595554	4172883	0.00303	100.2	100.2	1.8	PERIOD	ALL	43872				
595574417	595574	4172883	0.00292	99.94	99.94	1.8	PERIOD	ALL	43872				
595594417	595594	4172883	0.00281	100.18	100.18	1.8	PERIOD	ALL	43872				
595614417	595614	4172883	0.00271	100.32	100.32	1.8	PERIOD	ALL	43872				
595634417	595634	4172883	0.00261	100.41	100.41	1.8	PERIOD	ALL	43872				
595654417	595654	4172883	0.00252	100.41	103.37	1.8	PERIOD	ALL	43872				
594854417	594854	4172903	0.0007	102.65	102.65	1.8	PERIOD	ALL	43872				
594874417	594874	4172903	0.00075	102.65	102.65	1.8	PERIOD	ALL	43872				
594894417	594894	4172903	0.00079	102.74	102.74	1.8	PERIOD	ALL	43872				
594914417	594914	4172903	0.00084	102.69	102.69	1.8	PERIOD	ALL	43872				
595234417	595234	4172903	0.00773	100.47	100.47	1.8	PERIOD	ALL	43872				
595254417	595254	4172903	0.00792	100.53	100.53	1.8	PERIOD	ALL	43872				
595274417	595274	4172903	0.00744	100.45	100.45	1.8	PERIOD	ALL	43872				
595294417	595294	4172903	0.00667	100.31	100.31	1.8	PERIOD	ALL	43872				
595314417	595314	4172903	0.00589	100.46	100.46	1.8	PERIOD	ALL	43872				
595334417	595334	4172903	0.00525	100.21	100.21	1.8	PERIOD	ALL	43872				
595354417	595354	4172903	0.00473	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4172903	0.00433	100.21	100.21	1.8	PERIOD	ALL	43872				
595414417	595414	4172903	0.00378	99.79	99.79	1.8	PERIOD	ALL	43872				
595434417	595434	4172903	0.00358	99.89	99.89	1.8	PERIOD	ALL	43872				
595454417	595454	4172903	0.00341	100.08	100.08	1.8	PERIOD	ALL	43872				
595474417	595474	4172903	0.00327	100.22	100.22	1.8	PERIOD	ALL	43872				
595494417	595494	4172903	0.00314	100.21	100.21	1.8	PERIOD	ALL	43872				
595514417	595514	4172903	0.00302	100.31	100.31	1.8	PERIOD	ALL	43872				
595534417	595534	4172903	0.00292	100.36	100.36	1.8	PERIOD	ALL	43872				
595554417	595554	4172903	0.00282	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172903	0.00272	99.89	99.89	1.8	PERIOD	ALL	43872				
595594417	595594	4172903	0.00263	100.29	100.29	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595614417	595614	4172903	0.00254	100.53	100.53	1.8	PERIOD	ALL	43872				
595634417	595634	4172903	0.00245	100.5	100.5	1.8	PERIOD	ALL	43872				
594854417	594854	4172923	0.00065	102.77	102.77	1.8	PERIOD	ALL	43872				
594874417	594874	4172923	0.00069	102.64	102.64	1.8	PERIOD	ALL	43872				
594894417	594894	4172923	0.00073	102.66	102.66	1.8	PERIOD	ALL	43872				
594914417	594914	4172923	0.00079	102.49	102.49	1.8	PERIOD	ALL	43872				
595254417	595254	4172923	0.00565	100.4	100.4	1.8	PERIOD	ALL	43872				
595274417	595274	4172923	0.00558	100.38	100.38	1.8	PERIOD	ALL	43872				
595294417	595294	4172923	0.00527	100.46	100.46	1.8	PERIOD	ALL	43872				
595314417	595314	4172923	0.00488	100.49	100.49	1.8	PERIOD	ALL	43872				
595334417	595334	4172923	0.0045	100.2	100.2	1.8	PERIOD	ALL	43872				
595354417	595354	4172923	0.00414	100.48	100.48	1.8	PERIOD	ALL	43872				
595374417	595374	4172923	0.00384	100.49	100.49	1.8	PERIOD	ALL	43872				
595394417	595394	4172923	0.0036	100.39	100.39	1.8	PERIOD	ALL	43872				
595414417	595414	4172923	0.00341	100.14	100.14	1.8	PERIOD	ALL	43872				
595474417	595474	4172923	0.003	99.91	99.91	1.8	PERIOD	ALL	43872				
595494417	595494	4172923	0.00289	100.23	100.23	1.8	PERIOD	ALL	43872				
595514417	595514	4172923	0.00279	100.34	100.34	1.8	PERIOD	ALL	43872				
595534417	595534	4172923	0.0027	100.43	100.43	1.8	PERIOD	ALL	43872				
595554417	595554	4172923	0.00262	100.04	100.04	1.8	PERIOD	ALL	43872				
595574417	595574	4172923	0.00254	100.11	100.11	1.8	PERIOD	ALL	43872				
595594417	595594	4172923	0.00246	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172923	0.00238	100.19	100.19	1.8	PERIOD	ALL	43872				
595634417	595634	4172923	0.0023	100.4	103.39	1.8	PERIOD	ALL	43872				
595314417	595314	4172943	0.00408	100.39	100.39	1.8	PERIOD	ALL	43872				
595334417	595334	4172943	0.00386	100.45	100.45	1.8	PERIOD	ALL	43872				
595354417	595354	4172943	0.00364	100.45	100.45	1.8	PERIOD	ALL	43872				
595374417	595374	4172943	0.00343	100.46	100.46	1.8	PERIOD	ALL	43872				
595394417	595394	4172943	0.00325	100.23	100.23	1.8	PERIOD	ALL	43872				
595414417	595414	4172943	0.0031	100.25	100.25	1.8	PERIOD	ALL	43872				
595434417	595434	4172943	0.00297	100.18	100.18	1.8	PERIOD	ALL	43872				
595454417	595454	4172943	0.00285	100.13	100.13	1.8	PERIOD	ALL	43872				
595514417	595514	4172943	0.00259	100.03	100.03	1.8	PERIOD	ALL	43872				
595534417	595534	4172943	0.00252	100.11	100.11	1.8	PERIOD	ALL	43872				
595554417	595554	4172943	0.00244	100.06	100.06	1.8	PERIOD	ALL	43872				
595574417	595574	4172943	0.00237	100.35	100.35	1.8	PERIOD	ALL	43872				
595594417	595594	4172943	0.0023	100.3	100.3	1.8	PERIOD	ALL	43872				
595614417	595614	4172943	0.00223	100.17	100.17	1.8	PERIOD	ALL	43872				
595634417	595634	4172943	0.00217	100.44	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172963	0.00343	100.56	100.56	1.8	PERIOD	ALL	43872				
595334417	595334	4172963	0.00333	100.25	100.25	1.8	PERIOD	ALL	43872				
595354417	595354	4172963	0.0032	100.32	100.32	1.8	PERIOD	ALL	43872				
595374417	595374	4172963	0.00306	100.34	100.34	1.8	PERIOD	ALL	43872				
595394417	595394	4172963	0.00294	100.33	100.33	1.8	PERIOD	ALL	43872				
595414417	595414	4172963	0.00282	100.34	100.34	1.8	PERIOD	ALL	43872				
595434417	595434	4172963	0.00272	100.25	100.25	1.8	PERIOD	ALL	43872				
595454417	595454	4172963	0.00263	100.28	100.28	1.8	PERIOD	ALL	43872				
595474417	595474	4172963	0.00254	100.51	100.51	1.8	PERIOD	ALL	43872				
595494417	595494	4172963	0.00247	100.29	100.29	1.8	PERIOD	ALL	43872				
595514417	595514	4172963	0.00241	100.21	100.21	1.8	PERIOD	ALL	43872				
595554417	595554	4172963	0.00228	100.17	100.17	1.8	PERIOD	ALL	43872				
595574417	595574	4172963	0.00222	100.25	100.25	1.8	PERIOD	ALL	43872				
595594417	595594	4172963	0.00216	100.29	100.29	1.8	PERIOD	ALL	43872				
595614417	595614	4172963	0.0021	100.18	103.44	1.8	PERIOD	ALL	43872				
595314417	595314	4172983	0.00293	100.55	100.55	1.8	PERIOD	ALL	43872				
595334417	595334	4172983	0.00289	100.31	100.31	1.8	PERIOD	ALL	43872				
595354417	595354	4172983	0.00282	100.27	100.27	1.8	PERIOD	ALL	43872				
595374417	595374	4172983	0.00274	100.28	100.28	1.8	PERIOD	ALL	43872				
595394417	595394	4172983	0.00266	100.2	100.2	1.8	PERIOD	ALL	43872				
595414417	595414	4172983	0.00257	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4172983	0.0025	100.19	100.19	1.8	PERIOD	ALL	43872				
595454417	595454	4172983	0.00243	100.19	100.19	1.8	PERIOD	ALL	43872				
595474417	595474	4172983	0.00236	100.46	100.46	1.8	PERIOD	ALL	43872				
595494417	595494	4172983	0.0023	100.32	100.32	1.8	PERIOD	ALL	43872				
595514417	595514	4172983	0.00224	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4172983	0.00219	100.46	100.46	1.8	PERIOD	ALL	43872				
595554417	595554	4172983	0.00213	100.33	100.33	1.8	PERIOD	ALL	43872				
595574417	595574	4172983	0.00208	100.62	100.62	1.8	PERIOD	ALL	43872				
595594417	595594	4172983	0.00203	100.58	100.58	1.8	PERIOD	ALL	43872				
595614417	595614	4172983	0.00198	100.33	103.43	1.8	PERIOD	ALL	43872				
595314417	595314	4173003	0.00254	100.23	100.23	1.8	PERIOD	ALL	43872				
595334417	595334	4173003	0.00253	100.48	100.48	1.8	PERIOD	ALL	43872				
595354417	595354	4173003	0.0025	100.39	100.39	1.8	PERIOD	ALL	43872				
595374417	595374	4173003	0.00245	100.29	100.29	1.8	PERIOD	ALL	43872				
595394417	595394	4173003	0.0024	100.31	100.31	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595414417	595414	4173003	0.00235	100.26	100.26	1.8	PERIOD	ALL	43872				
595434417	595434	4173003	0.00229	100.22	100.22	1.8	PERIOD	ALL	43872				
595454417	595454	4173003	0.00224	100.15	100.15	1.8	PERIOD	ALL	43872				
595474417	595474	4173003	0.00219	100.35	100.35	1.8	PERIOD	ALL	43872				
595494417	595494	4173003	0.00214	100.4	100.4	1.8	PERIOD	ALL	43872				
595514417	595514	4173003	0.00209	100.52	100.52	1.8	PERIOD	ALL	43872				
595534417	595534	4173003	0.00205	100.5	100.5	1.8	PERIOD	ALL	43872				
595554417	595554	4173003	0.002	100.45	100.45	1.8	PERIOD	ALL	43872				
595574417	595574	4173003	0.00195	100.8	100.8	1.8	PERIOD	ALL	43872				
595594417	595594	4173003	0.00191	100.73	100.73	1.8	PERIOD	ALL	43872				
595294417	595294	4173023	0.00219	100.68	100.68	1.8	PERIOD	ALL	43872				
595314417	595314	4173023	0.00222	100.7	100.7	1.8	PERIOD	ALL	43872				
595334417	595334	4173023	0.00223	100.49	100.49	1.8	PERIOD	ALL	43872				
595354417	595354	4173023	0.00223	100.38	100.38	1.8	PERIOD	ALL	43872				
595374417	595374	4173023	0.0022	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173023	0.00218	100.27	100.27	1.8	PERIOD	ALL	43872				
595414417	595414	4173023	0.00214	100.22	100.22	1.8	PERIOD	ALL	43872				
595434417	595434	4173023	0.00211	100.42	100.42	1.8	PERIOD	ALL	43872				
595454417	595454	4173023	0.00207	100.45	100.45	1.8	PERIOD	ALL	43872				
595474417	595474	4173023	0.00203	100.49	100.49	1.8	PERIOD	ALL	43872				
595494417	595494	4173023	0.002	100.41	100.41	1.8	PERIOD	ALL	43872				
595514417	595514	4173023	0.00196	100.53	100.53	1.8	PERIOD	ALL	43872				
595534417	595534	4173023	0.00192	100.53	100.53	1.8	PERIOD	ALL	43872				
595554417	595554	4173023	0.00188	100.59	100.59	1.8	PERIOD	ALL	43872				
595574417	595574	4173023	0.00184	100.77	100.77	1.8	PERIOD	ALL	43872				
595594417	595594	4173023	0.0018	100.64	103.48	1.8	PERIOD	ALL	43872				
595294417	595294	4173043	0.00192	100.56	100.56	1.8	PERIOD	ALL	43872				
595314417	595314	4173043	0.00196	100.62	100.62	1.8	PERIOD	ALL	43872				
595334417	595334	4173043	0.00199	100.43	100.43	1.8	PERIOD	ALL	43872				
595354417	595354	4173043	0.00199	100.37	100.37	1.8	PERIOD	ALL	43872				
595374417	595374	4173043	0.00199	100.31	100.31	1.8	PERIOD	ALL	43872				
595394417	595394	4173043	0.00198	100.26	100.26	1.8	PERIOD	ALL	43872				
595414417	595414	4173043	0.00196	100.4	100.4	1.8	PERIOD	ALL	43872				
595434417	595434	4173043	0.00194	100.52	100.52	1.8	PERIOD	ALL	43872				
595454417	595454	4173043	0.00191	100.6	100.6	1.8	PERIOD	ALL	43872				
595474417	595474	4173043	0.00189	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173043	0.00186	100.53	100.53	1.8	PERIOD	ALL	43872				
595514417	595514	4173043	0.00183	100.67	100.67	1.8	PERIOD	ALL	43872				
595534417	595534	4173043	0.0018	100.82	100.82	1.8	PERIOD	ALL	43872				
595554417	595554	4173043	0.00177	100.8	100.8	1.8	PERIOD	ALL	43872				
595574417	595574	4173043	0.00173	100.76	100.76	1.8	PERIOD	ALL	43872				
595294417	595294	4173063	0.00171	100.51	100.51	1.8	PERIOD	ALL	43872				
595314417	595314	4173063	0.00175	100.5	100.5	1.8	PERIOD	ALL	43872				
595334417	595334	4173063	0.00178	100.41	100.41	1.8	PERIOD	ALL	43872				
595354417	595354	4173063	0.0018	100.35	100.35	1.8	PERIOD	ALL	43872				
595374417	595374	4173063	0.0018	100.33	100.33	1.8	PERIOD	ALL	43872				
595394417	595394	4173063	0.0018	100.53	100.53	1.8	PERIOD	ALL	43872				
595414417	595414	4173063	0.00179	100.71	100.71	1.8	PERIOD	ALL	43872				
595434417	595434	4173063	0.00178	100.79	100.79	1.8	PERIOD	ALL	43872				
595454417	595454	4173063	0.00177	100.69	100.69	1.8	PERIOD	ALL	43872				
595474417	595474	4173063	0.00175	100.66	100.66	1.8	PERIOD	ALL	43872				
595494417	595494	4173063	0.00173	100.46	100.46	1.8	PERIOD	ALL	43872				
595514417	595514	4173063	0.00171	100.62	100.62	1.8	PERIOD	ALL	43872				
595534417	595534	4173063	0.00169	100.9	100.9	1.8	PERIOD	ALL	43872				
595554417	595554	4173063	0.00166	100.86	100.86	1.8	PERIOD	ALL	43872				
595574417	595574	4173063	0.00163	101.05	101.05	1.8	PERIOD	ALL	43872				
595354417	595354	4173083	0.00163	100.42	100.42	1.8	PERIOD	ALL	43872				
595374417	595374	4173083	0.00164	100.64	100.64	1.8	PERIOD	ALL	43872				
595394417	595394	4173083	0.00164	100.88	100.88	1.8	PERIOD	ALL	43872				
595414417	595414	4173083	0.00164	101.03	101.03	1.8	PERIOD	ALL	43872				
595434417	595434	4173083	0.00164	101.05	101.05	1.8	PERIOD	ALL	43872				
595454417	595454	4173083	0.00164	100.81	100.81	1.8	PERIOD	ALL	43872				
595474417	595474	4173083	0.00163	100.59	100.59	1.8	PERIOD	ALL	43872				
595494417	595494	4173083	0.00162	100	100	1.8	PERIOD	ALL	43872				
595514417	595514	4173083	0.00161	100.1	101.15	1.8	PERIOD	ALL	43872				
595534417	595534	4173083	0.00158	100.98	100.98	1.8	PERIOD	ALL	43872				
595554417	595554	4173083	0.00156	100.83	100.83	1.8	PERIOD	ALL	43872				
595574417	595574	4173083	0.00154	101.15	101.15	1.8	PERIOD	ALL	43872				
595334417	595334	4173103	0.00146	100.68	100.68	1.8	PERIOD	ALL	43872				
595354417	595354	4173103	0.00148	100.7	100.7	1.8	PERIOD	ALL	43872				
595374417	595374	4173103	0.0015	100.97	100.97	1.8	PERIOD	ALL	43872				
595394417	595394	4173103	0.00151	101.23	101.23	1.8	PERIOD	ALL	43872				
595414417	595414	4173103	0.00151	101.35	101.35	1.8	PERIOD	ALL	43872				
595434417	595434	4173103	0.00151	101.31	101.31	1.8	PERIOD	ALL	43872				
595454417	595454	4173103	0.00152	100.9	100.9	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595474417	595474	4173103	0.00152	100.45	100.45	1.8	PERIOD	ALL	43872				
595494417	595494	4173103	0.00151	99.96	99.96	1.8	PERIOD	ALL	43872				
595514417	595514	4173103	0.0015	101.04	101.04	1.8	PERIOD	ALL	43872				
595334417	595334	4173123	0.00133	101.04	101.04	1.8	PERIOD	ALL	43872				
595354417	595354	4173123	0.00136	101.14	101.14	1.8	PERIOD	ALL	43872				
595374417	595374	4173123	0.00137	101.35	101.35	1.8	PERIOD	ALL	43872				
595394417	595394	4173123	0.00139	101.55	101.55	1.8	PERIOD	ALL	43872				
595414417	595414	4173123	0.0014	101.55	101.55	1.8	PERIOD	ALL	43872				
595434417	595434	4173123	0.0014	101.41	101.41	1.8	PERIOD	ALL	43872				
595454417	595454	4173123	0.00141	100.91	100.91	1.8	PERIOD	ALL	43872				
595474417	595474	4173123	0.00141	100.19	100.19	1.8	PERIOD	ALL	43872				
595494417	595494	4173123	0.00141	99.99	99.99	1.8	PERIOD	ALL	43872				
595514417	595514	4173123	0.0014	101.16	101.16	1.8	PERIOD	ALL	43872				
595354417	595354	4173143	0.00125	101.45	101.45	1.8	PERIOD	ALL	43872				
595374417	595374	4173143	0.00127	101.56	101.56	1.8	PERIOD	ALL	43872				
595394417	595394	4173143	0.00128	101.52	101.52	1.8	PERIOD	ALL	43872				
595414417	595414	4173143	0.0013	100.68	101.67	1.8	PERIOD	ALL	43872				
595434417	595434	4173143	0.00131	100.68	100.68	1.8	PERIOD	ALL	43872				
595494417	595494	4173143	0.00132	101.03	101.03	1.8	PERIOD	ALL	43872				
595354417	595354	4173163	0.00116	101.34	101.34	1.8	PERIOD	ALL	43872				
595374417	595374	4173163	0.00117	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173163	0.00119	101.61	101.61	1.8	PERIOD	ALL	43872				
595414417	595414	4173163	0.0012	101.03	101.61	1.8	PERIOD	ALL	43872				
595434417	595434	4173163	0.00121	101.09	101.09	1.8	PERIOD	ALL	43872				
595374417	595374	4173183	0.00109	101.54	101.54	1.8	PERIOD	ALL	43872				
595394417	595394	4173183	0.00111	101.69	101.69	1.8	PERIOD	ALL	43872				
595414417	595414	4173183	0.00112	101.66	101.66	1.8	PERIOD	ALL	43872				
595434417	595434	4173183	0.00113	101.62	101.62	1.8	PERIOD	ALL	43872				
595203.12	595203.1	4172931	0.00424	100.67	100.67	0.5	PERIOD	ALL	43872				
595305.29	595305.3	4173022	0.00221	100.77	100.77	1.8	PERIOD	ALL	43872				
596059.85	596059.9	4172739	0.0017	99.91	99.91	0.5	PERIOD	ALL	43872				
595782.44	595782.4	4171913	0.00303	98.53	98.53	1.8	PERIOD	ALL	43872				
595790.49	595790.5	4171878	0.00234	99.65	99.65	1.8	PERIOD	ALL	43872				
595826.59	595826.6	4171700	0.0009	100.23	100.23	1.8	PERIOD	ALL	43872				
595857.85	595857.9	4171568	0.00055	100.14	100.14	1.8	PERIOD	ALL	43872				
595427.66	595427.7	4172811	0.00586	100.71	100.71	1.8	PERIOD	ALL	43872				
595616.96	595617	4172891	0.00263	100.4	100.4	1.8	PERIOD	ALL	43872				
595465.61	595465.6	4172972	0.00248	100.46	100.46	1.8	PERIOD	ALL	43872				
595413.93	595413.9	4172953	0.00295	100.29	100.29	1.8	PERIOD	ALL	43872				
595207.62	595207.6	4172858	0.02219	100.54	100.54	1.8	PERIOD	ALL	43872				
595229.35	595229.4	4172794	0.02285	100.13	100.13	1.8	PERIOD	ALL	43872				
595251.41	595251.4	4172717	0.02628	100.32	100.32	1.8	PERIOD	ALL	43872				
595276.16	595276.2	4172655	0.02286	100.2	100.2	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171791	0.00112	100.11	100.11	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171791	0.00111	100.26	100.26	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171791	0.0011	100.24	100.24	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171811	0.00123	100.36	100.36	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171811	0.00122	100.68	100.68	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171811	0.00122	99.97	99.97	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171811	0.00121	100.19	100.19	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171831	0.00136	100.59	100.59	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171831	0.00135	100.73	100.73	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171831	0.00135	100.65	100.65	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171831	0.00134	100.14	100.14	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171831	0.00133	100.04	100.04	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171851	0.00148	101.05	101.05	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171851	0.00149	100.34	100.34	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171851	0.00149	100.23	100.23	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171851	0.00148	100.17	100.17	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171851	0.00148	100.04	100.04	1.8	PERIOD	ALL	43872				
595326.24	595326.2	4171851	0.00148	99.91	99.91	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171871	0.00162	100.71	100.71	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171871	0.00163	100.49	100.49	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171871	0.00163	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171871	0.00164	100.43	100.43	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171871	0.00164	100.24	100.24	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171871	0.00164	100.03	100.03	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171891	0.00175	100.62	100.62	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171891	0.00177	100.56	100.56	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171891	0.00178	100.56	100.56	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171891	0.00179	100.42	100.42	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171891	0.0018	100.37	100.37	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171891	0.00181	100.16	100.16	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171891	0.00182	99.95	99.95	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171911	0.0019	100.75	100.75	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595206.24	595206.2	4171911	0.00192	100.77	100.77	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171911	0.00194	100.62	100.62	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171911	0.00196	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171911	0.00198	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171911	0.002	100.18	100.18	1.8	PERIOD	ALL	43872				
595306.24	595306.2	4171911	0.00202	99.82	99.82	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171931	0.00205	100.92	100.92	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171931	0.00207	100.86	100.86	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171931	0.0021	100.62	100.62	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171931	0.00212	100.67	100.67	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171931	0.00215	100.18	100.18	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171931	0.00218	100.13	100.13	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171931	0.00221	100.02	100.02	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171951	0.00224	100.84	100.84	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171951	0.00226	100.89	100.89	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171951	0.00228	100.76	100.76	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171951	0.00231	100.9	100.9	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171951	0.00235	100.36	100.36	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171951	0.00239	100.14	100.14	1.8	PERIOD	ALL	43872				
595286.24	595286.2	4171951	0.00244	99.77	107.32	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171971	0.00239	101.29	101.29	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171971	0.00243	101.33	101.33	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171971	0.00246	101.08	101.08	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171971	0.00249	100.9	100.9	1.8	PERIOD	ALL	43872				
595226.24	595226.2	4171971	0.00252	100.83	100.83	1.8	PERIOD	ALL	43872				
595246.24	595246.2	4171971	0.00257	100.1	106.99	1.8	PERIOD	ALL	43872				
595266.24	595266.2	4171971	0.00262	99.89	107.46	1.8	PERIOD	ALL	43872				
595146.24	595146.2	4171991	0.00259	101.35	101.35	1.8	PERIOD	ALL	43872				
595166.24	595166.2	4171991	0.00264	101.3	101.3	1.8	PERIOD	ALL	43872				
595186.24	595186.2	4171991	0.00269	101.06	101.06	1.8	PERIOD	ALL	43872				
595206.24	595206.2	4171991	0.00273	100.9	100.9	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171825	0.0018	99.74	99.74	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171845	0.00202	99.78	99.78	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171865	0.00227	99.69	99.69	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171865	0.00228	99.79	99.79	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171865	0.00228	99.86	99.86	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171885	0.00255	99.37	99.37	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171885	0.00256	99.45	99.45	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171885	0.00256	99.52	99.52	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171885	0.00253	99.54	99.54	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171905	0.0029	99.29	99.29	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171905	0.00289	99.02	99.02	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171905	0.00286	98.96	98.96	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171905	0.00281	99.22	99.22	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171905	0.00275	99.73	99.73	1.8	PERIOD	ALL	43872				
595832.66	595832.7	4171925	0.0033	99.44	99.44	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171925	0.00325	99.31	99.31	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171925	0.00318	99.35	99.35	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171925	0.00311	99.25	99.25	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171925	0.00302	99.22	99.22	1.8	PERIOD	ALL	43872				
595852.66	595852.7	4171945	0.00365	98.82	99.52	1.8	PERIOD	ALL	43872				
595872.66	595872.7	4171945	0.00354	99.23	99.23	1.8	PERIOD	ALL	43872				
595892.66	595892.7	4171945	0.00342	99.54	99.54	1.8	PERIOD	ALL	43872				
595912.66	595912.7	4171945	0.0033	99.69	99.69	1.8	PERIOD	ALL	43872				
595932.66	595932.7	4171945	0.00318	99.72	99.72	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172101	0.00319	101.15	101.15	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172101	0.00336	101.08	101.08	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172101	0.00356	100.79	100.79	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172121	0.00327	101.3	101.3	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172121	0.00346	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172121	0.00366	101.01	101.01	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172141	0.00315	101.31	101.31	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172141	0.00333	101.46	101.46	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172141	0.00354	101.38	101.38	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172141	0.00376	101.11	101.11	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172161	0.00321	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172161	0.00339	101.06	101.06	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172161	0.00359	101.27	101.27	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172161	0.00381	101.12	101.12	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172181	0.00324	101.25	101.25	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172181	0.00342	101.21	101.21	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172181	0.00362	101.2	101.2	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172181	0.00385	101.14	101.14	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172201	0.00311	101.41	101.41	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172201	0.00327	101.39	101.39	1.8	PERIOD	ALL	43872				

XY	X	Y	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM	HRS	NET	ID
595102.43	595102.4	4172201	0.00345	101.22	101.22	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172201	0.00364	101.25	101.25	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172201	0.00386	101.17	101.17	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172201	0.00412	101.1	101.1	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172221	0.00314	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172221	0.00329	101.52	101.52	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172221	0.00347	101.27	101.27	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172221	0.00365	101.4	101.4	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172221	0.00386	101.38	101.38	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172221	0.0041	101.37	101.37	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172241	0.00317	101.58	101.58	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172241	0.00333	101.45	101.45	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172241	0.00349	101.45	101.45	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172241	0.00368	101.47	101.47	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172241	0.00389	101.2	101.2	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172241	0.00413	100.91	100.91	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172261	0.00321	101.37	101.37	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172261	0.00337	101.09	101.09	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172261	0.00353	101.67	101.67	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172261	0.00371	101.62	101.62	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172261	0.00393	101.14	101.14	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172281	0.00309	101.57	101.57	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172281	0.00326	101.39	101.39	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172281	0.00342	101.16	101.16	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172281	0.00359	101.95	101.95	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172281	0.00379	101.19	101.19	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172281	0.004	101.14	101.14	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172281	0.00422	101.26	101.26	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172301	0.00313	101.66	101.66	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172301	0.00331	101.4	101.4	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172301	0.00348	101.54	101.54	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172301	0.00366	101.89	101.89	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172301	0.00387	101.51	101.51	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172301	0.00409	101.33	101.33	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172301	0.00434	101.23	101.23	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172321	0.00317	101.52	101.52	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172321	0.00335	101.28	101.28	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172321	0.00351	102.38	102.38	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172321	0.00374	101.98	101.98	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172321	0.00396	101.8	101.8	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172321	0.00421	101.36	101.36	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172321	0.00448	101.33	101.33	1.8	PERIOD	ALL	43872				
595022.43	595022.4	4172341	0.003	101.77	101.77	1.8	PERIOD	ALL	43872				
595042.43	595042.4	4172341	0.00319	101.48	101.48	1.8	PERIOD	ALL	43872				
595062.43	595062.4	4172341	0.00339	101.33	101.33	1.8	PERIOD	ALL	43872				
595082.43	595082.4	4172341	0.0036	101.46	101.46	1.8	PERIOD	ALL	43872				
595102.43	595102.4	4172341	0.00382	101.69	101.69	1.8	PERIOD	ALL	43872				
595122.43	595122.4	4172341	0.00405	101.89	101.89	1.8	PERIOD	ALL	43872				
595142.43	595142.4	4172341	0.00433	101.43	101.43	1.8	PERIOD	ALL	43872				
595162.43	595162.4	4172341	0.00462	101.34	101.34	1.8	PERIOD	ALL	43872				
595509.24	595509.2	4172311	0.01403	100.59	100.59	1.8	PERIOD	ALL	43872				
595453.66	595453.7	4172369	0.0314	100.43	100.43	1.8	PERIOD	ALL	43872				
595568.33	595568.3	4173021	0.00186	100.77	100.77	1.8	PERIOD	ALL	43872				
595515417	595515	4172097	0.01194	100.63	100.63	1.8	PERIOD	ALL	43872				
595432.74	595432.7	4172732	0.00878	100.37	100.37	1.8	PERIOD	ALL	43872				
595271.59	595271.6	4172931	0.00503	100.47	100.47	1.8	PERIOD	ALL	43872				
595259.54	595259.5	4172957	0.00369	100.53	100.53	1.8	PERIOD	ALL	43872				
595229.53	595229.5	4172979	0.00267	100.99	100.99	1.8	PERIOD	ALL	43872				
595158.78	595158.8	4172949	0.0024	100.21	100.21	1.8	PERIOD	ALL	43872				
595424.36	595424.4	4172061	0.00568	97.49	105.13	1.8	PERIOD	ALL	43872				
595637.78	595637.8	4172034	0.01298	100.72	100.72	1.8	PERIOD	ALL	43872				
595497.98	595498	4172569	0.02445	100.51	100.51	1.8	PERIOD	ALL	43872				
595440.32	595440.3	4172696	0.0098	100.43	100.43	1.8	PERIOD	ALL	43872				
595531.74	595531.7	4172736	0.00559	100.51	100.51	1.8	PERIOD	ALL	43872				
595503.43	595503.4	4172797	0.00474	99.9	99.9	1.8	PERIOD	ALL	43872				
595293.61	595293.6	4172707	0.04292	100.17	100.17	1.8	PERIOD	ALL	43872				
595216.89	595216.9	4172907	0.00665	100.39	100.39	1.8	PERIOD	ALL	43872				

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

HRA and Annual $PM_{2.5}$ Results

Health Risk Summary

Incremental Cancer Risk

Recetpor Type	Phase 1 Construction + Phase 1 Operation		Full Operation	
	Risk Value (in a million)	Location (UTM X, UTM Y)	Risk Value (in a million)	Location (UTM X, UTM Y)
	Net Increase Due to Project			
Offsite Residential	4.7	595852.66, 4171945.33	2.8	595162.43, 4172341.44
Offsite Worker	3.2	595254, 4172823	4.8	595254, 4172823
CSP Child	1.4	595305.29, 4173022.49	1.9	595305.29, 4173022.49
Onsite Daycare	0.4	595203.12, 4172931.43	n/a	-
Onsite Worker	2.7	595432.7, 4172731.56	2.0	595432.70,4172731.56
Significance Threshold	*10.0*		*10*	

Recetpor Type	Cumulative Risks with Project	
	Construction + Operation	Full Operation
Offsite Residential	51.5	63.7
Offsite Worker	85.1	86.7
CSP Child	64.8	65.3
Onsite Daycare	78.9	-
Onsite Worker	48.5	47.7
Significance Threshold	**100**	**100**

Incremental CHI

Recetpor Type	Phase 1 Construction		Phase 1 Operation + Phase 2 Construction		Full Operation	
	CHI	Location (UTM X, UTM Y)	CHI	Location (UTM X, UTM Y)	CHI	Location (UTM X, UTM Y)
	Net Increase Due to Project					
Offsite Residential	0.0119	595162.43, 4172341.44	0.0286	595266.24, 4171970.65	0.0070	595162.43, 4172341.44
Offsite Worker	0.0462	595534, 4172643	0.2575	595294, 4172743	0.1803	595374, 4172763
CSP Child	0.0012	595305.29, 4173022.49	0.0382	595305.29, 4173022.49	0.0066	595305.29, 4173022.49
Onsite Daycare	0.0010	595203.12, 4172931.43	0.1849	595203.12, 4172931.43	n/a	-
Onsite Worker	0.0597	595432.7, 4172731.56	0.3704	595432.7, 4172731.56	0.3211	595432.70,4172731.56
Significance Threshold	*1.0*		*1.0*		*1.0*	

Recetpor Type	Cumulative Chronic Impacts with Project		
	Phase 1 Construction	Phase 1 Operation + Phase 2 Construction	Full Operation
Offsite Residential	0.05	0.06	0.04
Offsite Worker	0.07	0.30	0.22
CSP Child	0.04	0.07	0.04
Onsite Daycare	0.05	0.23	-
Onsite Worker	0.09	0.40	0.35
Significance Threshold	**10**	**10**	**10**

Incremental PM2.5 Summary

Recetpor Type	Phase 1 Construction		Phase 1 Operation + Phase 2 Construction		Full Operation	
	PM2.5 (ug/m^3)	Location (UTM X, UTM Y)	PM2.5 (ug/m^3)	Location (UTM X, UTM Y)	PM2.5 (ug/m^3)	Location (UTM X, UTM Y)
	Net Increase Due to Project					
Offsite Residential	0.0553	595162.43,4172341.44	0.0108	595852.66, 4171945.33	0.00462	595162.43, 4172341.44
Offsite Worker	0.2152	595534,4172643	0.0284	595274,4172783	0.04834	595254, 4172823
CSP Child	0.0057	595305.29, 4173022.49	0.0045	595305.29, 4173022.49	0.00221	595305.29, 4173022.49
Onsite Daycare	0.0048	595203.12, 4172931.43	0.0211	595203.12, 4172931.43		
Onsite Worker	0.2784	595432.7,4172731.56	0.0121	595432.7,4172731.56	0.00878	595432.70,4172731.56
Significance Threshold	**0.30**		**0.30**		**0.30**	

	Cumulative PM2.5 Impacts with Project		
Recetpor Type	**Phase 1 Construction**	**Phase 1 Operation + Phase 2 Construction**	**Full Operation**
Offsite Residential	0.31	0.49	0.26
Offsite Worker	0.36	0.31	0.40
CSP Child	0.39	0.38	0.38
Onsite Daycare	0.35	0.36	-
Onsite Worker	0.43	0.16	0.16
Significance Threshold	**0.8**	**0.8**	**0.8**

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APPENDIX C.2: AIR QUALITY ANALYSIS

Construction Emissions

Unmitigated Construction Emissions Summary
Unmitigated CalEEMod Output – Construction
Mitigated Construction Emissions Summary
Mitigated CalEEMod Output – Construction
Construction Haul Truck Idling Emissions

Operational Emissions

Operational Emissions Summary
CalEEMod Output – Phase 1 (2021)
CalEEMod Output – Phase 1 (2030)
CalEEMod Output – Full-Buildout (2031)
Project Trip Counts
Generator Emissions
Vehicle Emissions
Gas Station Emissions
Transportation Refrigeration Unit Emissions

Existing Operational Emissions

Existing General Light Industry (27,550SF) (2018)-CalEEMod Output
Existing Conditions Modeling (2018)-CalEEMod Output

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Construction Emissions

Unmitigated Construction Emissions Summary

Total Annual Emissions by Source (tons per year)

Year	CalEEMod Category	Source	ROG	NOX	PM10 Exh	PM2.5 Ex
2020	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2020	Off-Road	Offroad Equipment	0.6005	5.9681	0.2863	0.2671
2020	Paving	Offroad Equipment	0.0314	0.0000	0.0000	0.0000
2020	Archit. Coating	Offroad Equipment	0.9109	0.0000	0.0000	0.0000
2020	Hauling	Onroad Truck Travel	0.030300	1.0612	0.0034	0.0033
2020	Hauling	Idling	0.001951	0.0303	0.0000	0.0000
2020	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2020	Worker	Worker Commute	0.0687	0.0491	0.0011	0.0010
2021	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2021	Off-Road	Offroad Equipment	0.0561	0.4967	0.0274	0.0258
2021	Paving	Offroad Equipment	0.0314	0.0000	0.0000	0.0000
2021	Archit. Coating	Offroad Equipment	0.7542	0.0000	0.0000	0.0000
2021	Hauling	Onroad Truck Travel	0.0021	0.0704	0.0002	0.0002
2021	Hauling	Idling	0.0006253	0.0097	0.0000	0.0000
2021	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2021	Worker	Worker Commute	0.0091	0.0063	0.0002	0.0001
2030	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2030	Off-Road	Offroad Equipment	0.3351	1.9070	0.0486	0.0486
2030	Paving	Offroad Equipment	0.0239	0.0000	0.0000	0.0000
2030	Archit. Coating	Offroad Equipment	1.2833	0.0000	0.0000	0.0000
2030	Hauling	Onroad Truck Travel	0.0157	0.4780	0.0009	0.0008
2030	Hauling	Idling	0.0021	0.0267	0.0000	0.0000
2030	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2030	Worker	Worker Commute	0.0428	0.0221	0.0008	0.0008
2031	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2031	Off-Road	Offroad Equipment	0.0035	0.0178	0.0008	0.0008
2031	Paving	Offroad Equipment	0.0075	0.0000	0.0000	0.0000
2031	Archit. Coating	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2031	Hauling	Onroad Truck Travel	0.0000	0.0007	0.0000	0.0000
2031	Vendor	Idling	0.0000	0.0005	0.0000	0.0000
2031	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2031	Worker	Worker Commute	0.0001	0.0000	0.0000	0.0000
		Subtotal				

Average Daily Construction Emissions by Source

Phase	CalEEMod Category	Source	ROG	NOX	PM10 Exh	PM2.5 Ex	ROG	NOX	PM10 Exh	PM2.5 Ex
							Average Daily Emissions (lb/day)			
Phase 1A & Phase 1B	Fugitive Dust	Offroad Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	Offroad Equipment	0.66	6.46	0.31	0.29	4.76	46.85	2.27	2.12
	Paving	Offroad Equipment	0.06	0.00	0.00	0.00	0.46	0.00	0.00	0.00
	Archit. Coating	Offroad Equipment	1.67	0.00	0.00	0.00	12.07	0.00	0.00	0.00
	Hauling	Onroad Truck Travel	0.03	1.13	0.00	0.00	0.23	8.20	0.03	0.03
	Hauling	Idling	0.00	0.04	0.00	0.00	0.02	0.29	0.0003	0.00
	Vendor	Onroad Truck Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	Worker Commute	0.08	0.06	0.00	0.00	0.56	0.40	0.009	0.01
		Total	**2.50**	**7.69**	**0.32**	**0.30**	**18.10**	**55.74**	**2.31**	**2.16**
Phase 2	Fugitive Dust	Offroad Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	Offroad Equipment	0.34	1.92	0.05	0.05	2.58	14.69	0.38	0.38
	Paving	Offroad Equipment	0.03	0.00	0.00	0.00	0.24	0.00	0.00	0.00
	Archit. Coating	Offroad Equipment	1.28	0.00	0.00	0.00	9.80	0.00	0.00	0.00
	Hauling	Onroad Truck Travel	0.02	0.48	0.00	0.00	0.12	3.65	0.01	0.01
	Hauling	Idling	0.00	0.03	0.00	0.00	0.02	0.21	0.0001	0.00
	Vendor	Onroad Truck Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00
	Worker	Worker Commute	0.04	0.02	0.00	0.00	0.33	0.17	0.01	0.01
		Total	**1.71**	**2.45**	**0.05**	**0.05**	**13.08**	**18.72**	**0.39**	**0.39**

Annual Construction Emissions

Construction Phase	Year	ROG	NOx	PM10 Exhaust	PM2.5 Exhaust
		tons/year			
Phase 1A & Phase 1B	2020	1.64	7.08	0.29	0.27
	2021	0.85	0.57	0.03	0.03
	Total	*2.4947*	*7.6516*	*0.3184*	*0.2974*
Phase 2	2030	1.70	2.41	0.05	0.05
	2031	0.01	0.02	0.00	0.00
	Total	*1.71*	*2.43*	*0.05*	*0.05*

These emissions are generated from CalEEMod and do not include haul truck idling emissions

Annual Truck Idling Emissions

Year	ROG Idling	NOX Idling	PM10 Idling	PM2.5 Idling
Phase 1A/1B	2.58E-03	4.00E-02	4.15E-05	3.97E-05
Phase 2	2.16E-03	2.73E-02	1.30E-05	1.24E-05

Annual Emissions Summary

Construction Phase	Year	ROG	NOx	PM10 Exhaust	PM2.5 Exhaust
		tons/year			
Phase 1A & Phase 1B	Construction (excluding Idling)	2.49470	7.65	0.32	0.30
	Idling	0.00258	4.00E-02	4.15E-05	3.97E-05
	Total	***2.497***	***7.69***	***0.32***	***0.30***
Phase 2	Construction (excluding Idling)	1.71	2.43	0.05	0.05
	Idling	2.16E-03	2.73E-02	1.30E-05	1.24E-05
	Total	***1.71***	***2.45***	***0.05***	***0.05***

Average Daily Emissions Summary

Construction Phase	Year	ROG	NOx	Exhaust PM10	Exhaust PM2.5
		Average Daily Emissions (lb/day)			
Phase 1A & Phase 1B	2020/2021	18.10	55.74	2.31	2.16
Phase 2	2030/2031	13.08	18.72	0.39	0.39

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Unmitigated CalEEMod Output – Construction

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	222.94	1000sqft	5.12	222,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	68,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	75,411.75
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	111,470.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	205,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	226,235.25
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	334,410.00
tblArchitecturalCoating	ConstArea_Parking	82,015.00	11,447.57
tblArchitecturalCoating	ConstArea_Parking	82,015.00	35,806.32
tblArchitecturalCoating	ConstArea_Parking	82,015.00	34,758.51
tblConstructionPhase	NumDays	55.00	18.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	740.00	148.00
tblConstructionPhase	NumDays	740.00	140.00
tblConstructionPhase	NumDays	740.00	60.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	55.00	11.00
tblConstructionPhase	NumDays	55.00	21.00
tblConstructionPhase	NumDays	55.00	7.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	30.00	7.00
tblConstructionPhase	NumDays	30.00	15.00

tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	800.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,944.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	764.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,036.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,652.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,164.00
tblTripsAndVMT	HaulingTripNumber	0.00	42.00
tblTripsAndVMT	HaulingTripNumber	0.00	680.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,100.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,020.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	751.00	138.00
tblTripsAndVMT	WorkerTripNumber	150.00	28.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	38.00	36.00
tblTripsAndVMT	WorkerTripNumber	23.00	36.00
tblTripsAndVMT	WorkerTripNumber	751.00	316.00
tblTripsAndVMT	WorkerTripNumber	150.00	64.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	751.00	300.00
tblTripsAndVMT	WorkerTripNumber	150.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.6418	7.0783	5.2573	0.0128	0.6885	0.2907	0.9792	0.2625	0.2713	0.5338	0.0000	1,143.5509	1,143.5509	0.2216	0.0000	1,149.0905
2021	0.8529	0.5733	0.5744	1.2100e-003	0.0369	0.0277	0.0646	9.6800e-003	0.0261	0.0357	0.0000	106.8633	106.8633	0.0182	0.0000	107.3170
2030	1.7008	2.4071	4.0709	0.0114	0.6062	0.0503	0.6564	0.2312	0.0501	0.2813	0.0000	1,030.7203	1,030.7203	0.0395	0.0000	1,031.7081
2031	0.0110	0.0185	0.0403	8.0000e-005	6.0000e-004	8.3000e-004	1.4300e-003	1.6000e-004	8.3000e-004	9.9000e-004	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.7008**	**7.0783**	**5.2573**	**0.0128**	**0.6885**	**0.2907**	**0.9792**	**0.2625**	**0.2713**	**0.5338**	**0.0000**	**1,143.5509**	**1,143.5509**	**0.2216**	**0.0000**	**1,149.0905**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.6418	7.0783	5.2573	0.0128	0.6885	0.2907	0.9792	0.2625	0.2713	0.5338	0.0000	1,143.5500	1,143.5500	0.2216	0.0000	1,149.0896
2021	0.8529	0.5733	0.5744	1.2100e-003	0.0369	0.0277	0.0646	9.6800e-003	0.0261	0.0357	0.0000	106.8632	106.8632	0.0182	0.0000	107.3170
2030	1.7008	2.4071	4.0709	0.0114	0.6062	0.0503	0.6564	0.2312	0.0501	0.2813	0.0000	1,030.7195	1,030.7195	0.0395	0.0000	1,031.7073
2031	0.0110	0.0185	0.0403	8.0000e-005	6.0000e-004	8.3000e-004	1.4300e-003	1.6000e-004	8.3000e-004	9.9000e-004	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.7008**	**7.0783**	**5.2573**	**0.0128**	**0.6885**	**0.2907**	**0.9792**	**0.2625**	**0.2713**	**0.5338**	**0.0000**	**1,143.5500**	**1,143.5500**	**0.2216**	**0.0000**	**1,149.0896**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	5.5985	5.5985
2	**7-6-2020**	**10-5-2020**	2.0893	2.0893
3	**10-6-2020**	**1-5-2021**	1.0167	1.0167
4	**1-6-2021**	**4-5-2021**	1.3837	1.3837
40	**1-6-2030**	**4-5-2030**	0.9036	0.9036
41	**4-6-2030**	**7-5-2030**	0.7666	0.7666
42	**7-6-2030**	**10-5-2030**	0.7434	0.7434
43	**10-6-2030**	**1-5-2031**	1.7136	1.7136
44	**1-6-2031**	**4-5-2031**	0.0085	0.0085
		Highest	5.5985	5.5985

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507
Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507
Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/10/2020	6	30	
2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	

8	Phase 1B-Foundations/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/2/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/28/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 226,235; Non-Residential Outdoor: 75,412; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37

Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Welders	1	8.00	46	0.45
Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1B-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Demolition	Excavators	3	8.00	158	0.38
Phase 2-Demolition	Generator Sets	2	8.00	84	0.74
Phase 2-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	2	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Building Construction	Cranes	1	8.00	231	0.29
Phase 2-Building Construction	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	3	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48

Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Drainage/Utilities/Sub-	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Building Construction	14	300.00	0.00	2,100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Paving	12	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Building Construction	11	138.00	0.00	1,944.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Demolition	10	26.00	0.00	764.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Grading/Excavation	15	36.00	0.00	1,036.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Foundations/Concrete	9	36.00	0.00	1,652.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Building Construction	13	316.00	0.00	3,164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Architectural Coatings	1	64.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Paving	6	16.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1A-Grading/Excavation - 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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2731	161.2731	0.0522	0.0000	162.5771
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.1937**	**0.0581**	**0.2518**	**0.0608**	**0.0534**	**0.1142**	**0.0000**	**161.2731**	**161.2731**	**0.0522**	**0.0000**	**162.5771**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2729	161.2729	0.0522	0.0000	162.5769
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.1937**	**0.0581**	**0.2518**	**0.0608**	**0.0534**	**0.1142**	**0.0000**	**161.2729**	**161.2729**	**0.0522**	**0.0000**	**162.5769**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

3.3 Phase 1B-Grading/Excavation - 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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0284	96.0284	0.0311	0.0000	96.8049

Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1671**	**0.0384**	**0.2054**	**0.0859**	**0.0353**	**0.1212**	**0.0000**	**96.0284**	**96.0284**	**0.0311**	**0.0000**	**96.8049**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0283	96.0283	0.0311	0.0000	96.8048
Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1671**	**0.0384**	**0.2054**	**0.0859**	**0.0353**	**0.1212**	**0.0000**	**96.0283**	**96.0283**	**0.0311**	**0.0000**	**96.8048**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2124
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2124**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2123
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2123**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

3.6 Phase 1A-Building Construction - 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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4380	181.4380	0.0532	0.0000	182.7670

Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4380**	**181.4380**	**0.0532**	**0.0000**	**182.7670**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4378	181.4378	0.0532	0.0000	182.7668
Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4378**	**181.4378**	**0.0532**	**0.0000**	**182.7668**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5109	8.5109	6.6000e-004	0.0000	8.5273
Total	**0.9190**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5109**	**8.5109**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5108	8.5108	6.6000e-004	0.0000	8.5273
Total	**0.9190**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5108**	**8.5108**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

3.9 Phase 1B-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6183
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6183**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6182
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6182**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

3.10 Phase 1A-Paving - 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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0753	22.0753	7.1400e-003	0.0000	22.2538
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0753**	**22.0753**	**7.1400e-003**	**0.0000**	**22.2538**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0752	22.0752	7.1400e-003	0.0000	22.2537
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0752**	**22.0752**	**7.1400e-003**	**0.0000**	**22.2537**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2363	154.2363	0.0379	0.0000	155.1849
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2363**	**154.2363**	**0.0379**	**0.0000**	**155.1849**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2362	154.2362	0.0379	0.0000	155.1848
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2362**	**154.2362**	**0.0379**	**0.0000**	**155.1848**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2876	53.2876	0.0129	0.0000	53.6108

Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2876**	**53.2876**	**0.0129**	**0.0000**	**53.6108**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2875	53.2875	0.0129	0.0000	53.6107
Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2875**	**53.2875**	**0.0129**	**0.0000**	**53.6107**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7568**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7568**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

3.13 Phase 1B-Paving - 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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.0310	0.1738	0.3478	7.3000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	63.0830	63.0830	2.5000e-003	0.0000	63.1456

Total	**0.0310**	**0.1738**	**0.3478**	**7.3000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**63.0830**	**63.0830**	**2.5000e-003**	**0.0000**	**63.1456**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

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					
Off-Road	0.0310	0.1738	0.3478	7.3000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	63.0829	63.0829	2.5000e-003	0.0000	63.1455
Total	**0.0310**	**0.1738**	**0.3478**	**7.3000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**63.0829**	**63.0829**	**2.5000e-003**	**0.0000**	**63.1455**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

3.15 Phase 2-Grading/Excavation - 2030

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.3038	0.4524	1.6700e-003		0.0111	0.0111		0.0111	0.0111	0.0000	164.2593	164.2593	6.4000e-003	0.0000	164.4193
Total	**0.0796**	**0.3038**	**0.4524**	**1.6700e-003**	**0.1345**	**0.0111**	**0.1456**	**0.0411**	**0.0111**	**0.0522**	**0.0000**	**164.2593**	**164.2593**	**6.4000e-003**	**0.0000**	**164.4193**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.3038	0.4524	1.6700e-003		0.0111	0.0111		0.0111	0.0111	0.0000	164.2591	164.2591	6.4000e-003	0.0000	164.4191
Total	**0.0796**	**0.3038**	**0.4524**	**1.6700e-003**	**0.1345**	**0.0111**	**0.1456**	**0.0411**	**0.0111**	**0.0522**	**0.0000**	**164.2591**	**164.2591**	**6.4000e-003**	**0.0000**	**164.4191**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0058	50.0058	2.4700e-003	0.0000	50.0675
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0058**	**50.0058**	**2.4700e-003**	**0.0000**	**50.0675**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0057	50.0057	2.4700e-003	0.0000	50.0674
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0057**	**50.0057**	**2.4700e-003**	**0.0000**	**50.0674**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0309	24.0309	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0309**	**24.0309**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0308	24.0308	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0308**	**24.0308**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.1703	1.1222	2.3147	4.2300e-003		0.0226	0.0226		0.0226	0.0226	0.0000	361.4273	361.4273	0.0137	0.0000	361.7703
Total	**0.1703**	**1.1222**	**2.3147**	**4.2300e-003**		**0.0226**	**0.0226**		**0.0226**	**0.0226**	**0.0000**	**361.4273**	**361.4273**	**0.0137**	**0.0000**	**361.7703**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

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					
Off-Road	0.1703	1.1222	2.3147	4.2300e-003		0.0226	0.0226		0.0226	0.0226	0.0000	361.4268	361.4268	0.0137	0.0000	361.7699
Total	**0.1703**	**1.1222**	**2.3147**	**4.2300e-003**		**0.0226**	**0.0226**		**0.0226**	**0.0226**	**0.0000**	**361.4268**	**361.4268**	**0.0137**	**0.0000**	**361.7699**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2851**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2851**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022

Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022
Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

3.20 Phase 2-Paving - 2031

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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	tons/yr										MT/yr					
Mitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Unmitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	312,484	312,484
Strip Mall	9,880.70	9,372.40	4554.66	13,933,023	13,933,023
Total	21,547.17	22,800.69	14,385.62	29,290,036	29,290,036

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Gasoline/Service Station	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Hotel	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Other Non-Asphalt Surfaces	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Strip Mall	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
NaturalGas Mitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023
NaturalGas Unmitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023

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					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633
Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

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	tons/yr										MT/yr					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633
Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525

Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101
Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101
Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Unmitigated	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	82.4607	1.1102	0.0268	118.2054
Unmitigated	82.4607	1.1102	0.0268	118.2054

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145

Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416
Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416
Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	205.6481	12.1535	0.0000	509.4845
Unmitigated	205.6481	12.1535	0.0000	509.4845

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

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

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Mitigated Construction Emissions Summary

Total Annual Emissions by Source (tons per year)

Year	CalEEMod Category	Source	ROG	NOX	PM10 Exh	PM2.5 Ex
2020	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2020	Off-Road	Offroad Equipment	0.2595	4.1501	0.2093	0.2093
2020	Paving	Offroad Equipment	0.0314	0.0000	0.0000	0.0000
2020	Archit. Coating	Offroad Equipment	0.9109	0.0000	0.0000	0.0000
2020	Hauling	Onroad Truck Travel	0.030300	1.0612	0.0034	0.0033
2020	Hauling	Idling	0.001951	0.0303	0.0000	0.0000
2020	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2020	Worker	Worker Commute	0.0687	0.0491	0.0011	0.0010
2021	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2021	Off-Road	Offroad Equipment	0.0277	0.4091	0.0248	0.0248
2021	Paving	Offroad Equipment	0.0314	0.0000	0.0000	0.0000
2021	Archit. Coating	Offroad Equipment	0.7542	0.0000	0.0000	0.0000
2021	Hauling	Onroad Truck Travel	0.0021	0.0704	0.0002	0.0002
2021	Hauling	Idling	0.0006253	0.0097	0.0000	0.0000
2021	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2021	Worker	Worker Commute	0.0091	0.0063	0.0002	0.0001
2030	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2030	Off-Road	Offroad Equipment	0.1679	3.4224	0.1954	0.1954
2030	Paving	Offroad Equipment	0.0239	0.0000	0.0000	0.0000
2030	Archit. Coating	Offroad Equipment	1.2833	0.0000	0.0000	0.0000
2030	Hauling	Onroad Truck Travel	0.0157	0.4780	0.0009	0.0008
2030	Hauling	Idling	0.0021	0.0267	0.0000	0.0000
2030	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2030	Worker	Worker Commute	0.0428	0.0221	0.0008	0.0008
2031	Fugitive Dust	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2031	Off-Road	Offroad Equipment	0.0014	0.0282	0.0015	0.0015
2031	Paving	Offroad Equipment	0.0075	0.0000	0.0000	0.0000
2031	Archit. Coating	Offroad Equipment	0.0000	0.0000	0.0000	0.0000
2031	Hauling	Onroad Truck Travel	0.0000	0.0007	0.0000	0.0000
2031	Vendor	Idling	0.0000	0.0005	0.0000	0.0000
2031	Vendor	Onroad Truck Travel	0.0000	0.0000	0.0000	0.0000
2031	Worker	Worker Commute	0.0001	0.0000	0.0000	0.0000
		Subtotal				

Average Daily Construction Emissions by Source

Phase	CalEEMod Category	Source	ROG	NOX	PM10 Exh	PM2.5 Ex	ROG	NOX	PM10 Exh	PM2.5 Ex
							Average Daily Emissions (lb/day)			
Phase 1A & Phase 1B	Fugitive Dust	Offroad Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	Offroad Equipment	0.29	4.56	0.23	0.23	2.08	33.04	1.70	1.70
	Paving	Offroad Equipment	0.06	0.00	0.00	0.00	0.46	0.00	0.00	0.00
	Archit. Coating	Offroad Equipment	1.67	0.00	0.00	0.00	12.07	0.00	0.00	0.00
	Hauling	Onroad Truck Travel	0.03	1.13	0.00	0.00	0.23	8.20	0.03	0.03
	Hauling	Idling	0.00	0.04	0.00	0.00	0.02	0.29	0.00	0.00
	Vendor	Onroad Truck Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	Worker Commute	0.08	0.06	0.00	0.00	0.56	0.40	0.01	0.01
		Total	**2.128**	**5.786**	**0.239**	**0.239**	**15.42**	**41.93**	**1.73**	**1.73**
Phase 2	Fugitive Dust	Offroad Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road	Offroad Equipment	0.17	3.45	0.20	0.20	1.29	26.34	1.50	1.50
	Paving	Offroad Equipment	0.03	0.00	0.00	0.00	0.24	0.00	0.00	0.00
	Archit. Coating	Offroad Equipment	1.28	0.00	0.00	0.00	9.80	0.00	0.00	0.00
	Hauling	Onroad Truck Travel	0.02	0.48	0.00	0.00	0.12	3.65	0.01	0.01
	Hauling	Idling	0.00	0.03	0.00	0.00	0.02	0.21	0.00	0.00
	Vendor	Onroad Truck Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	Worker Commute	0.04	0.02	0.00	0.00	0.33	0.17	0.01	0.01
		Total	**1.54**	**3.98**	**0.20**	**0.20**	**11.7911**	**30.3720**	**1.5161**	**1.5154**

Annual Construction Emissions

Construction Phase	Year	ROG	NOx	PM10 Exhaust	PM2.5 Exhaust
		tons/year			
Phase 1A & Phase 1B	2020	1.30	5.26	0.21	0.21
	2021	0.82	0.49	0.03	0.03
	Total	*2.13*	*5.75*	*0.24*	*0.24*
Phase 2	2030	1.53	3.92	0.20	0.20
	2031	0.01	0.03	0.00	0.00
	Total	*1.54*	*3.95*	*0.20*	*0.20*

These emissions are generated from CalEEMod and do not include haul truck idling emissions

Annual Truck Idling Emissions

Year	ROG Idling	NOX Idling	PM10 Idling	PM2.5 Idling
Phase 1A/1B	2.58E-03	4.00E-02	4.15E-05	3.97E-05
Phase 2	2.16E-03	2.73E-02	1.30E-05	1.24E-05

Annual Emissions Summary

Construction Phase	Year	ROG	NOx	PM10 Exhaust	PM2.5 Exhaust
		tons/year			
Phase 1A & Phase 1B	Construction (excluding Idling)	2.12520	5.75	0.24	0.24
	Idling	0.00258	4.00E-02	4.15E-05	3.97E-05
	Total	***2.128***	***5.79***	***0.24***	***0.24***
Phase 2	Construction (excluding Idling)	1.54	3.95	0.20	0.20
	Idling	2.16E-03	2.73E-02	1.30E-05	1.24E-05
	Total	***1.54***	***3.98***	***0.20***	***0.20***

Average Daily Emissions Summary

Construction Phase	Year	ROG	NOx	Exhaust PM10	Exhaust PM2.5
		Average Daily Emissions (lb/day)			
Phase 1A & Phase 1B	2020/2021	15.42	41.93	1.73	1.73
Phase 2	2030/2031	11.79	30.37	1.52	1.52

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Mitigated CalEEMod Output – Construction

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	222.94	1000sqft	5.12	222,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	68,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	75,411.75
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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	205,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	226,235.25
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	334,410.00
tblArchitecturalCoating	ConstArea_Parking	82,015.00	11,447.57
tblArchitecturalCoating	ConstArea_Parking	82,015.00	35,806.32
tblArchitecturalCoating	ConstArea_Parking	82,015.00	34,758.51
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstructionPhase	NumDays	55.00	11.00

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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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tblOffRoadEquipment	UsageHours	6.00	8.00

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tblOffRoadEquipment	UsageHours	7.00	8.00
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tblTripsAndVMT	HaulingTripNumber	0.00	3,164.00
tblTripsAndVMT	HaulingTripNumber	0.00	42.00
tblTripsAndVMT	HaulingTripNumber	0.00	680.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,100.00
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tblTripsAndVMT	VendorTripNumber	308.00	0.00
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tblTripsAndVMT	WorkerTripNumber	150.00	28.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
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tblTripsAndVMT	WorkerTripNumber	38.00	36.00
tblTripsAndVMT	WorkerTripNumber	23.00	36.00
tblTripsAndVMT	WorkerTripNumber	751.00	316.00
tblTripsAndVMT	WorkerTripNumber	150.00	64.00

tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	751.00	300.00
tblTripsAndVMT	WorkerTripNumber	150.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.6418	7.0783	5.2573	0.0128	0.6885	0.2907	0.9792	0.2625	0.2713	0.5338	0.0000	1,143.5509	1,143.5509	0.2216	0.0000	1,149.0905
2021	0.8529	0.5733	0.5744	1.2100e-003	0.0369	0.0277	0.0646	9.6800e-003	0.0261	0.0357	0.0000	106.8633	106.8633	0.0182	0.0000	107.3170
2030	1.7008	2.4071	4.0709	0.0114	0.6062	0.0503	0.6564	0.2312	0.0501	0.2813	0.0000	1,030.7203	1,030.7203	0.0395	0.0000	1,031.7081
2031	0.0110	0.0185	0.0403	8.0000e-005	6.0000e-004	8.3000e-004	1.4300e-003	1.6000e-004	8.3000e-004	9.9000e-004	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.7008**	**7.0783**	**5.2573**	**0.0128**	**0.6885**	**0.2907**	**0.9792**	**0.2625**	**0.2713**	**0.5338**	**0.0000**	**1,143.5509**	**1,143.5509**	**0.2216**	**0.0000**	**1,149.0905**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.3008	5.2604	5.9854	0.0128	0.6885	0.2137	0.9022	0.2625	0.2135	0.4760	0.0000	1,143.5500	1,143.5500	0.2216	0.0000	1,149.0896

2021	0.8244	0.4857	0.6211	1.2100e-003	0.0369	0.0252	0.0621	9.6800e-003	0.0251	0.0348	0.0000	106.8632	106.8632	0.0182	0.0000	107.3170
2030	1.5336	3.9225	4.8699	0.0114	0.6062	0.1972	0.8033	0.2312	0.1970	0.4282	0.0000	1,030.7195	1,030.7195	0.0395	0.0000	1,031.7073
2031	8.9700e-003	0.0290	0.0440	8.0000e-005	6.0000e-004	1.5300e-003	2.1300e-003	1.6000e-004	1.5300e-003	1.6800e-003	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.5336**	**5.2604**	**5.9854**	**0.0128**	**0.6885**	**0.2137**	**0.9022**	**0.2625**	**0.2135**	**0.4760**	**0.0000**	**1,143.5500**	**1,143.5500**	**0.2216**	**0.0000**	**1,149.0896**

	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	N20	CO2e
Percent Reduction	**12.81**	**3.77**	**-15.86**	**0.00**	**0.00**	**-18.43**	**-4.00**	**0.00**	**-25.52**	**-10.43**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	5.5985	4.0702
2	**7-6-2020**	**10-5-2020**	2.0893	1.6979
3	**10-6-2020**	**1-5-2021**	1.0167	0.7777
4	**1-6-2021**	**4-5-2021**	1.3837	1.2750
40	**1-6-2030**	**4-5-2030**	0.9036	1.4531
41	**4-6-2030**	**7-5-2030**	0.7666	1.0627
42	**7-6-2030**	**10-5-2030**	0.7434	1.0718
43	**10-6-2030**	**1-5-2031**	1.7136	1.8837
44	**1-6-2031**	**4-5-2031**	0.0085	0.0108
		Highest	5.5985	4.0702

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507

Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507
Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/10/2020	6	30	

2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	
8	Phase 1B-Foundations/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/2/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/28/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 226,235; Non-Residential Outdoor: 75,412; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38

Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37
Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Welders	1	8.00	46	0.45
Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74

Phase 1B-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Demolition	Excavators	3	8.00	158	0.38
Phase 2-Demolition	Generator Sets	2	8.00	84	0.74
Phase 2-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	2	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Building Construction	Cranes	1	8.00	231	0.29

Phase 2-Building Construction	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	3	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Drainage/Utilities/Sub-	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Building Construction	14	300.00	0.00	2,100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Paving	12	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Building Construction	11	138.00	0.00	1,944.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Demolition	10	26.00	0.00	764.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Grading/Excavation	15	36.00	0.00	1,036.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Foundations/Concrete	9	36.00	0.00	1,652.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Building Construction	13	316.00	0.00	3,164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Phase 2-Architectural Coatings	1	64.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Paving	6	16.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Phase 1A-Grading/Excavation - 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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2731	161.2731	0.0522	0.0000	162.5771
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.1937**	**0.0581**	**0.2518**	**0.0608**	**0.0534**	**0.1142**	**0.0000**	**161.2731**	**161.2731**	**0.0522**	**0.0000**	**162.5771**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0451	0.8762	0.9879	1.8400e-003		0.0341	0.0341		0.0341	0.0341	0.0000	161.2729	161.2729	0.0522	0.0000	162.5769
Total	**0.0451**	**0.8762**	**0.9879**	**1.8400e-003**	**0.1937**	**0.0341**	**0.2278**	**0.0608**	**0.0341**	**0.0949**	**0.0000**	**161.2729**	**161.2729**	**0.0522**	**0.0000**	**162.5769**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

3.3 Phase 1B-Grading/Excavation - 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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0284	96.0284	0.0311	0.0000	96.8049
Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1671**	**0.0384**	**0.2054**	**0.0859**	**0.0353**	**0.1212**	**0.0000**	**96.0284**	**96.0284**	**0.0311**	**0.0000**	**96.8049**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0268	0.5378	0.6629	1.0900e-003		0.0253	0.0253		0.0253	0.0253	0.0000	96.0283	96.0283	0.0311	0.0000	96.8048
Total	**0.0268**	**0.5378**	**0.6629**	**1.0900e-003**	**0.1671**	**0.0253**	**0.1924**	**0.0859**	**0.0253**	**0.1112**	**0.0000**	**96.0283**	**96.0283**	**0.0311**	**0.0000**	**96.8048**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0924	0.1191	1.9000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**4.7600e-003**	**0.0924**	**0.1191**	**1.9000e-004**	**0.0000**	**4.5000e-003**	**4.5000e-003**	**0.0000**	**4.5000e-003**	**4.5000e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2124
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2124**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.2301	0.2258	4.5000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2123
Total	**0.0293**	**0.2301**	**0.2258**	**4.5000e-004**	**0.0000**	**0.0110**	**0.0110**	**0.0000**	**0.0110**	**0.0110**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2123**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

3.6 Phase 1A-Building Construction - 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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4380	181.4380	0.0532	0.0000	182.7670
Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4380**	**181.4380**	**0.0532**	**0.0000**	**182.7670**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

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					
Off-Road	0.0586	0.9952	1.4538	2.0800e-003		0.0484	0.0484		0.0484	0.0484	0.0000	181.4378	181.4378	0.0532	0.0000	182.7668

Total	**0.0586**	**0.9952**	**1.4538**	**2.0800e-003**		**0.0484**	**0.0484**		**0.0484**	**0.0484**	**0.0000**	**181.4378**	**181.4378**	**0.0532**	**0.0000**	**182.7668**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5109	8.5109	6.6000e-004	0.0000	8.5273
Total	**0.9190**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5109**	**8.5109**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9800e-003	0.0452	0.0611	1.0000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003	0.0000	8.5108	8.5108	6.6000e-004	0.0000	8.5273
Total	**0.9129**	**0.0452**	**0.0611**	**1.0000e-004**		**3.1700e-003**	**3.1700e-003**		**3.1700e-003**	**3.1700e-003**	**0.0000**	**8.5108**	**8.5108**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1200e-003	0.1049	0.1263	2.1000e-004		5.2000e-003	5.2000e-003		5.2000e-003	5.2000e-003	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**5.1200e-003**	**0.1049**	**0.1263**	**2.1000e-004**	**0.0994**	**5.2000e-003**	**0.1046**	**0.0546**	**5.2000e-003**	**0.0598**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

3.9 Phase 1B-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6183
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6183**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	8.2000e-003	0.1819	0.2387	3.6000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6182
Total	**8.2000e-003**	**0.1819**	**0.2387**	**3.6000e-004**	**0.0000**	**0.0118**	**0.0118**	**0.0000**	**0.0118**	**0.0118**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6182**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

3.10 Phase 1A-Paving - 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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0753	22.0753	7.1400e-003	0.0000	22.2538
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0753**	**22.0753**	**7.1400e-003**	**0.0000**	**22.2538**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

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					
Off-Road	6.1600e-003	0.1222	0.1590	2.5000e-004		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	22.0752	22.0752	7.1400e-003	0.0000	22.2537
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0376**	**0.1222**	**0.1590**	**2.5000e-004**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**22.0752**	**22.0752**	**7.1400e-003**	**0.0000**	**22.2537**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2363	154.2363	0.0379	0.0000	155.1849
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2363**	**154.2363**	**0.0379**	**0.0000**	**155.1849**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

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					
Off-Road	0.0735	0.9642	1.2284	1.8100e-003		0.0602	0.0602		0.0602	0.0602	0.0000	154.2362	154.2362	0.0379	0.0000	155.1848
Total	**0.0735**	**0.9642**	**1.2284**	**1.8100e-003**		**0.0602**	**0.0602**		**0.0602**	**0.0602**	**0.0000**	**154.2362**	**154.2362**	**0.0379**	**0.0000**	**155.1848**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2876	53.2876	0.0129	0.0000	53.6108
Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2876**	**53.2876**	**0.0129**	**0.0000**	**53.6108**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

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					
Off-Road	0.0239	0.3307	0.4225	6.2000e-004		0.0203	0.0203		0.0203	0.0203	0.0000	53.2875	53.2875	0.0129	0.0000	53.6107

Total	**0.0239**	**0.3307**	**0.4225**	**6.2000e-004**		**0.0203**	**0.0203**		**0.0203**	**0.0203**	**0.0000**	**53.2875**	**53.2875**	**0.0129**	**0.0000**	**53.6107**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7568**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	0.0163	0.0220	4.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7549**	**0.0163**	**0.0220**	**4.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.1400e-003**	**1.1400e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

3.13 Phase 1B-Paving - 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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

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					
Off-Road	3.0900e-003	0.0621	0.0951	1.3000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0345**	**0.0621**	**0.0951**	**1.3000e-004**		**3.3500e-003**	**3.3500e-003**		**3.3500e-003**	**3.3500e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.0310	0.1738	0.3478	7.3000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	63.0830	63.0830	2.5000e-003	0.0000	63.1456
Total	**0.0310**	**0.1738**	**0.3478**	**7.3000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**63.0830**	**63.0830**	**2.5000e-003**	**0.0000**	**63.1456**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

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					
Off-Road	0.0147	0.3073	0.4144	7.3000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	63.0829	63.0829	2.5000e-003	0.0000	63.1455

Total	**0.0147**	**0.3073**	**0.4144**	**7.3000e-004**		**0.0173**	**0.0173**		**0.0173**	**0.0173**	**0.0000**	**63.0829**	**63.0829**	**2.5000e-003**	**0.0000**	**63.1455**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

3.15 Phase 2-Grading/Excavation - 2030

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.3038	0.4524	1.6700e-003		0.0111	0.0111		0.0111	0.0111	0.0000	164.2593	164.2593	6.4000e-003	0.0000	164.4193
Total	**0.0796**	**0.3038**	**0.4524**	**1.6700e-003**	**0.1345**	**0.0111**	**0.1456**	**0.0411**	**0.0111**	**0.0522**	**0.0000**	**164.2593**	**164.2593**	**6.4000e-003**	**0.0000**	**164.4193**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0382	0.7445	0.8656	1.6700e-003		0.0299	0.0299		0.0299	0.0299	0.0000	164.2591	164.2591	6.4000e-003	0.0000	164.4191
Total	**0.0382**	**0.7445**	**0.8656**	**1.6700e-003**	**0.1345**	**0.0299**	**0.1643**	**0.0411**	**0.0299**	**0.0710**	**0.0000**	**164.2591**	**164.2591**	**6.4000e-003**	**0.0000**	**164.4191**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0058	50.0058	2.4700e-003	0.0000	50.0675
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0058**	**50.0058**	**2.4700e-003**	**0.0000**	**50.0675**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.2383	0.2870	5.8000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	50.0057	50.0057	2.4700e-003	0.0000	50.0674
Total	**0.0116**	**0.2383**	**0.2870**	**5.8000e-004**	**0.2258**	**0.0118**	**0.2377**	**0.1241**	**0.0118**	**0.1360**	**0.0000**	**50.0057**	**50.0057**	**2.4700e-003**	**0.0000**	**50.0674**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0309	24.0309	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0309**	**24.0309**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	5.5900e-003	0.1240	0.1627	2.8000e-004		8.0300e-003	8.0300e-003		8.0300e-003	8.0300e-003	0.0000	24.0308	24.0308	8.8000e-004	0.0000	24.0528
Total	**5.5900e-003**	**0.1240**	**0.1627**	**2.8000e-004**	**0.0000**	**8.0300e-003**	**8.0300e-003**	**0.0000**	**8.0300e-003**	**8.0300e-003**	**0.0000**	**24.0308**	**24.0308**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.1703	1.1222	2.3147	4.2300e-003		0.0226	0.0226		0.0226	0.0226	0.0000	361.4273	361.4273	0.0137	0.0000	361.7703
Total	**0.1703**	**1.1222**	**2.3147**	**4.2300e-003**		**0.0226**	**0.0226**		**0.0226**	**0.0226**	**0.0000**	**361.4273**	**361.4273**	**0.0137**	**0.0000**	**361.7703**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

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					
Off-Road	0.0925	1.8998	2.5205	4.2300e-003		0.1222	0.1222		0.1222	0.1222	0.0000	361.4268	361.4268	0.0137	0.0000	361.7699
Total	**0.0925**	**1.8998**	**2.5205**	**4.2300e-003**		**0.1222**	**0.1222**		**0.1222**	**0.1222**	**0.0000**	**361.4268**	**361.4268**	**0.0137**	**0.0000**	**361.7699**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2851**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9000e-004	0.0181	0.0244	4.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2841**	**0.0181**	**0.0244**	**4.0000e-005**		**1.2700e-003**	**1.2700e-003**		**1.2700e-003**	**1.2700e-003**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022
Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

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					
Off-Road	4.4900e-003	0.0904	0.1384	2.2000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022

Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0284**	**0.0904**	**0.1384**	**2.2000e-004**		**4.8700e-003**	**4.8700e-003**		**4.8700e-003**	**4.8700e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

3.20 Phase 2-Paving - 2031

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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					
Off-Road	1.4000e-003	0.0282	0.0432	7.0000e-005		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.8700e-003**	**0.0282**	**0.0432**	**7.0000e-005**		**1.5200e-003**	**1.5200e-003**		**1.5200e-003**	**1.5200e-003**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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	tons/yr										MT/yr					
Mitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Unmitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		

Parking Lot	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	312,484	312,484
Strip Mall	9,880.70	9,372.40	4554.66	13,933,023	13,933,023
Total	21,547.17	22,800.69	14,385.62	29,290,036	29,290,036

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Gasoline/Service Station	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Hotel	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Other Non-Asphalt Surfaces	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Strip Mall	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
NaturalGas Mitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023
NaturalGas Unmitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023

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					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633

Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

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	tons/yr										MT/yr					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633
Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113

Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101
Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101

Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Unmitigated	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	82.4607	1.1102	0.0268	118.2054
Unmitigated	82.4607	1.1102	0.0268	118.2054

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416
Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416

Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	205.6481	12.1535	0.0000	509.4845
Unmitigated	205.6481	12.1535	0.0000	509.4845

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

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

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Construction Haul Truck Idling Emissions

On-Road Haul/Concrete Truck Idling Emissions

Phase 1A- Costco and Gas Station (2020)

Construction Phase	Start	End	First Year of Construction	Total Work Days (6 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	ROG Idling Exhaust EF (lb/min)	NOX Idling Exhaust EF (lb/min)	PM10 Idling Exhaust EF (lb/min)	PM2.5 Idling Exhaust EF (lb/min)	ROG Idling Exhaust Emissions (tons)	NOX Idling Exhaust Emissions (tons)	PM10 Idling Exhaust Emissions (tons)	PM2.5 Idling Exhaust Emissions (tons)
Grading/Excavation	4/6/2020	5/10/2020	2020	30	8	400	800	28	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	2.65E-04	4.12E-03	4.27E-06	4.09E-06
Drainage/Utilities/Sub-Grade	4/22/2020	4/29/2020	2020	7	8	0	0	0.0	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Foundations/Concrete Pour	4/29/2020	5/15/2020	2020	15	8	600	1200	80	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	3.97E-04	6.17E-03	6.41E-06	6.13E-06
Building Construction	5/16/2020	7/24/2020	2020	60	8	1050	2100	36	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	6.95E-04	1.08E-02	1.12E-05	1.07E-05
Architectural Coatings	5/28/2020	7/24/2020	2020	50	8	0	0	0	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Paving	7/17/2020	7/24/2020	2020	7	8	7	14	2	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	4.64E-06	7.20E-05	7.48E-08	7.15E-08
													Total	**1.36E-03**	**2.12E-02**	**2.20E-05**	**2.10E-05**

Phase 1B- Hotel and Retail (2020)

Construction Phase	Start	End	First Year of Construction	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	ROG Idling Exhaust EF (lb/min)	NOX Idling Exhaust EF (lb/min)	PM10 Idling Exhaust EF (lb/min)	PM2.5 Idling Exhaust EF (lb/min)	ROG Idling Exhaust Emissions (tons)	NOX Idling Exhaust Emissions (tons)	PM10 Idling Exhaust Emissions (tons)	PM2.5 Idling Exhaust Emissions (tons)
Grading/Excavation	4/6/2020	6/15/2020	2020	51	8	340	680	14	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	2.25E-04	3.50E-03	3.63E-06	3.47E-06
Drainage/Utilities/Sub-Grade	6/16/2020	6/30/2020	2020	11	8	0	0	0	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Foundations/Concrete Pour	7/1/2020	7/30/2020	2020	22	8	510	1020	48	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	3.38E-04	5.25E-03	5.45E-06	5.21E-06
Building Construction	7/31/2020	2/23/2021	2020	148	8	972	1944	14	15	8.83E-05	1.37E-03	1.42E-06	1.36E-06	6.44E-04	1.00E-02	1.04E-05	9.93E-06
Architectural Coatings	2/24/2021	3/20/2021	2021	18	8	0	0	0	15	8.78E-05	1.32E-03	1.22E-06	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Paving	3/21/2021	4/5/2021	2021	11	8	11	22	2	15	8.78E-05	1.32E-03	1.22E-06	1.16E-06	7.24E-06	1.09E-04	1.00E-07	9.60E-08
													Total	**1.21E-03**	**1.89E-02**	**1.96E-05**	**1.87E-05**

Phase 2- Retail (2030)

Construction Phase	Start	End	First Year of Construction	Total Work Days (5 days per week)	Hours per Day	Total Trucks	Total Truck Trips (In/Out)	Total Truck Trips (In/Out) per Day	Idling Duration (min)	ROG Idling Exhaust EF (lb/min)	NOX Idling Exhaust EF (lb/min)	PM10 Idling Exhaust EF (lb/min)	PM2.5 Idling Exhaust EF (lb/min)	ROG Idling Exhaust Emissions (tons)	NOX Idling Exhaust Emissions (tons)	PM10 Idling Exhaust Emissions (tons)	PM2.5 Idling Exhaust Emissions (tons)
Demolition	1/7/2030	2/3/2030	2030	20	8	382	764	40	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	2.48E-04	3.13E-03	1.49E-06	1.42E-06
Grading/Excavation	2/4/2030	3/2/2030	2030	20	8	518	1036	52	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	3.36E-04	4.24E-03	2.02E-06	1.93E-06
Drainage/Utilities/Sub-Grade	3/3/2030	4/6/2030	2030	25	8	0	0	0	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Foundations/Concrete Pour	4/6/2030	4/28/2030	2030	15	8	826	1652	112	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	5.36E-04	6.76E-03	3.21E-06	3.08E-06
Building Construction	4/30/2030	11/11/2030	2030	140	8	1582	3164	24	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	1.03E-03	1.30E-02	6.16E-06	5.89E-06
Architectural Coatings	11/12/2030	12/9/2030	2030	20	8	0	0	0	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Paving	12/10/2030	1/7/2031	2030	21	8	21	42	2	15	8.65E-05	1.09E-03	5.19E-07	4.96E-07	1.36E-05	1.72E-04	8.17E-08	7.82E-08
													Total	**2.16E-03**	**2.73E-02**	**1.30E-05**	**1.24E-05**

Phase	ROG Idling Exhaust Emissions (tons)	NOX Idling Exhaust Emissions (tons)	PM10 Idling Exhaust Emissions (tons)	PM2.5 Idling Exhaust Emissions (tons)
Phase 1A/1B	2.58E-03	4.00E-02	4.15E-05	3.97E-05
Phase 2	2.16E-03	2.73E-02	1.30E-05	1.24E-05

Note:
The City estimated project total truck for the grading/excavation and foundations/concrete pour for all phases, and building construction for Phase 1A, the truck trips of building construction of other phases were scaled based on landuse squarefeet as compared to Phase 1a. Paving phase is assumed to have one truck per day.

fuel	Dsl
vehicle_class	HHDT
process	IDLEX

Average of emission_rate	Column Labels				
Row Labels	**NOx**	**PM10**	**PM2_5**	**ROG**	**Grand Total**
2020	37.3428984	0.038761291	0.037084494	2.402915815	9.955415
2021	35.93526632	0.033085473	0.03165421	2.388771459	9.597194366
2030	29.71019804	0.014121172	0.013510297	2.354600498	8.023107501
Grand Total	**34.32945425**	**0.028655979**	**0.027416334**	**2.382095924**	**9.191905622**

HHDT Idling EF

	ROG	NOx	PM10	PM2_5
Year		**g/hr**		
2020	2.40E+00	3.73E+01	3.88E-02	3.71E-02
2021	2.39E+00	3.59E+01	3.31E-02	3.17E-02
2030	2.35E+00	2.97E+01	1.41E-02	1.35E-02

HHDT Idling EF

	ROG	NOx	PM10	PM2_5
Year		**g/min**		
2020	4.00E-02	6.22E-01	6.46E-04	6.18E-04
2021	3.98E-02	5.99E-01	5.51E-04	5.28E-04
2030	3.92E-02	4.95E-01	2.35E-04	2.25E-04

HHDT Idling EF

	ROG	NOx	PM10	PM2_5
Year		**lb/min**		
2020	8.83E-05	1.37E-03	1.42E-06	1.36E-06
2021	8.78E-05	1.32E-03	1.22E-06	1.16E-06
2030	8.65E-05	1.09E-03	5.19E-07	4.96E-07

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Operational Emissions

Operational Emissions Summary

Average Daily Emissions

Phase 1 Operations (2021)	ROG	NOX	PM10	PM2.5
Category	**Average Daily Emissions (lb/day)**			
Area	5.86	0.0002	0.0001	0.0001
Energy	0.14	1.23	0.09	0.09
Non-Delivery Vehicles (Running)	13.98	36.49	54.67	14.98
Light-Duty Vehicles (Idling at Gas Station)	0.30	0.38	0.03	0.03
Delivery Trucks (Running + Starting)	0.17	8.77	0.41	0.22
Delivery Trucks (Idling)	0.06	0.87	0.001	0.001
TRUs	0.23	3.43	0.02	0.02
Gas Station (Evaporative)	32.34	0.00	0.00	0.00
Costco Generator	0.09	1.37	0.04	0.04
Hotel Generator	0.09	1.37	0.04	0.04
Existing 27,550 SF of Gen Light Industrial	0.87	1.78	0.97	0.28
Total Phase 1 Operational Emissions	**54.13**	**55.68**	**56.29**	**15.71**
Existing 27,550 SF of Gen Light Industrial	0.87	1.78	0.97	0.28
Net Phase 1 Operational Emissions	**53.27**	**53.91**	**55.32**	**15.43**
BAAQMD Threshold	54.00	54.00	82.00	54.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

Phase 1 Operations (2030)	ROG	NOX	PM10	PM2.5
Category	**Average Daily Emissions (lb/day)**			
Area	5.86	0.0002	0.0001	0.0001
Energy	0.14	1.23	0.09	0.09
Non-Delivery Vehicles (Running)	8.62	21.01	54.47	14.80
Light-Duty Vehicles (Idling at Gas Station)	0.10	0.15	0.02	0.02
Delivery Trucks (Running + Starting)	0.07	8.62	0.38	0.19
Delivery Trucks (Idling)	0.06	0.77	0.0003	0.0003
TRUs	0.23	3.43	0.02	0.02
Gas Station (Evaporative)	32.34	0.00	0.00	0.00
Costco Generator	0.09	1.37	0.04	0.04
Hotel Generator	0.09	1.37	0.04	0.04
Existing 27,550 SF of Gen Light Industrial	0.87	1.78	0.97	0.28
Phase 1 Operational Emissions	**48.48**	**39.73**	**56.05**	**15.49**
Existing Emissions[1]	11.61	35.91	20.53	5.81
Net Phase 1 Operational Emissions	**36.87**	**3.82**	**35.52**	**9.68**
BAAQMD Threshold	54.00	54.00	82.00	54.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

Full Buildout Operations (2031)	ROG	NOX	PM10	PM2.5
Category	**Average Daily Emissions (lb/day)**			
Area	10.90	0.0003	0.0001	0.0001
Energy	0.17	1.53	0.12	0.12
Non-Delivery Vehicles (Running)	14.43	35.67	95.17	25.84
Light-Duty Vehicles (Idling at Gas Station)	0.09	0.14	0.02	0.02
Delivery Trucks (Running + Starting)	0.15	18.29	0.78	0.38
Delivery Trucks (Idling)	0.19	2.43	0.001	0.001
TRUs	0.63	9.28	0.06	0.06
Gas Station (Evaporative)	32.34	0.00	0.00	0.00
Costco Generator	0.09	1.37	0.04	0.04
Hotel Generator	0.09	1.37	0.04	0.04
Full Buildout Operational Emissions[1]	**59.09**	**70.07**	**96.22**	**26.49**
Existing Emissions[1]	11.61	35.91	20.53	5.81
Net Full Buildout Emissions	**47.48**	**34.16**	**75.70**	**20.68**
BAAQMD Threshold	54.00	54.00	82.00	54.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

1) Includes 27,550 SF of General Light Industrial

Total Annual Emissions

Phase 1 Operations (2021)	ROG	NOX	PM10	PM2.5
Category	**Annual Emissions (tons/year)**			
Area	1.07	0.00004	0.00001	0.00001
Energy	0.02	0.23	0.02	0.02
Non-Delivery Vehicles (Running)	2.55	6.66	9.98	2.73
Light-Duty Vehicles (Idling at Gas Station)	0.06	0.07	0.01	0.01
Delivery Trucks (Running + Starting)	0.03	1.60	0.07	0.04
Delivery Trucks (Idling)	0.01	0.16	0.0001	0.0001
TRUs	0.04	0.63	0.004	0.004
Gas Station (Evaporative)	5.90	0.00	0.00	0.00
Costco Generator	0.02	0.25	0.01	0.01
Hotel Generator	0.02	0.25	0.01	0.01
Existing 27,550 SF of Gen Light Industrial	0.16	0.32	0.18	0.05
Total Phase 1 Operational Emissions	**9.88**	**10.16**	**10.27**	**2.87**
Existing 27,550 SF of Gen Light Industrial	0.16	0.32	0.18	0.05
Net Phase 1 Operational Emissions	**9.72**	**9.84**	**10.10**	**2.82**
BAAQMD Threshold	10.00	10.00	15.00	10.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

Phase 1 Operations (2030)	ROG	NOX	PM10	PM2.5
Category	**Annual Emissions (tons/year)**			
Area	1.07	0.00	0.00001	0.00001
Energy	0.02	0.23	0.02	0.02
Non-Delivery Vehicles (Running)	1.57	3.83	9.94	2.70
Light-Duty Vehicles (Idling at Gas Station)	0.02	0.03	0.00	0.00
Delivery Trucks (Running + Starting)	0.01	1.57	0.07	0.03
Delivery Trucks (Idling)	0.01	0.14	0.0001	0.0001
TRUs	0.04	0.63	0.004	0.004
Gas Station (Evaporative)	5.90	0.00	0.00	0.00
Costco Generator	0.02	0.25	0.01	0.01
Hotel Generator	0.02	0.25	0.01	0.01
Existing 27,550 SF of Gen Light Industrial	0.16	0.32	0.18	0.05
Phase 1 Operational Emissions	**8.85**	**7.25**	**10.23**	**2.83**
Existing Emissions[1]	2.12	6.55	3.75	1.06
Net Phase 1 Operational Emissions	**6.73**	**0.70**	**6.48**	**1.77**
BAAQMD Threshold	10.00	10.00	15.00	10.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

Full Buildout Operations (2031)	ROG	NOX	PM10	PM2.5
Category	**Annual Emissions (tons/year)**			
Area	1.99	0.0001	0.00002	0.00002
Energy	0.03	0.28	0.02	0.02
Non-Delivery Vehicles (Running)	2.63	6.51	17.37	4.72
Light-Duty Vehicles (Idling at Gas Station)	0.02	0.03	0.004	0.003
Delivery Trucks (Running + Starting)	0.03	3.34	0.14	0.07
Delivery Trucks (Idling)	0.04	0.44	0.0002	0.0002
TRUs	0.11	1.69	0.01	0.01
Gas Station (Evaporative)	5.90	0.00	0.00	0.00
Costco Generator	0.02	0.25	0.01	0.01
Hotel Generator	0.02	0.25	0.01	0.01
Full Buildout Operational Emissions[1]	**10.78**	**12.79**	**17.56**	**4.83**
Existing Emissions[1]	2.12	6.55	3.75	1.06
Net Full Buildout Emissions	**8.67**	**6.23**	**13.81**	**3.77**
BAAQMD Threshold	10.00	10.00	15.00	10.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

1) Includes 27,550 SF of General Light Industrial

Construction + Operations

Average Daily Emissions

	ROG	NOX	PM10	PM2.5
2030/2031	**Average Daily Emissions (lb/day)**			
Construction	13.08	18.72	0.39	0.39
Operation	48.48	39.73	56.05	15.49
Project Emissions	**61.56**	**58.45**	**56.44**	**15.88**
Existing Emissions	11.61	35.91	20.53	5.81
Net Project Emissions	**49.95**	**22.55**	**35.91**	**10.07**
BAAQMD Threshold	54.00	54.00	82.00	54.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

Total Annual Emissions

	ROG	NOX	PM10	PM2.5
2030/2031	**Annual Emissions (tons/year)**			
Construction	1.71	2.45	0.05	0.05
Operation	8.85	7.25	10.23	2.83
Project Emissions	10.56	9.70	10.28	2.88
Existing Emissions	2.12	6.55	3.75	1.06
Net Project Emissions	**8.44**	**3.15**	**6.53**	**1.82**
BAAQMD Threshold	10.00	10.00	15.00	10.00
Exceeds Threshold?	**No**	**No**	**No**	**No**

CalEEMod Output – Phase 1 (2021)

Johnson Drive-Phase 1 Operations-2021

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	293.67	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor based on The Climate Registry's 2018 Emissions Factor Report

Land Use - Project Specific Information

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use - CalEEmod default 2016 T24 energy rates adjusted to represent 2019 T24 energy rates.

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	39.56	27.69
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004

tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	293.67
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	8.18
tblVehicleTrips	ST_TR	42.04	34.97
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	5.95	8.18

tblVehicleTrips	SU_TR	20.43	34.97
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	8.18
tblVehicleTrips	WD_TR	44.32	29.88

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4349	791.4349	0.1024	0.0000	793.9956
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1136	1,201.1136	0.1088	0.0000	1,203.8323
2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1136**	**1,201.1136**	**0.1088**	**0.0000**	**1,203.8323**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4346	791.4346	0.1024	0.0000	793.9953
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1133	1,201.1133	0.1088	0.0000	1,203.8320

2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1133**	**1,201.1133**	**0.1088**	**0.0000**	**1,203.8320**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.5628	1.5628
2	**7-6-2020**	**10-5-2020**	1.4619	1.4619
3	**10-6-2020**	**1-5-2021**	1.4718	1.4718
4	**1-6-2021**	**4-5-2021**	1.3091	1.3091
5	**4-6-2021**	**7-5-2021**	1.3094	1.3094
6	**7-6-2021**	**10-5-2021**	1.3246	1.3246
7	**10-6-2021**	**1-5-2022**	1.3200	1.3200
8	**1-6-2022**	**4-5-2022**	1.3848	1.3848
		Highest	1.5628	1.5628

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	546.5466	546.5466	0.0345	0.0107	550.5825
Mobile	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603

Water						0.0000	0.0000		0.0000	0.0000	5.5388	16.2016	21.7404	0.5705	0.0138	40.1040
Total	**3.6443**	**6.8842**	**32.2318**	**0.1044**	**9.8892**	**0.1060**	**9.9952**	**2.6513**	**0.1000**	**2.7513**	**163.6687**	**9,923.4136**	**10,087.0823**	**10.2344**	**0.0244**	**10,350.2180**

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	546.5466	546.5466	0.0345	0.0107	550.5825
Mobile	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603
Water						0.0000	0.0000		0.0000	0.0000	5.5388	16.2016	21.7404	0.5705	0.0138	40.1040
Total	**3.6443**	**6.8842**	**32.2318**	**0.1044**	**9.8892**	**0.1060**	**9.9952**	**2.6513**	**0.1000**	**2.7513**	**163.6687**	**9,923.4136**	**10,087.0823**	**10.2344**	**0.0244**	**10,350.2180**

	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	N20	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	Demolition	Demolition	4/6/2020	5/1/2020	5	20	
2	Site Preparation	Site Preparation	5/2/2020	5/15/2020	5	10	
3	Grading	Grading	5/16/2020	7/3/2020	5	35	

4	Building Construction	Building Construction	7/4/2020	12/3/2021	5	370	
5	Paving	Paving	12/4/2021	12/31/2021	5	20	
6	Architectural Coating	Architectural Coating	1/1/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 18.08

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 431,735; Non-Residential Outdoor: 143,912; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	436.00	176.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391
Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391

Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

3.3 Site Preparation - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

3.4 Grading - 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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3475	95.3475	0.0308	0.0000	96.1185
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3475**	**95.3475**	**0.0308**	**0.0000**	**96.1185**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3474	95.3474	0.0308	0.0000	96.1183
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3474**	**95.3474**	**0.0308**	**0.0000**	**96.1183**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

3.5 Building Construction - 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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3884	149.3884	0.0365	0.0000	150.2996
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3884**	**149.3884**	**0.0365**	**0.0000**	**150.2996**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010
Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3883	149.3883	0.0365	0.0000	150.2994
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3883**	**149.3883**	**0.0365**	**0.0000**	**150.2994**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010

Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

3.5 Building Construction - 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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1229	279.1229	0.0673	0.0000	280.8064
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1229**	**279.1229**	**0.0673**	**0.0000**	**280.8064**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453
Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1226	279.1226	0.0673	0.0000	280.8061
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1226**	**279.1226**	**0.0673**	**0.0000**	**280.8061**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453
Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

3.6 Paving - 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					

Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

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					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

3.7 Architectural Coating - 2022

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014
Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014

Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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	tons/yr										MT/yr					
Mitigated	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Unmitigated	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
Hotel	1,889.58	1,889.58	1889.58	5,314,548	5,314,548
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	149.40	174.85	174.85	437,134	437,134
Total	8,999.42	10,914.83	10,914.83	26,684,880	26,684,880

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0

Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	301.3954	301.3954	0.0298	6.1600e-003	303.9745
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	301.3954	301.3954	0.0298	6.1600e-003	303.9745
NaturalGas Mitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1512	245.1512	4.7000e-003	4.4900e-003	246.6080
NaturalGas Unmitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1512	245.1512	4.7000e-003	4.4900e-003	246.6080

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					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804
Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1512**	**245.1512**	**4.7000e-003**	**4.5000e-003**	**246.6080**

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	tons/yr										MT/yr					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804
Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1512**	**245.1512**	**4.7000e-003**	**4.5000e-003**	**246.6080**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.22648e+006	163.3745	0.0161	3.3400e-003	164.7726
Gasoline/Service Station	19459.6	2.5921	2.6000e-004	5.0000e-005	2.6143
Hotel	831600	110.7745	0.0109	2.2600e-003	111.7224
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	109924	14.6425	1.4500e-003	3.0000e-004	14.7678
Parking Lot	33724.2	4.4923	4.4000e-004	9.0000e-005	4.5307
Strip Mall	41435	5.5194	5.5000e-004	1.1000e-004	5.5666
Total		**301.3954**	**0.0298**	**6.1500e-003**	**303.9745**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.22648e+006	163.3745	0.0161	3.3400e-003	164.7726
Gasoline/Service Station	19459.6	2.5921	2.6000e-004	5.0000e-005	2.6143
Hotel	831600	110.7745	0.0109	2.2600e-003	111.7224
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Parking Lot	109924	14.6425	1.4500e-003	3.0000e-004	14.7678
Parking Lot	33724.2	4.4923	4.4000e-004	9.0000e-005	4.5307
Strip Mall	41435	5.5194	5.5000e-004	1.1000e-004	5.5666
Total		**301.3954**	**0.0298**	**6.1500e-003**	**303.9745**

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Unmitigated	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Total	**1.0687**	**4.0000e-005**	**3.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0400e-003**

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Total	**1.0687**	**4.0000e-005**	**3.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0400e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.7404	0.5705	0.0138	40.1040
Unmitigated	21.7404	0.5705	0.0138	40.1040

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	14.5123	0.3583	8.6600e-003	26.0508
Gasoline/Service Station	0.265638 / 0.16281	0.3517	8.6800e-003	2.1000e-004	0.6312
Hotel	5.85972 / 0.65108	6.3861	0.1914	4.6000e-003	12.5419
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4903	0.0121	2.9000e-004	0.8801
Total		**21.7404**	**0.5705**	**0.0138**	**40.1040**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	14.5123	0.3583	8.6600e-003	26.0508
Gasoline/Service Station	0.265638 / 0.16281	0.3517	8.6800e-003	2.1000e-004	0.6312
Hotel	5.85972 / 0.65108	6.3861	0.1914	4.6000e-003	12.5419
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4903	0.0121	2.9000e-004	0.8801

Total		**21.7404**	**0.5705**	**0.0138**	**40.1040**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	158.1300	9.3452	0.0000	391.7603
Unmitigated	158.1300	9.3452	0.0000	391.7603

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

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

CalEEMod Output – Phase 1 (2030)

Johnson Drive-Phase 1 Operations-2030

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor modified to reflect PG&E's 2030 RPS

Land Use - Project Specific Information

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use - CalEEmod default 2016 T24 energy rates adjusted to represent 2019 T24 energy rates.

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	39.56	27.69
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	LHD2	5.2740e-003	5.4306e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003
tblFleetMix	MCY	5.6260e-003	5.7734e-003

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MH	6.7600e-004	6.9182e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	OBUS	2.6990e-003	2.7879e-003
tblFleetMix	SBUS	9.2100e-004	9.5126e-004
tblFleetMix	SBUS	9.2100e-004	9.5126e-004
tblFleetMix	SBUS	9.2100e-004	9.5126e-004
tblFleetMix	SBUS	9.2100e-004	9.5126e-004
tblFleetMix	SBUS	9.2100e-004	9.5126e-004
tblFleetMix	SBUS	9.2100e-004	9.5126e-004

tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblFleetMix	UBUS	1.7890e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	8.18
tblVehicleTrips	ST_TR	42.04	34.97
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	5.95	8.18

tblVehicleTrips	SU_TR	20.43	34.97
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	8.18
tblVehicleTrips	WD_TR	44.32	29.88

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4349	791.4349	0.1024	0.0000	793.9956
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1136	1,201.1136	0.1088	0.0000	1,203.8323
2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1136**	**1,201.1136**	**0.1088**	**0.0000**	**1,203.8323**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4346	791.4346	0.1024	0.0000	793.9953
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1133	1,201.1133	0.1088	0.0000	1,203.8320

2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1133**	**1,201.1133**	**0.1088**	**0.0000**	**1,203.8320**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.5628	1.5628
2	**7-6-2020**	**10-5-2020**	1.4619	1.4619
3	**10-6-2020**	**1-5-2021**	1.4718	1.4718
4	**1-6-2021**	**4-5-2021**	1.3091	1.3091
5	**4-6-2021**	**7-5-2021**	1.3094	1.3094
6	**7-6-2021**	**10-5-2021**	1.3246	1.3246
7	**10-6-2021**	**1-5-2022**	1.3200	1.3200
8	**1-6-2022**	**4-5-2022**	1.3848	1.3848
		Highest	1.5628	1.5628

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	1.0687	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003
Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	528.4528	528.4528	0.0345	0.0107	532.4887
Mobile	1.5736	3.8346	18.8760	0.0780	9.8847	0.0563	9.9410	2.6493	0.0523	2.7016	0.0000	7,106.6099	7,106.6099	0.1770	0.0000	7,111.0358
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603

Water						0.0000	0.0000		0.0000	0.0000	5.5388	15.2290	20.7677	0.5705	0.0138	39.1314
Total	**2.6670**	**4.0599**	**19.0690**	**0.0793**	**9.8847**	**0.0734**	**9.9581**	**2.6493**	**0.0694**	**2.7187**	**163.6687**	**7,650.2992**	**7,813.9679**	**10.1272**	**0.0244**	**8,074.4242**

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	1.0687	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003
Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	528.4528	528.4528	0.0345	0.0107	532.4887
Mobile	1.5736	3.8346	18.8760	0.0780	9.8847	0.0563	9.9410	2.6493	0.0523	2.7016	0.0000	7,106.6099	7,106.6099	0.1770	0.0000	7,111.0358
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603
Water						0.0000	0.0000		0.0000	0.0000	5.5388	15.2290	20.7677	0.5705	0.0138	39.1314
Total	**2.6670**	**4.0599**	**19.0690**	**0.0793**	**9.8847**	**0.0734**	**9.9581**	**2.6493**	**0.0694**	**2.7187**	**163.6687**	**7,650.2992**	**7,813.9679**	**10.1272**	**0.0244**	**8,074.4242**

	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**	**N20**	**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	Demolition	Demolition	4/6/2020	5/1/2020	5	20	
2	Site Preparation	Site Preparation	5/2/2020	5/15/2020	5	10	
3	Grading	Grading	5/16/2020	7/3/2020	5	35	

4	Building Construction	Building Construction	7/4/2020	12/3/2021	5	370	
5	Paving	Paving	12/4/2021	12/31/2021	5	20	
6	Architectural Coating	Architectural Coating	1/1/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 18.08

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 431,735; Non-Residential Outdoor: 143,912; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	436.00	176.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391
Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391

Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

3.3 Site Preparation - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

3.4 Grading - 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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3475	95.3475	0.0308	0.0000	96.1185
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3475**	**95.3475**	**0.0308**	**0.0000**	**96.1185**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3474	95.3474	0.0308	0.0000	96.1183
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3474**	**95.3474**	**0.0308**	**0.0000**	**96.1183**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

3.5 Building Construction - 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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3884	149.3884	0.0365	0.0000	150.2996
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3884**	**149.3884**	**0.0365**	**0.0000**	**150.2996**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010
Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3883	149.3883	0.0365	0.0000	150.2994
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3883**	**149.3883**	**0.0365**	**0.0000**	**150.2994**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010

Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

3.5 Building Construction - 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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1229	279.1229	0.0673	0.0000	280.8064
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1229**	**279.1229**	**0.0673**	**0.0000**	**280.8064**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453
Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1226	279.1226	0.0673	0.0000	280.8061
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1226**	**279.1226**	**0.0673**	**0.0000**	**280.8061**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453
Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

3.6 Paving - 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					

Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

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					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

3.7 Architectural Coating - 2022

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014
Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014

Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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	tons/yr										MT/yr					
Mitigated	1.5736	3.8346	18.8760	0.0780	9.8847	0.0563	9.9410	2.6493	0.0523	2.7016	0.0000	7,106.6099	7,106.6099	0.1770	0.0000	7,111.0358
Unmitigated	1.5736	3.8346	18.8760	0.0780	9.8847	0.0563	9.9410	2.6493	0.0523	2.7016	0.0000	7,106.6099	7,106.6099	0.1770	0.0000	7,111.0358

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
Hotel	1,889.58	1,889.58	1889.58	5,314,548	5,314,548
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	149.40	174.85	174.85	437,134	437,134
Total	8,999.42	10,914.83	10,914.83	26,684,880	26,684,880

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0

Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	283.3016	283.3016	0.0298	6.1600e-003	285.8807
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	283.3016	283.3016	0.0298	6.1600e-003	285.8807
NaturalGas Mitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1512	245.1512	4.7000e-003	4.4900e-003	246.6080
NaturalGas Unmitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1512	245.1512	4.7000e-003	4.4900e-003	246.6080

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					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804
Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1512**	**245.1512**	**4.7000e-003**	**4.5000e-003**	**246.6080**

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	tons/yr										MT/yr					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804
Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1512**	**245.1512**	**4.7000e-003**	**4.5000e-003**	**246.6080**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.22648e+006	153.5666	0.0161	3.3400e-003	154.9647
Gasoline/Service Station	19459.6	2.4365	2.6000e-004	5.0000e-005	2.4587
Hotel	831600	104.1243	0.0109	2.2600e-003	105.0723
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	109924	13.7635	1.4500e-003	3.0000e-004	13.8888
Parking Lot	33724.2	4.2226	4.4000e-004	9.0000e-005	4.2610
Strip Mall	41435	5.1881	5.5000e-004	1.1000e-004	5.2353
Total		**283.3016**	**0.0298**	**6.1500e-003**	**285.8807**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.22648e+006	153.5666	0.0161	3.3400e-003	154.9647
Gasoline/Service Station	19459.6	2.4365	2.6000e-004	5.0000e-005	2.4587
Hotel	831600	104.1243	0.0109	2.2600e-003	105.0723
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Parking Lot	109924	13.7635	1.4500e-003	3.0000e-004	13.8888
Parking Lot	33724.2	4.2226	4.4000e-004	9.0000e-005	4.2610
Strip Mall	41435	5.1881	5.5000e-004	1.1000e-004	5.2353
Total		**283.3016**	**0.0298**	**6.1500e-003**	**285.8807**

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	1.0687	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003
Unmitigated	1.0687	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003
Total	**1.0687**	**3.0000e-005**	**3.8600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0300e-003**

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	3.0000e-005	3.8600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0300e-003
Total	**1.0687**	**3.0000e-005**	**3.8600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.7677	0.5705	0.0138	39.1314
Unmitigated	20.7677	0.5705	0.0138	39.1314

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Discount Club	10.9627 / 6.71909	13.8499	0.3583	8.6600e-003	25.3884
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4679	0.0121	2.9000e-004	0.8577
Total		**20.7677**	**0.5705**	**0.0138**	**39.1314**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	13.8499	0.3583	8.6600e-003	25.3884
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4679	0.0121	2.9000e-004	0.8577
Total		**20.7677**	**0.5705**	**0.0138**	**39.1314**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	158.1300	9.3452	0.0000	391.7603
Unmitigated	158.1300	9.3452	0.0000	391.7603

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

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

CalEEMod Output – Full-Buildout (2031)

Johnson Drive-Full Buildout Operations-2031

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	222.94	1000sqft	5.12	222,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2031
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor modified to reflect PG&E's 2030 RPS

Land Use - Project Specific Information

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use - CalEEmod default 2016 T24 energy rates adjusted to represent 2019 T24 energy rates.

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.68
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	39.56	27.69
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60

tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003

tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004

tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00

tblVehicleTrips	ST_TR	53.75	59.80
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	8.18
tblVehicleTrips	ST_TR	42.04	34.97
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	1.32
tblVehicleTrips	SU_TR	5.95	8.18
tblVehicleTrips	SU_TR	20.43	34.97
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	8.18
tblVehicleTrips	WD_TR	44.32	29.88

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4296	4.4633	2.9692	7.2900e-003	0.7646	0.1820	0.9466	0.3295	0.1684	0.4980	0.0000	656.4368	656.4368	0.1283	0.0000	659.6431
2021	0.6825	6.7382	5.4549	0.0218	1.0528	0.1395	1.1923	0.2863	0.1312	0.4175	0.0000	2,022.4875	2,022.4875	0.1397	0.0000	2,025.9808
2022	0.6253	6.2303	5.1633	0.0214	1.0487	0.1182	1.1669	0.2852	0.1112	0.3964	0.0000	1,980.2791	1,980.2791	0.1349	0.0000	1,983.6515
2023	1.8613	3.8538	3.8459	0.0152	0.7443	0.0839	0.8282	0.2023	0.0786	0.2809	0.0000	1,406.5002	1,406.5002	0.1053	0.0000	1,409.1334
2024	1.6950	0.0218	0.0672	1.9000e-004	0.0180	1.0200e-003	0.0190	4.7900e-003	1.0200e-003	5.8100e-003	0.0000	17.3814	17.3814	4.6000e-004	0.0000	17.3929

Maximum	**1.8613**	**6.7382**	**5.4549**	**0.0218**	**1.0528**	**0.1820**	**1.1923**	**0.3295**	**0.1684**	**0.4980**	**0.0000**	**2,022.4875**	**2,022.4875**	**0.1397**	**0.0000**	**2,025.9808**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4296	4.4633	2.9692	7.2900e-003	0.7646	0.1820	0.9466	0.3295	0.1684	0.4980	0.0000	656.4364	656.4364	0.1283	0.0000	659.6426
2021	0.6825	6.7382	5.4549	0.0218	1.0528	0.1395	1.1923	0.2863	0.1312	0.4175	0.0000	2,022.4871	2,022.4871	0.1397	0.0000	2,025.9804
2022	0.6253	6.2303	5.1633	0.0214	1.0487	0.1182	1.1669	0.2852	0.1112	0.3964	0.0000	1,980.2788	1,980.2788	0.1349	0.0000	1,983.6511
2023	1.8613	3.8538	3.8459	0.0152	0.7443	0.0839	0.8282	0.2023	0.0786	0.2809	0.0000	1,406.4998	1,406.4998	0.1053	0.0000	1,409.1331
2024	1.6950	0.0218	0.0672	1.9000e-004	0.0180	1.0200e-003	0.0190	4.7900e-003	1.0200e-003	5.8100e-003	0.0000	17.3814	17.3814	4.6000e-004	0.0000	17.3929
Maximum	**1.8613**	**6.7382**	**5.4549**	**0.0218**	**1.0528**	**0.1820**	**1.1923**	**0.3295**	**0.1684**	**0.4980**	**0.0000**	**2,022.4871**	**2,022.4871**	**0.1397**	**0.0000**	**2,025.9804**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.2715	1.2715
2	**7-6-2020**	**10-5-2020**	1.7439	1.7439
3	**10-6-2020**	**1-5-2021**	1.9713	1.9713
4	**1-6-2021**	**4-5-2021**	1.8385	1.8385
5	**4-6-2021**	**7-5-2021**	1.8338	1.8338
6	**7-6-2021**	**10-5-2021**	1.8554	1.8554
7	**10-6-2021**	**1-5-2022**	1.8734	1.8734
8	**1-6-2022**	**4-5-2022**	1.7046	1.7046

9	**4-6-2022**	**7-5-2022**	1.7013	1.7013
10	**7-6-2022**	**10-5-2022**	1.7213	1.7213
11	**10-6-2022**	**1-5-2023**	1.7278	1.7278
12	**1-6-2023**	**4-5-2023**	1.4165	1.4165
13	**4-6-2023**	**7-5-2023**	1.4148	1.4148
14	**7-6-2023**	**10-5-2023**	1.1305	1.1305
15	**10-6-2023**	**1-5-2024**	1.9419	1.9419
16	**1-6-2024**	**4-5-2024**	1.4315	1.4315
		Highest	1.9713	1.9713

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	860.8221	860.8221	0.0644	0.0177	867.6988
Mobile	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Waste						0.0000	0.0000		0.0000	0.0000	212.5823	0.0000	212.5823	12.5633	0.0000	526.6636
Water						0.0000	0.0000		0.0000	0.0000	12.7990	35.1690	47.9680	1.3183	0.0318	90.4027
Total	**4.6540**	**6.7882**	**31.8779**	**0.1354**	**17.2757**	**0.1134**	**17.3891**	**4.6302**	**0.1068**	**4.7370**	**225.3813**	**13,097.8405**	**13,323.2218**	**14.2462**	**0.0495**	**13,694.1233**

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	860.8221	860.8221	0.0644	0.0177	867.6988
Mobile	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Waste						0.0000	0.0000		0.0000	0.0000	212.5823	0.0000	212.5823	12.5633	0.0000	526.6636
Water						0.0000	0.0000		0.0000	0.0000	12.7990	35.1690	47.9680	1.3183	0.0318	90.4027
Total	**4.6540**	**6.7882**	**31.8779**	**0.1354**	**17.2757**	**0.1134**	**17.3891**	**4.6302**	**0.1068**	**4.7370**	**225.3813**	**13,097.8405**	**13,323.2218**	**14.2462**	**0.0495**	**13,694.1233**

	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	N20	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	Demolition	Demolition	4/6/2020	6/12/2020	5	50	
2	Site Preparation	Site Preparation	6/13/2020	7/24/2020	5	30	
3	Grading	Grading	7/25/2020	11/6/2020	5	75	
4	Building Construction	Building Construction	11/7/2020	9/8/2023	5	740	
5	Paving	Paving	9/9/2023	11/24/2023	5	55	
6	Architectural Coating	Architectural Coating	11/25/2023	2/9/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 807,470; Non-Residential Outdoor: 269,157; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	762.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	152.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9965	84.9965	0.0240	0.0000	85.5964
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9965**	**84.9965**	**0.0240**	**0.0000**	**85.5964**

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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976
Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9964	84.9964	0.0240	0.0000	85.5963
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9964**	**84.9964**	**0.0240**	**0.0000**	**85.5963**

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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976
Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

3.3 Site Preparation - 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5515
Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5515**

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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5514

Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5514**

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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

3.4 Grading - 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3161	204.3161	0.0661	0.0000	205.9681
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3161**	**204.3161**	**0.0661**	**0.0000**	**205.9681**

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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3159	204.3159	0.0661	0.0000	205.9679
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3159**	**204.3159**	**0.0661**	**0.0000**	**205.9679**

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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

3.5 Building Construction - 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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1640	45.1640	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1640**	**45.1640**	**0.0110**	**0.0000**	**45.4394**

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	0.0235	0.7020	0.1765	1.6600e-003	0.0399	3.4200e-003	0.0433	0.0115	3.2700e-003	0.0148	0.0000	159.2909	159.2909	8.2200e-003	0.0000	159.4963
Worker	0.0493	0.0352	0.3650	1.1400e-003	0.1174	7.9000e-004	0.1182	0.0312	7.3000e-004	0.0320	0.0000	102.8660	102.8660	2.4900e-003	0.0000	102.9282
Total	**0.0728**	**0.7372**	**0.5414**	**2.8000e-003**	**0.1573**	**4.2100e-003**	**0.1615**	**0.0428**	**4.0000e-003**	**0.0468**	**0.0000**	**262.1569**	**262.1569**	**0.0107**	**0.0000**	**262.4246**

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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1639	45.1639	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1639**	**45.1639**	**0.0110**	**0.0000**	**45.4394**

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	0.0235	0.7020	0.1765	1.6600e-003	0.0399	3.4200e-003	0.0433	0.0115	3.2700e-003	0.0148	0.0000	159.2909	159.2909	8.2200e-003	0.0000	159.4963
Worker	0.0493	0.0352	0.3650	1.1400e-003	0.1174	7.9000e-004	0.1182	0.0312	7.3000e-004	0.0320	0.0000	102.8660	102.8660	2.4900e-003	0.0000	102.9282
Total	**0.0728**	**0.7372**	**0.5414**	**2.8000e-003**	**0.1573**	**4.2100e-003**	**0.1615**	**0.0428**	**4.0000e-003**	**0.0468**	**0.0000**	**262.1569**	**262.1569**	**0.0107**	**0.0000**	**262.4246**

3.5 Building Construction - 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					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

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	0.1293	4.2528	1.0615	0.0110	0.2670	9.2500e-003	0.2763	0.0772	8.8500e-003	0.0861	0.0000	1,055.9448	1,055.9448	0.0519	0.0000	1,057.2426
Worker	0.3052	0.2106	2.2303	7.3400e-003	0.7858	5.1400e-003	0.7909	0.2090	4.7300e-003	0.2138	0.0000	664.2560	664.2560	0.0149	0.0000	664.6283
Total	**0.4344**	**4.4633**	**3.2918**	**0.0183**	**1.0528**	**0.0144**	**1.0672**	**0.2863**	**0.0136**	**0.2998**	**0.0000**	**1,720.2008**	**1,720.2008**	**0.0668**	**0.0000**	**1,721.8709**

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					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

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	0.1293	4.2528	1.0615	0.0110	0.2670	9.2500e-003	0.2763	0.0772	8.8500e-003	0.0861	0.0000	1,055.9448	1,055.9448	0.0519	0.0000	1,057.2426
Worker	0.3052	0.2106	2.2303	7.3400e-003	0.7858	5.1400e-003	0.7909	0.2090	4.7300e-003	0.2138	0.0000	664.2560	664.2560	0.0149	0.0000	664.6283
Total	**0.4344**	**4.4633**	**3.2918**	**0.0183**	**1.0528**	**0.0144**	**1.0672**	**0.2863**	**0.0136**	**0.2998**	**0.0000**	**1,720.2008**	**1,720.2008**	**0.0668**	**0.0000**	**1,721.8709**

3.5 Building Construction - 2022

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

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	0.1201	4.0122	0.9943	0.0108	0.2660	7.9900e-003	0.2740	0.0769	7.6400e-003	0.0846	0.0000	1,041.5847	1,041.5847	0.0494	0.0000	1,042.8202
Worker	0.2834	0.1881	2.0418	7.0500e-003	0.7828	5.0000e-003	0.7878	0.2082	4.6100e-003	0.2128	0.0000	637.4516	637.4516	0.0133	0.0000	637.7842
Total	**0.4035**	**4.2003**	**3.0361**	**0.0179**	**1.0487**	**0.0130**	**1.0617**	**0.2852**	**0.0123**	**0.2974**	**0.0000**	**1,679.0363**	**1,679.0363**	**0.0627**	**0.0000**	**1,680.6044**

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

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	0.1201	4.0122	0.9943	0.0108	0.2660	7.9900e-003	0.2740	0.0769	7.6400e-003	0.0846	0.0000	1,041.5847	1,041.5847	0.0494	0.0000	1,042.8202
Worker	0.2834	0.1881	2.0418	7.0500e-003	0.7828	5.0000e-003	0.7878	0.2082	4.6100e-003	0.2128	0.0000	637.4516	637.4516	0.0133	0.0000	637.7842
Total	**0.4035**	**4.2003**	**3.0361**	**0.0179**	**1.0487**	**0.0130**	**1.0617**	**0.2852**	**0.0123**	**0.2974**	**0.0000**	**1,679.0363**	**1,679.0363**	**0.0627**	**0.0000**	**1,680.6044**

3.5 Building Construction - 2023

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6243	208.6243	0.0496	0.0000	209.8650
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6243**	**208.6243**	**0.0496**	**0.0000**	**209.8650**

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	0.0624	2.1416	0.6162	7.2800e-003	0.1842	2.4600e-003	0.1866	0.0533	2.3500e-003	0.0556	0.0000	700.8879	700.8879	0.0292	0.0000	701.6169
Worker	0.1835	0.1171	1.3003	4.6900e-003	0.5419	3.3900e-003	0.5453	0.1442	3.1200e-003	0.1473	0.0000	424.4115	424.4115	8.2600e-003	0.0000	424.6179
Total	**0.2458**	**2.2587**	**1.9164**	**0.0120**	**0.7261**	**5.8500e-003**	**0.7319**	**0.1974**	**5.4700e-003**	**0.2029**	**0.0000**	**1,125.2994**	**1,125.2994**	**0.0374**	**0.0000**	**1,126.2349**

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6240	208.6240	0.0496	0.0000	209.8647
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6240**	**208.6240**	**0.0496**	**0.0000**	**209.8647**

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	0.0624	2.1416	0.6162	7.2800e-003	0.1842	2.4600e-003	0.1866	0.0533	2.3500e-003	0.0556	0.0000	700.8879	700.8879	0.0292	0.0000	701.6169
Worker	0.1835	0.1171	1.3003	4.6900e-003	0.5419	3.3900e-003	0.5453	0.1442	3.1200e-003	0.1473	0.0000	424.4115	424.4115	8.2600e-003	0.0000	424.6179
Total	**0.2458**	**2.2587**	**1.9164**	**0.0120**	**0.7261**	**5.8500e-003**	**0.7319**	**0.1974**	**5.4700e-003**	**0.2029**	**0.0000**	**1,125.2994**	**1,125.2994**	**0.0374**	**0.0000**	**1,126.2349**

3.6 Paving - 2023

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					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0739**	**55.0739**	**0.0178**	**0.0000**	**55.5192**

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

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					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191

Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0738**	**55.0738**	**0.0178**	**0.0000**	**55.5191**

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

3.7 Architectural Coating - 2023

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					
Archit. Coating	1.4055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4079**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

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	5.0800e-003	3.2400e-003	0.0360	1.3000e-004	0.0150	9.0000e-005	0.0151	3.9900e-003	9.0000e-005	4.0800e-003	0.0000	11.7583	11.7583	2.3000e-004	0.0000	11.7640
Total	**5.0800e-003**	**3.2400e-003**	**0.0360**	**1.3000e-004**	**0.0150**	**9.0000e-005**	**0.0151**	**3.9900e-003**	**9.0000e-005**	**4.0800e-003**	**0.0000**	**11.7583**	**11.7583**	**2.3000e-004**	**0.0000**	**11.7640**

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					
Archit. Coating	1.4055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4079**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

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	5.0800e-003	3.2400e-003	0.0360	1.3000e-004	0.0150	9.0000e-005	0.0151	3.9900e-003	9.0000e-005	4.0800e-003	0.0000	11.7583	11.7583	2.3000e-004	0.0000	11.7640
Total	**5.0800e-003**	**3.2400e-003**	**0.0360**	**1.3000e-004**	**0.0150**	**9.0000e-005**	**0.0151**	**3.9900e-003**	**9.0000e-005**	**4.0800e-003**	**0.0000**	**11.7583**	**11.7583**	**2.3000e-004**	**0.0000**	**11.7640**

3.7 Architectural Coating - 2024

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					
Archit. Coating	1.6866					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.6893**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

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	5.7300e-003	3.5100e-003	0.0400	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7900e-003	1.0000e-004	4.8900e-003	0.0000	13.5515	13.5515	2.5000e-004	0.0000	13.5577
Total	**5.7300e-003**	**3.5100e-003**	**0.0400**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7900e-003**	**1.0000e-004**	**4.8900e-003**	**0.0000**	**13.5515**	**13.5515**	**2.5000e-004**	**0.0000**	**13.5577**

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					
Archit. Coating	1.6866					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.6893**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

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	5.7300e-003	3.5100e-003	0.0400	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7900e-003	1.0000e-004	4.8900e-003	0.0000	13.5515	13.5515	2.5000e-004	0.0000	13.5577
Total	**5.7300e-003**	**3.5100e-003**	**0.0400**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7900e-003**	**1.0000e-004**	**4.8900e-003**	**0.0000**	**13.5515**	**13.5515**	**2.5000e-004**	**0.0000**	**13.5577**

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	tons/yr										MT/yr					
Mitigated	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Unmitigated	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	192.02	36.37	36.37	461,783	461,783
Hotel	1,889.58	1,889.58	1889.58	5,314,548	5,314,548
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	149.40	174.85	174.85	437,134	437,134
Strip Mall	6,661.45	7,796.21	7796.21	19,490,935	19,490,935
Total	15,852.89	18,747.41	18,747.41	46,637,598	46,637,598

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	100	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0

Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
General Light Industry	0.586201	0.036350	0.193475	0.106225	0.012556	0.005275	0.019589	0.028655	0.002708	0.001761	0.005608	0.000924	0.000672
Hotel	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	557.1507	557.1507	0.0585	0.0121	562.2229
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	557.1507	557.1507	0.0585	0.0121	562.2229
NaturalGas Mitigated	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.6713	303.6713	5.8200e-003	5.5700e-003	305.4759
NaturalGas Unmitigated	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.6713	303.6713	5.8200e-003	5.5700e-003	305.4759

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					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804

Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	369857	1.9900e-003	0.0181	0.0152	1.1000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	19.7370	19.7370	3.8000e-004	3.6000e-004	19.8543
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0307**	**0.2790**	**0.2343**	**1.6700e-003**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**303.6713**	**303.6713**	**5.8200e-003**	**5.5700e-003**	**305.4759**

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	tons/yr										MT/yr					
Discount Club	245532	1.3200e-003	0.0120	0.0101	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.1025	13.1025	2.5000e-004	2.4000e-004	13.1804
Gasoline/Service Station	57788.6	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0838	3.0838	6.0000e-005	6.0000e-005	3.1021
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	4.28234e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5222	228.5222	4.3800e-003	4.1900e-003	229.8802
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	369857	1.9900e-003	0.0181	0.0152	1.1000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	19.7370	19.7370	3.8000e-004	3.6000e-004	19.8543
Strip Mall	8295	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4427	0.4427	1.0000e-005	1.0000e-005	0.4453
Total		**0.0307**	**0.2790**	**0.2343**	**1.6700e-003**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**303.6713**	**303.6713**	**5.8200e-003**	**5.5700e-003**	**305.4759**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.22648e+006	153.5666	0.0161	3.3400e-003	154.9647
Gasoline/Service Station	19459.6	2.4365	2.6000e-004	5.0000e-005	2.4587
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	831600	104.1243	0.0109	2.2600e-003	105.0723
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	109924	13.7635	1.4500e-003	3.0000e-004	13.8888
Parking Lot	112058	14.0308	1.4700e-003	3.0000e-004	14.1585
Parking Lot	33724.2	4.2226	4.4000e-004	9.0000e-005	4.2610
Strip Mall	1.8475e+006	231.3253	0.0243	5.0300e-003	233.4312
Strip Mall	41435	5.1881	5.5000e-004	1.1000e-004	5.2353
Total		**557.1507**	**0.0585**	**0.0121**	**562.2229**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Discount Club	1.22648e+006	153.5666	0.0161	3.3400e-003	154.9647
Gasoline/Service Station	19459.6	2.4365	2.6000e-004	5.0000e-005	2.4587
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	831600	104.1243	0.0109	2.2600e-003	105.0723
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	109924	13.7635	1.4500e-003	3.0000e-004	13.8888
Parking Lot	112058	14.0308	1.4700e-003	3.0000e-004	14.1585
Parking Lot	33724.2	4.2226	4.4000e-004	9.0000e-005	4.2610
Strip Mall	1.8475e+006	231.3253	0.0243	5.0300e-003	233.4312
Strip Mall	41435	5.1881	5.5000e-004	1.1000e-004	5.2353
Total		**557.1507**	**0.0585**	**0.0121**	**562.2229**

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Unmitigated	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

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	0.3092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**1.9897**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

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	0.3092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**1.9897**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.9680	1.3183	0.0318	90.4027

Unmitigated	47.9680	1.3183	0.0318	90.4027

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	13.8499	0.3583	8.6600e-003	25.3884
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	21.3307	0.5519	0.0133	39.1015
Total		**47.9680**	**1.3183**	**0.0318**	**90.4027**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	13.8499	0.3583	8.6600e-003	25.3884

Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	21.3307	0.5519	0.0133	39.1015
Total		**47.9680**	**1.3183**	**0.0318**	**90.4027**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	212.5823	12.5633	0.0000	526.6636
Unmitigated	212.5823	12.5633	0.0000	526.6636

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968

Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**212.5823**	**12.5633**	**0.0000**	**526.6636**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**212.5823**	**12.5633**	**0.0000**	**526.6636**

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

Project Trip Counts

Project Trip Generation

Table 1: Existing Trips Generation Estimates

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips	Saturday Trips
Church	20.000	1000sqft	9.00	10.50	180	210
General Retail	53.363	1000sqft	42.73	50.03	2,280	2,670
Office	15.070	1000sqft	11.28	2.65	170	40
Light Industrial	136.225	1000sqft	6.97	1.32	950	180
Vacant	**349.035**	1000sqft	0.00	0.00	0	0
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		***3,580***	***3,100***
Church	9.00	10.50	10.50			
General Retail	42.73	50.03	50.03			
Office	11.28	2.65	2.65			
Light Industrial	6.97	1.32	1.32			

Table 2: Updated Trips Generation Estimates (Phase 1)

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
General Retail	5.000	1000sqft	30.00	35.00	150	175
Club Retail with Fuel	148.000	1000sqft	47.03	59.80	6,960	8,850
Hotel (231 Rooms)	132.000	1000sqft	14.32	14.32	1,890	1,890
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		***9,000***	***10,915***
Retail	30.00	35.00	35.00			
Club Retail with Fuel	47.03	59.80	59.80			
Hotel (231 Rooms)[2]	8.18	8.18	8.18			

Land Use	Weighted Daily Trips (In/Out)
General Retail	158
Club Retail with Fuel	7,500
Hotel (231 Rooms)	1,890

Table 3: Updated Trips Generation Estimates (Phase 2)

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
Retail *	222.940	1000sqft	29.88	34.97	6,661	7,795
Light Industrial[3]	27.550	1000sqft	6.90	1.45	190	40
Trip Rates for CalEEMod	**Weekday Trip Rate**	**Saturday Trip Rate**	**Sunday Trip Rate**		6,851	7,835
Retail	29.88	34.97	34.97			
Light Industrial	6.90	1.45	1.45			

*Does not include 5,000sf of retail from Phase 1

Land Use	Weighted Daily Trips (In/Out)
General Retail	6,986

Table 4: Full Buildout Trip Generation Estimates

Land Use	Size	Unit	Weekday Trip Rate	Saturday Trip Rate	Weekday Trips (In/Out)	Saturday Trips (In/Out)
General Retail	5.00	1000sqft	30.000	35.000	150	175
Club Retail with Fuel	148.00	1000sqft	47.027	59.797	6,960	8,850
Hotel (231 Rooms)	132.00	1000sqft	14.318	14.318	1,890	1,890
Retail *	222.94	1000sqft	29.876	34.965	6,661	7,795
Light Industrial[3]	27.55	1000sqft	6.897	1.452	190	40
				Project Buildout	15,851	18,750
				Existing	3,580	3,100
				Net New Trips	12,271	15,650

Hotel/Retail Trucks

Land Use	Weighted Daily Truck Trips (In/Out)	Weighted Daily Trucks
Phase 1-Retail	4.6	2.3
Phase 1-Hotel	55.1	27.6
Phase 2-Retail	204	102

1) Johnson Drive Economic Development Zone Transportation Impact Analysis, Fehr & Peers, 2015.
2) CalEEMod uses vehicle trips per room instead of SF
3) Not including trucks for Light Industrial since it will remain unchanged

Generator Emissions

Table 6: Costco Emergency Generator Emissions

Conversion Factors

HP/kW	1.3410	
PM10 Fraction of Total PM[1]	0.960	
PM2.5 Fraction of Total PM[2]	0.937	
NMHC frac - diesel[3]	5%	
NOX frac - diesel[3]	95%	
Ratings:	1,000	kW
	1,341	HP
Load Factor[4]:	0.74	
Operating Hours per Unit[5]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

Units	VOC [7]	NOX [7]	PM10	PM2.5
g/kW-hr			—	—
g/HP-hr[6]	0.31	4.56	0.1440	0.1406
lbs/hr	0.68	9.98	0.32	0.31
lbs/day	**1.35**	**19.95**	**0.63**	**0.61**
lbs/yr	33.79	498.80	15.75	15.37
Avg lbs/day	0.09	1.37	0.04	0.04
tons/yr	1.69E-02	2.49E-01	7.88E-03	7.69E-03

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

3 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

4 Load Factor based on CalEEMod Generator Set Load Factor

5 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

6 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

7 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr, using the same fractions and VOC to NMHC or TC conversion factors as Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced above.

Source: ESA 2018.

Table 7: Hotel Emergency Generator Emissions

Conversion Factors

HP/kW	1.3410	
PM10 Fraction of Total PM[1]	0.960	
PM2.5 Fraction of Total PM[2]	0.937	
NMHC frac - diesel[3]	5%	
NOX frac - diesel[3]	95%	
Ratings:	1,000	kW
	1,341	HP
Load Factor[4]:	0.74	
Operating Hours per Unit[5]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

Units	VOC [7]	NOX [7]	PM10	PM2.5
g/kW-hr	—	—	—	—
g/HP-hr[6]	0.31	4.56	0.1440	0.1406
lbs/hr	0.68	9.98	0.32	0.31
lbs/day	**1.35**	**19.95**	**0.63**	**0.61**
lbs/yr	33.79	498.80	15.75	15.37
Avg lbs/day	0.09	1.37	0.04	0.04
tons/yr	**0.02**	**0.25**	**7.88E-03**	**7.69E-03**

Notes:

1 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

2 Table A - Updated CEIDARS Table with PM2.5 Fractions, INTERNAL COMBUSTION - DISTILLATE AND DIESEL-ELECTRIC GENERATION

3 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox: http://www.baaqmd.gov/~/media/Files/Engineering/policy_and_procedures/Engines/EmissionFactorsforDieselEngines.ashx

4 Load Factor based on CalEEMod Generator Set Load Factor

5 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

6 ARB 2011 Final Regulation Order for the ATCM for stationary engines, Table 1, Model year 2008+: https://www.arb.ca.gov/regact/2010/atcm2010/finalregorder.pdf

7 VOC and NOx emission factor were calculated from the combined NMHC+NOx emission factor of 4.8 g/bhp-hr, using the same fractions and VOC to NMHC or TC conversion Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced above.

Source: ESA 2018.

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Vehicle Emissions

Table 9: Light-Duty Vehicle Idling Emissions at Gas Station

Phase	Trips per Day (In/Out)	# of Cars Idling per Day	Idling Duration (min)
Phase 1A-Costco Gas Station	3371	1686	10

Emission Factors

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
g/min				g/min				g/min			
8.11E-03	1.04E-02	8.85E-04	8.46E-04	2.71E-03	4.08E-03	5.75E-04	5.28E-04	2.47E-03	3.83E-03	5.40E-04	4.96E-04

Daily Emissions

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
lbs/day				lbs/day				lbs/day			
3.01E-01	3.85E-01	3.29E-02	3.14E-02	1.01E-01	1.51E-01	2.14E-02	1.96E-02	9.18E-02	1.42E-01	2.01E-02	1.84E-02

Annual Emissions

2021				2030				2031			
ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
lbs/year				lbs/year				lbs/year			
110.0	140.5	12.0	11.5	36.7	55.3	7.8	7.2	33.5	51.9	7.3	6.7
Tons/year				Tons/year				Tons/year			
0.0550	0.0702	0.0060	0.0057	0.0183	0.0276	0.0039	0.0036	0.0168	0.0260	0.0037	0.0034

Table 10: HHDT Running and Starting Exhaust Emissions

Williams, California 95987	# of Trucks per Day	Truck Trips per Day (In/Out)	Truck Trips per Hour (In/Out)	Trip Length (mi)
Fedex	390	780	78	7.3
Costco	10	20	2	24.5
Gas Station	8	16	2	30.0
Phase 1 - Retail/Hotel	30	60	6	7.3
Phase 2- Trucks	102	204	20	7.3

Emissions Factors

	2021								2030								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
	Emission Factor (g/mi)								Emission Factor (g/mi)								Emission Factor (g/mi)							
Running - Costco Trucks	1.98E-02	2.04E+00	2.49E-02	3.56E-02	6.11E-02	2.38E-02	8.90E-03	2.62E-02	2.34E-02	2.66E+00	2.84E-02	3.53E-02	6.05E-02	2.72E-02	8.82E-03	2.59E-02	2.33E-02	2.63E+00	2.84E-02	3.52E-02	6.04E-02	2.72E-02	8.80E-03	2.59E-02
Running - All Other Trucks	1.36E-01	4.12E+00	6.07E-02	3.55E-02	6.08E-02	5.81E-02	8.86E-03	2.61E-02	2.29E-02	2.53E+00	2.38E-02	3.55E-02	6.10E-02	2.28E-02	8.89E-03	2.61E-02	2.28E-02	2.52E+00	2.37E-02	3.56E-02	6.10E-02	2.27E-02	8.89E-03	2.61E-02
Starting - Costco Trucks		2.39E+00								2.41E+00								7.19E+00						
Starting - All Other Trucks		1.90E+00								2.39E+00								2.39E+00						

DAILY	2021								2030								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
Source	Emissions (lb/day)								Emissions (lb/day)								Emissions (lb/day)							
Costco	0.0	2.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.1	0.0	0.0	0.0
Gas Station	0.0	2.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.1	0.0	0.0	0.0
Phase 1 - Retail/Hotel	0.1	4.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	2.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.1	0.0	0.0	0.0
Phase 2- Trucks	0.4	14.4	0.2	0.1	0.2	0.2	0.0	0.1	0.1	9.4	0.1	0.1	0.2	0.1	0.0	0.1	0.1	9.4	0.1	0.1	0.2	0.1	0.0	0.1
Phase 1	0.2	8.8	0.1	0.1	0.2	0.1	0.0	0.1	0.1	8.6	0.1	0.1	0.2	0.1	0.0	0.1	0.1	8.9	0.1	0.1	0.2	0.1	0.0	0.1
Full Buildout	0.6	23.1	0.3	0.2	0.4	0.3	0.1	0.2	0.1	18.0	0.2	0.2	0.4	0.2	0.1	0.2	0.1	18.3	0.2	0.2	0.4	0.2	0.1	0.2

	2021				2030				2031			
	ROG	NOX	Total PM10	Total PM2.5	ROG	NOX	Total PM10	Total PM2.5	ROG	NOX	Total PM10	Total PM2.5
Source	Emissions (lb/day)				Emissions (lb/day)				Emissions (lb/day)			
Phase 1	0.2	8.8	0.4	0.2	0.1	8.6	0.4	0.2	0.1	8.9	0.4	0.2
Full Buildout	0.6	23.1	0.9	0.5	0.1	18.0	0.8	0.4	0.1	18.3	0.8	0.4

ANNUAL	2021								2030								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
Source	Emissions (lb/year)								Emissions (lb/year)								Emissions (lb/year)							
Costco	7.8	843.5	9.8	14.0	24.1	9.4	3.5	10.3	9.2	1086.1	11.2	13.9	23.8	10.7	3.5	10.2	9.2	1151.2	11.2	13.9	23.8	10.7	3.5	10.2
Gas Station	7.7	819.3	9.6	13.8	23.6	9.2	3.4	10.1	9.1	1057.0	11.0	13.6	23.4	10.5	3.4	10.0	9.0	1106.9	11.0	13.6	23.3	10.5	3.4	10.0
Phase 1 - Retail/Hotel	47.7	1536.7	21.3	12.4	21.3	20.4	3.1	9.1	8.0	1004.2	8.4	12.5	21.4	8.0	3.1	9.2	8.0	1000.8	8.3	12.5	21.4	8.0	3.1	9.2
Phase 2- Trucks	162.8	5246.6	72.7	42.5	72.9	69.6	10.6	31.2	27.5	3428.8	28.6	42.6	73.1	27.3	10.6	31.3	27.3	3417.1	28.4	42.6	73.1	27.2	10.7	31.3

	2021								2030								2031							
	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW	ROG	NOX	PM10 Exh	PM10 TW	PM10 BW	PM2.5 Exh	PM2.5 TW	PM2.5 BW
Source	Emissions (tons/year)								Emissions (tons/year)								Emissions (tons/year)							
Phase 1	0.0	1.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Full Buildout	0.1	4.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	3.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.1	0.0	0.0	0.0

	2021				2030				2031			
	ROG	NOX	Total PM10	Total PM2.5	ROG	NOX	Total PM10	Total PM2.5	ROG	NOX	Total PM10	Total PM2.5
Source	Emissions (tons/year)				Emissions (tons/year)				Emissions (tons/year)			
Phase 1	0.03	1.60	0.07	0.04	0.0	1.6	0.1	0.0	0.0	1.6	0.1	0.0
Full Buildout	0.1	4.2	0.2	0.1	0.0	3.3	0.1	0.1	0.0	3.3	0.1	0.1

Table 11: HHDT Idling Exhaust Emissions

Source	# of Trucks per Day	# of Trucks per Hour	Idling Minutes
Fedex	390	39	15
Costco	10	1	15
Gas Station	8	1	15
Phase 1 - Retail/Hotel	30	3	15
Phase 2- Trucks	102	10	15

Emissions Factors

	2021				2030				2031			
	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
	Emission Factor (g/min)				Emission Factor (g/min)				Emission Factor (g/min)			
Costco Trucks	3.95E-02	4.66E-01	1.68E-04	1.61E-04	3.95E-02	4.66E-01	1.68E-04	1.61E-04	3.95E-02	4.66E-01	1.68E-04	1.61E-04
All Other Trucks	3.98E-02	5.99E-01	5.51E-04	5.28E-04	3.92E-02	4.95E-01	2.35E-04	2.25E-04	3.93E-02	4.92E-01	2.25E-04	2.16E-04

	2021				2030				2031			
DAILY	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Source	Emissions (lb/day)				Emissions (lb/day)				Emissions (lb/day)			
Costco	0.01	0.15	0.00	0.00	0.01	0.15	0.00	0.00	0.01	0.15	0.00	0.00
Gas Station	0.01	0.12	0.00	0.00	0.01	0.12	0.00	0.00	0.01	0.12	0.00	0.00
Phase 1 - Retail/Hotel	0.04	0.59	0.00	0.00	0.04	0.49	0.00	0.00	0.04	0.49	0.00	0.00
Phase 2- Trucks	0.13	2.02	0.00	0.00	0.13	1.67	0.00	0.00	0.13	1.66	0.00	0.00
Phase 1	0.06	0.87	0.00	0.00	0.06	0.77	0.00	0.00	0.06	0.76	0.00	0.00
Full Buildout	0.20	2.89	0.00	0.00	0.19	2.44	0.00	0.00	0.19	2.43	0.00	0.00

ANNUAL	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Source	Exhaust Emissions (lb/year)				Exhaust Emissions (lb/year)				Exhaust Emissions (lb/year)			
Costco	4.76	56.29	0.02	0.02	4.76	56.29	0.02	0.02	4.76	56.29	0.02	0.02
Gas Station	3.81	45.03	0.02	0.02	3.81	45.03	0.02	0.02	3.81	45.03	0.02	0.02
Phase 1 - Retail/Hotel	14.36	215.96	0.20	0.19	14.15	178.55	0.08	0.08	14.15	177.56	0.08	0.08
Phase 2- Trucks	49.02	737.36	0.68	0.65	48.31	609.63	0.29	0.28	48.33	606.26	0.28	0.27

	2021				2030				2031			
	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5	ROG	NOX	PM10	PM2.5
Source	Exhaust Emissions (tons/year)				Exhaust Emissions (tons/year)				Exhaust Emissions (tons/year)			
Phase 1	0.01	0.16	0.00	0.00	0.01	0.14	0.00	0.00	0.01	0.14	0.00	0.00
Full Buildout	0.04	0.53	0.00	0.00	0.04	0.44	0.00	0.00	0.04	0.44	0.00	0.00

Gas Station Emissions

Table 8: Gas Station Evaporative TOG Emissions

Annual Gasoline Throughput (gal)[1]
24,000,000

Emission Factors for Enhance Vapor Recovery System [2]			
lb/kgal		Fueling	
0.06888	0.42	Non-ORVR Vehicles [3]	12%
	0.021	ORVR Vehicles [3]	88%
0.15		Bulk Transfer Losses	
0.024		Pressure Driven Losses	
0.24		Fueling - Spillage	
0.009		Gasoline Hose Losses	
0.49188		**Total**	

5.90 tons/year
32.34 lbs/day

1 Johnson Drive HRA Assumptions

2 Emission factors from CARB "Revised Emissions Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities". December 23, 2013 (CARB, 2013). Assumes use of enhanced vapor recovery systems

3 Based on CARB "Revised Emissions Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities". Attachment 1, Table 1-2 (CARB, 2014), by year 2021 , 87% vehicles served at gas stations will be ORVR vehicles. The emission factors for fueling is the composition emission factor based on the two types of vehicles.

Transportation Refrigeration Unit Emissions

TRU Operation

Table 5: TRU Operations Emissions

Source	Input	ROG	NOX	PM10 (DPM)	PM2.5	ROG	NOX	PM10 (DPM)	PM2.5
Costco									
Daily Trucks[1]	10								
Trucks per Hour	1								
Percent box trucks with TRUs[1]	75%								
TRU operation/trip (hrs)[1]	2	lbs/hr				lbs/year			
Annual hours of TRU operation	5,475	7.77E-03	1.15E-01	6.90E-04	6.90E-04	4.25E+01	6.28E+02	3.78E+00	3.78E+00
						Daily Average Emissions (lbs/day)			
						1.16E-01	1.72E+00	1.03E-02	1.03E-02
Phase 1 - Retail/Hotel									
Daily one-way trips	60								
Daily Trucks	30								
Trucks per Hour	3								
Percent semi trucks with TRUs[1]	25%								
TRU operation/trip (hrs)[1]	2	lbs/hr				lbs/year			
Annual hours of TRU operation	5,452	5.80E-03	8.56E-02	5.15E-04	5.15E-04	4.23E+01	6.25E+02	3.76E+00	3.76E+00
						Daily Average Emissions (lbs/day)			
						1.16E-01	1.71E+00	1.03E-02	1.03E-02
Phase 2 - Onsite Businesses									
Daily one-way trips	204								
Daily Trucks	102								
Trucks per Hour	10								
Percent semi trucks with TRUs[1]	25%								
TRU operation/trip (hrs)[1]	2	lbs/hr				lbs/year			
Annual hours of TRU operation	18,615	1.98E-02	2.92E-01	1.76E-03	1.76E-03	1.45E+02	2.13E+03	1.28E+01	1.28E+01
						Daily Average Emissions (lbs/day)			
						3.96E-01	5.85E+00	3.52E-02	3.52E-02

Parameters for TRU Trucks	
TRU horsepower[2]	34
TRU load factor	0.46
ROG[5,6,7,8]	0.23
NOX[5,6]	3.33
Ultra-Low Emission TRU emission factor (g/hp-hr)[3]	0.02
NMHC +NOx for Tier 4 Offroad Engines(g/hp-hr)	3.5
NMHC Fraction [5,6]	5%
NOx Fraction [5,6]	95%
NMHC/HC [7]	0.984
ROG/HC [8]	1.266

Phase	ROG	NOX	PM10/DPM	PM2.5
	Annual Emissions (tons/year)			
Phase 1	4.24E-02	6.26E-01	3.77E-03	3.77E-03
Full Buildout	1.15E-01	1.69E+00	1.02E-02	1.02E-02

Phase	ROG	NOX	PM10/DPM	PM2.5
	Daily Average Emissions (lbs/day)			
Phase 1	2.32E-01	3.43E+00	2.06E-02	2.06E-02
Full Buildout	6.29E-01	9.28E+00	5.58E-02	5.58E-02

Notes:

1 Johnson Drive HRA Assumptions
2 ARB 2011 Staff Report: Amendments for the ATCM for TRUs, table III-1: https://www.arb.ca.gov/regact/2011/tru2011/truisor.pdf
3 Required per ARB ATCM, section 2477.5 (b), table 6: https://www.arb.ca.gov/diesel/tru/documents/fro_10-16-12.pdf
4 Calculation takes variable emissions into account
5 Table 1, https://www.arb.ca.gov/msei/ordiesel/ordas_ef_fcf_2017.pdf
6 Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + Nox:
7 NMHC/HC based on EPA conversion factor. https://nepis.epa.gov/Exe/ZyPDF.cgi/P10081RP.PDF?Dockey=P10081RP.PDF
8 ROG/HC based on CARB recommended conversion factor. https://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmp_appd_4_28_11.pdf

Existing Operational Emissions

Existing General Light Industry (27,550SF) (2018)-CalEEMod Output

Existing Conditions-Light Industrial (Parcel 6B)

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	293.67	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor based on The Climate Registry's 2018 Emissions Factor Report

Land Use - Light Industrial land use (Parcel 6B) to remain throughout project

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblProjectCharacteristics	CO2IntensityFactor	641.35	293.67
tblVehicleTrips	DV_TP	5.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	SU_TR	0.68	1.32

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2018	0.2119	0.6756	0.4899	8.1000e-004	8.2900e-003	0.0413	0.0496	2.4100e-003	0.0382	0.0406	0.0000	73.7647	73.7647	0.0188	0.0000	74.2357
Maximum	**0.2119**	**0.6756**	**0.4899**	**8.1000e-004**	**8.2900e-003**	**0.0413**	**0.0496**	**2.4100e-003**	**0.0382**	**0.0406**	**0.0000**	**73.7647**	**73.7647**	**0.0188**	**0.0000**	**74.2357**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2018	0.2119	0.6756	0.4899	8.1000e-004	8.2900e-003	0.0413	0.0496	2.4100e-003	0.0382	0.0406	0.0000	73.7646	73.7646	0.0188	0.0000	74.2356
Maximum	**0.2119**	**0.6756**	**0.4899**	**8.1000e-004**	**8.2900e-003**	**0.0413**	**0.0496**	**2.4100e-003**	**0.0382**	**0.0406**	**0.0000**	**73.7646**	**73.7646**	**0.0188**	**0.0000**	**74.2356**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2018**	**3-31-2018**	0.4007	0.4007
2	**4-1-2018**	**6-30-2018**	0.4823	0.4823
		Highest	0.4823	0.4823

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	0.0958	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	69.0960	69.0960	3.7400e-003	1.3300e-003	69.5859
Mobile	0.0585	0.2883	0.7362	2.1700e-003	0.1720	2.9300e-003	0.1749	0.0462	2.7700e-003	0.0490	0.0000	198.9090	198.9090	8.1200e-003	0.0000	199.1120
Waste						0.0000	0.0000		0.0000	0.0000	6.9342	0.0000	6.9342	0.4098	0.0000	17.1791
Water						0.0000	0.0000		0.0000	0.0000	2.0212	4.5921	6.6133	0.2081	5.0000e-003	13.3032
Total	**0.1582**	**0.3240**	**0.7664**	**2.3800e-003**	**0.1720**	**5.6400e-003**	**0.1776**	**0.0462**	**5.4800e-003**	**0.0517**	**8.9554**	**272.5976**	**281.5529**	**0.6297**	**6.3300e-003**	**299.1807**

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	0.0958	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	69.0960	69.0960	3.7400e-003	1.3300e-003	69.5859
Mobile	0.0585	0.2883	0.7362	2.1700e-003	0.1720	2.9300e-003	0.1749	0.0462	2.7700e-003	0.0490	0.0000	198.9090	198.9090	8.1200e-003	0.0000	199.1120
Waste						0.0000	0.0000		0.0000	0.0000	6.9342	0.0000	6.9342	0.4098	0.0000	17.1791
Water						0.0000	0.0000		0.0000	0.0000	2.0212	4.5921	6.6133	0.2081	5.0000e-003	13.3032
Total	**0.1582**	**0.3240**	**0.7664**	**2.3800e-003**	**0.1720**	**5.6400e-003**	**0.1776**	**0.0462**	**5.4800e-003**	**0.0517**	**8.9554**	**272.5976**	**281.5529**	**0.6297**	**6.3300e-003**	**299.1807**

	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	N20	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	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/15/2018	5	1	
3	Grading	Grading	1/16/2018	1/17/2018	5	2	
4	Building Construction	Building Construction	1/18/2018	6/6/2018	5	100	
5	Paving	Paving	6/7/2018	6/13/2018	5	5	
6	Architectural Coating	Architectural Coating	6/14/2018	6/20/2018	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,325; Non-Residential Outdoor: 13,775; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

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					
Off-Road	5.3200e-003	0.0472	0.0389	6.0000e-005		3.1100e-003	3.1100e-003		2.9700e-003	2.9700e-003	0.0000	5.3041	5.3041	1.0200e-003	0.0000	5.3297
Total	**5.3200e-003**	**0.0472**	**0.0389**	**6.0000e-005**		**3.1100e-003**	**3.1100e-003**		**2.9700e-003**	**2.9700e-003**	**0.0000**	**5.3041**	**5.3041**	**1.0200e-003**	**0.0000**	**5.3297**

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	2.0000e-004	1.5000e-004	1.5400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3684	0.3684	1.0000e-005	0.0000	0.3687
Total	**2.0000e-004**	**1.5000e-004**	**1.5400e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3684**	**0.3684**	**1.0000e-005**	**0.0000**	**0.3687**

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					
Off-Road	5.3200e-003	0.0472	0.0389	6.0000e-005		3.1100e-003	3.1100e-003		2.9700e-003	2.9700e-003	0.0000	5.3041	5.3041	1.0200e-003	0.0000	5.3296
Total	**5.3200e-003**	**0.0472**	**0.0389**	**6.0000e-005**		**3.1100e-003**	**3.1100e-003**		**2.9700e-003**	**2.9700e-003**	**0.0000**	**5.3041**	**5.3041**	**1.0200e-003**	**0.0000**	**5.3296**

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	2.0000e-004	1.5000e-004	1.5400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3684	0.3684	1.0000e-005	0.0000	0.3687
Total	**2.0000e-004**	**1.5000e-004**	**1.5400e-003**	**0.0000**	**4.0000e-004**	**0.0000**	**4.0000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3684**	**0.3684**	**1.0000e-005**	**0.0000**	**0.3687**

3.3 Site Preparation - 2018

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	4.8800e-003	2.1300e-003	0.0000		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004	0.0000	0.4458	0.4458	1.4000e-004	0.0000	0.4492

Total	**3.9000e-004**	**4.8800e-003**	**2.1300e-003**	**0.0000**	**2.7000e-004**	**2.1000e-004**	**4.8000e-004**	**3.0000e-005**	**1.9000e-004**	**2.2000e-004**	**0.0000**	**0.4458**	**0.4458**	**1.4000e-004**	**0.0000**	**0.4492**

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	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0184	0.0184	0.0000	0.0000	0.0184
Total	**1.0000e-005**	**1.0000e-005**	**8.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0184**	**0.0184**	**0.0000**	**0.0000**	**0.0184**

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	4.8800e-003	2.1300e-003	0.0000		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004	0.0000	0.4458	0.4458	1.4000e-004	0.0000	0.4492
Total	**3.9000e-004**	**4.8800e-003**	**2.1300e-003**	**0.0000**	**2.7000e-004**	**2.1000e-004**	**4.8000e-004**	**3.0000e-005**	**1.9000e-004**	**2.2000e-004**	**0.0000**	**0.4458**	**0.4458**	**1.4000e-004**	**0.0000**	**0.4492**

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	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0184	0.0184	0.0000	0.0000	0.0184
Total	**1.0000e-005**	**1.0000e-005**	**8.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0184**	**0.0184**	**0.0000**	**0.0000**	**0.0184**

3.4 Grading - 2018

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	9.4300e-003	7.7800e-003	1.0000e-005		6.2000e-004	6.2000e-004		5.9000e-004	5.9000e-004	0.0000	1.0608	1.0608	2.0000e-004	0.0000	1.0659
Total	**1.0600e-003**	**9.4300e-003**	**7.7800e-003**	**1.0000e-005**	**7.5000e-004**	**6.2000e-004**	**1.3700e-003**	**4.1000e-004**	**5.9000e-004**	**1.0000e-003**	**0.0000**	**1.0608**	**1.0608**	**2.0000e-004**	**0.0000**	**1.0659**

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	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0737	0.0737	0.0000	0.0000	0.0737
Total	**4.0000e-005**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0737**	**0.0737**	**0.0000**	**0.0000**	**0.0737**

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	9.4300e-003	7.7800e-003	1.0000e-005		6.2000e-004	6.2000e-004		5.9000e-004	5.9000e-004	0.0000	1.0608	1.0608	2.0000e-004	0.0000	1.0659
Total	**1.0600e-003**	**9.4300e-003**	**7.7800e-003**	**1.0000e-005**	**7.5000e-004**	**6.2000e-004**	**1.3700e-003**	**4.1000e-004**	**5.9000e-004**	**1.0000e-003**	**0.0000**	**1.0608**	**1.0608**	**2.0000e-004**	**0.0000**	**1.0659**

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	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0737	0.0737	0.0000	0.0000	0.0737
Total	**4.0000e-005**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0737**	**0.0737**	**0.0000**	**0.0000**	**0.0737**

3.5 Building Construction - 2018

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					
Off-Road	0.0542	0.5516	0.3876	5.7000e-004		0.0354	0.0354		0.0326	0.0326	0.0000	52.0058	52.0058	0.0162	0.0000	52.4106
Total	**0.0542**	**0.5516**	**0.3876**	**5.7000e-004**		**0.0354**	**0.0354**		**0.0326**	**0.0326**	**0.0000**	**52.0058**	**52.0058**	**0.0162**	**0.0000**	**52.4106**

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	1.3100e-003	0.0335	8.8900e-003	7.0000e-005	1.6400e-003	2.6000e-004	1.9000e-003	4.7000e-004	2.5000e-004	7.2000e-004	0.0000	6.6326	6.6326	3.8000e-004	0.0000	6.6422
Worker	2.4100e-003	1.8400e-003	0.0185	5.0000e-005	4.7400e-003	3.0000e-005	4.7700e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	4.4213	4.4213	1.3000e-004	0.0000	4.4245
Total	**3.7200e-003**	**0.0353**	**0.0274**	**1.2000e-004**	**6.3800e-003**	**2.9000e-004**	**6.6700e-003**	**1.7300e-003**	**2.8000e-004**	**2.0100e-003**	**0.0000**	**11.0539**	**11.0539**	**5.1000e-004**	**0.0000**	**11.0667**

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					
Off-Road	0.0542	0.5516	0.3876	5.7000e-004		0.0354	0.0354		0.0326	0.0326	0.0000	52.0058	52.0058	0.0162	0.0000	52.4105
Total	**0.0542**	**0.5516**	**0.3876**	**5.7000e-004**		**0.0354**	**0.0354**		**0.0326**	**0.0326**	**0.0000**	**52.0058**	**52.0058**	**0.0162**	**0.0000**	**52.4105**

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	1.3100e-003	0.0335	8.8900e-003	7.0000e-005	1.6400e-003	2.6000e-004	1.9000e-003	4.7000e-004	2.5000e-004	7.2000e-004	0.0000	6.6326	6.6326	3.8000e-004	0.0000	6.6422
Worker	2.4100e-003	1.8400e-003	0.0185	5.0000e-005	4.7400e-003	3.0000e-005	4.7700e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	4.4213	4.4213	1.3000e-004	0.0000	4.4245
Total	**3.7200e-003**	**0.0353**	**0.0274**	**1.2000e-004**	**6.3800e-003**	**2.9000e-004**	**6.6700e-003**	**1.7300e-003**	**2.8000e-004**	**2.0100e-003**	**0.0000**	**11.0539**	**11.0539**	**5.1000e-004**	**0.0000**	**11.0667**

3.6 Paving - 2018

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					
Off-Road	2.3000e-003	0.0219	0.0181	3.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	2.4270	2.4270	6.8000e-004	0.0000	2.4441

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.3000e-003**	**0.0219**	**0.0181**	**3.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.1800e-003**	**1.1800e-003**	**0.0000**	**2.4270**	**2.4270**	**6.8000e-004**	**0.0000**	**2.4441**

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	1.8000e-004	1.4000e-004	1.3900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3316	0.3316	1.0000e-005	0.0000	0.3318
Total	**1.8000e-004**	**1.4000e-004**	**1.3900e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3316**	**0.3316**	**1.0000e-005**	**0.0000**	**0.3318**

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					
Off-Road	2.3000e-003	0.0219	0.0181	3.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	2.4270	2.4270	6.8000e-004	0.0000	2.4441
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.3000e-003**	**0.0219**	**0.0181**	**3.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.1800e-003**	**1.1800e-003**	**0.0000**	**2.4270**	**2.4270**	**6.8000e-004**	**0.0000**	**2.4441**

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	1.8000e-004	1.4000e-004	1.3900e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3316	0.3316	1.0000e-005	0.0000	0.3318
Total	**1.8000e-004**	**1.4000e-004**	**1.3900e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3316**	**0.3316**	**1.0000e-005**	**0.0000**	**0.3318**

3.7 Architectural Coating - 2018

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					
Archit. Coating	0.1437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-004	5.0100e-003	4.6400e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	0.6383	0.6383	6.0000e-005	0.0000	0.6398
Total	**0.1444**	**5.0100e-003**	**4.6400e-003**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**6.0000e-005**	**0.0000**	**0.6398**

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	2.0000e-005	2.0000e-005	1.5000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0368	0.0368	0.0000	0.0000	0.0369
Total	**2.0000e-005**	**2.0000e-005**	**1.5000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0368**	**0.0368**	**0.0000**	**0.0000**	**0.0369**

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					
Archit. Coating	0.1437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-004	5.0100e-003	4.6400e-003	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	0.6383	0.6383	6.0000e-005	0.0000	0.6398
Total	**0.1444**	**5.0100e-003**	**4.6400e-003**	**1.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**6.0000e-005**	**0.0000**	**0.6398**

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	2.0000e-005	2.0000e-005	1.5000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0368	0.0368	0.0000	0.0000	0.0369
Total	**2.0000e-005**	**2.0000e-005**	**1.5000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0368**	**0.0368**	**0.0000**	**0.0000**	**0.0369**

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	tons/yr										MT/yr					
Mitigated	0.0585	0.2883	0.7362	2.1700e-003	0.1720	2.9300e-003	0.1749	0.0462	2.7700e-003	0.0490	0.0000	198.9090	198.9090	8.1200e-003	0.0000	199.1120
Unmitigated	0.0585	0.2883	0.7362	2.1700e-003	0.1720	2.9300e-003	0.1749	0.0462	2.7700e-003	0.0490	0.0000	198.9090	198.9090	8.1200e-003	0.0000	199.1120

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	192.02	36.37	36.37	461,783	461,783
Total	192.02	36.37	36.37	461,783	461,783

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.3129	30.3129	2.9900e-003	6.2000e-004	30.5723
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.3129	30.3129	2.9900e-003	6.2000e-004	30.5723
NaturalGas Mitigated	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
NaturalGas Unmitigated	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136

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					
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Total		**3.9200e-003**	**0.0356**	**0.0299**	**2.1000e-004**		**2.7100e-003**	**2.7100e-003**		**2.7100e-003**	**2.7100e-003**	**0.0000**	**38.7832**	**38.7832**	**7.4000e-004**	**7.1000e-004**	**39.0136**

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	tons/yr										MT/yr					
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136

Total		**3.9200e-003**	**0.0356**	**0.0299**	**2.1000e-004**		**2.7100e-003**	**2.7100e-003**		**2.7100e-003**	**2.7100e-003**	**0.0000**	**38.7832**	**38.7832**	**7.4000e-004**	**7.1000e-004**	**39.0136**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	227563	30.3129	2.9900e-003	6.2000e-004	30.5723
Total		**30.3129**	**2.9900e-003**	**6.2000e-004**	**30.5723**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	227563	30.3129	2.9900e-003	6.2000e-004	30.5723
Total		**30.3129**	**2.9900e-003**	**6.2000e-004**	**30.5723**

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	0.0958	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0958	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

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	0.0144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Total	**0.0958**	**0.0000**	**2.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.0000**	**5.3000e-004**

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	0.0144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Total	**0.0958**	**0.0000**	**2.6000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.0000**	**5.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.6133	0.2081	5.0000e-003	13.3032
Unmitigated	6.6133	0.2081	5.0000e-003	13.3032

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

General Light Industry	6.37094 / 0	6.6133	0.2081	5.0000e-003	13.3032
Total		**6.6133**	**0.2081**	**5.0000e-003**	**13.3032**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	6.37094 / 0	6.6133	0.2081	5.0000e-003	13.3032
Total		**6.6133**	**0.2081**	**5.0000e-003**	**13.3032**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.9342	0.4098	0.0000	17.1791
Unmitigated	6.9342	0.4098	0.0000	17.1791

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Total		**6.9342**	**0.4098**	**0.0000**	**17.1791**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Total		**6.9342**	**0.4098**	**0.0000**	**17.1791**

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

Existing Conditions Modeling (2018)-CalEEMod Output

Johnson Drive Existing Conditions (2018)

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.07	1000sqft	0.35	15,070.00	0
Place of Worship	20.00	1000sqft	0.46	20,000.00	0
General Light Industry	136.22	1000sqft	3.13	136,225.00	0
Strip Mall	53.36	1000sqft	1.23	53,363.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	293.67	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor based on The Climate Registry's 2018 Emissions Factor Report

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05

tblLandUse	LandUseSquareFeet	136,220.00	136,225.00
tblLandUse	LandUseSquareFeet	53,360.00	53,363.00
tblLandUse	LotAcreage	1.22	1.23
tblProjectCharacteristics	CO2IntensityFactor	641.35	293.67
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	64.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	2.46	2.65
tblVehicleTrips	ST_TR	10.37	10.50
tblVehicleTrips	ST_TR	42.04	50.03
tblVehicleTrips	SU_TR	0.68	1.32
tblVehicleTrips	SU_TR	1.05	2.65
tblVehicleTrips	SU_TR	36.63	10.50
tblVehicleTrips	SU_TR	20.43	50.03
tblVehicleTrips	WD_TR	11.03	11.28
tblVehicleTrips	WD_TR	9.11	9.00
tblVehicleTrips	WD_TR	44.32	42.73

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2018	0.4298	3.9513	2.7937	5.5800e-003	0.2579	0.2106	0.4685	0.1111	0.1973	0.3083	0.0000	505.3027	505.3027	0.0931	0.0000	507.6290
2019	1.2170	0.4187	0.3715	7.0000e-004	0.0115	0.0222	0.0337	3.1200e-003	0.0208	0.0239	0.0000	62.9605	62.9605	0.0129	0.0000	63.2822
Maximum	**1.2170**	**3.9513**	**2.7937**	**5.5800e-003**	**0.2579**	**0.2106**	**0.4685**	**0.1111**	**0.1973**	**0.3083**	**0.0000**	**505.3027**	**505.3027**	**0.0931**	**0.0000**	**507.6290**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2018	0.4298	3.9513	2.7937	5.5800e-003	0.2579	0.2106	0.4685	0.1111	0.1973	0.3083	0.0000	505.3023	505.3023	0.0931	0.0000	507.6286
2019	1.2170	0.4187	0.3715	7.0000e-004	0.0115	0.0222	0.0337	3.1200e-003	0.0208	0.0239	0.0000	62.9604	62.9604	0.0129	0.0000	63.2822
Maximum	**1.2170**	**3.9513**	**2.7937**	**5.5800e-003**	**0.2579**	**0.2106**	**0.4685**	**0.1111**	**0.1973**	**0.3083**	**0.0000**	**505.3023**	**505.3023**	**0.0931**	**0.0000**	**507.6286**

	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**	**N20**	**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**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
1	**1-1-2018**	**3-31-2018**	1.2424	1.2424
2	**4-1-2018**	**6-30-2018**	1.0321	1.0321
3	**7-1-2018**	**9-30-2018**	1.0434	1.0434
4	**10-1-2018**	**12-31-2018**	1.0487	1.0487

5	**1-1-2019**	**3-31-2019**	1.6199	1.6199
		Highest	1.6199	1.6199

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	0.7816	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003
Energy	0.0242	0.2203	0.1851	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	523.5094	523.5094	0.0326	0.0102	527.3621
Mobile	1.3129	6.3325	16.0351	0.0466	3.6664	0.0629	3.7292	0.9846	0.0594	1.0440	0.0000	4,260.5770	4,260.5770	0.1771	0.0000	4,265.0056
Waste						0.0000	0.0000		0.0000	0.0000	71.6477	0.0000	71.6477	4.2343	0.0000	177.5041
Water						0.0000	0.0000		0.0000	0.0000	12.2960	30.2868	42.5828	1.2659	0.0304	83.3014
Total	**2.1187**	**6.5528**	**16.2222**	**0.0479**	**3.6664**	**0.0796**	**3.7460**	**0.9846**	**0.0761**	**1.0607**	**83.9437**	**4,814.3773**	**4,898.3210**	**5.7099**	**0.0406**	**5,053.1775**

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	0.7816	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003
Energy	0.0242	0.2203	0.1851	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	523.5094	523.5094	0.0326	0.0102	527.3621
Mobile	1.3129	6.3325	16.0351	0.0466	3.6664	0.0629	3.7292	0.9846	0.0594	1.0440	0.0000	4,260.5770	4,260.5770	0.1771	0.0000	4,265.0056

Waste						0.0000	0.0000		0.0000	0.0000	71.6477	0.0000	71.6477	4.2343	0.0000	177.5041
Water						0.0000	0.0000		0.0000	0.0000	12.2960	30.2868	42.5828	1.2659	0.0304	83.3014
Total	**2.1187**	**6.5528**	**16.2222**	**0.0479**	**3.6664**	**0.0796**	**3.7460**	**0.9846**	**0.0761**	**1.0607**	**83.9437**	**4,814.3773**	**4,898.3210**	**5.7099**	**0.0406**	**5,053.1775**

	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	N20	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	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
3	Grading	Grading	2/10/2018	3/9/2018	5	20	
4	Building Construction	Building Construction	3/10/2018	1/25/2019	5	230	
5	Paving	Paving	1/26/2019	2/22/2019	5	20	
6	Architectural Coating	Architectural Coating	2/23/2019	3/22/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 336,987; Non-Residential Outdoor: 112,329; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	88.00	37.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

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					
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1241	35.1241	9.6800e-003	0.0000	35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**		**0.0194**	**0.0194**		**0.0181**	**0.0181**	**0.0000**	**35.1241**	**35.1241**	**9.6800e-003**	**0.0000**	**35.3660**

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	6.0000e-004	4.6000e-004	4.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.1053	1.1053	3.0000e-005	0.0000	1.1061
Total	**6.0000e-004**	**4.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1053**	**1.1053**	**3.0000e-005**	**0.0000**	**1.1061**

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					

Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1240	35.1240	9.6800e-003	0.0000	35.3660
Total	**0.0372**	**0.3832**	**0.2230**	**3.9000e-004**		**0.0194**	**0.0194**		**0.0181**	**0.0181**	**0.0000**	**35.1240**	**35.1240**	**9.6800e-003**	**0.0000**	**35.3660**

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	6.0000e-004	4.6000e-004	4.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.1053	1.1053	3.0000e-005	0.0000	1.1061
Total	**6.0000e-004**	**4.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1053**	**1.1053**	**3.0000e-005**	**0.0000**	**1.1061**

3.3 Site Preparation - 2018

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
Total	**0.0228**	**0.2410**	**0.1124**	**1.9000e-004**	**0.0903**	**0.0129**	**0.1032**	**0.0497**	**0.0119**	**0.0615**	**0.0000**	**17.3800**	**17.3800**	**5.4100e-003**	**0.0000**	**17.5152**

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	3.6000e-004	2.8000e-004	2.7800e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6632	0.6632	2.0000e-005	0.0000	0.6637
Total	**3.6000e-004**	**2.8000e-004**	**2.7800e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6632**	**0.6632**	**2.0000e-005**	**0.0000**	**0.6637**

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
Total	**0.0228**	**0.2410**	**0.1124**	**1.9000e-004**	**0.0903**	**0.0129**	**0.1032**	**0.0497**	**0.0119**	**0.0615**	**0.0000**	**17.3799**	**17.3799**	**5.4100e-003**	**0.0000**	**17.5152**

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	3.6000e-004	2.8000e-004	2.7800e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6632	0.6632	2.0000e-005	0.0000	0.6637
Total	**3.6000e-004**	**2.8000e-004**	**2.7800e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6632**	**0.6632**	**2.0000e-005**	**0.0000**	**0.6637**

3.4 Grading - 2018

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1069	27.1069	8.4400e-003	0.0000	27.3178
Total	**0.0277**	**0.3067**	**0.1658**	**3.0000e-004**	**0.0655**	**0.0155**	**0.0810**	**0.0337**	**0.0143**	**0.0479**	**0.0000**	**27.1069**	**27.1069**	**8.4400e-003**	**0.0000**	**27.3178**

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	6.0000e-004	4.6000e-004	4.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.1053	1.1053	3.0000e-005	0.0000	1.1061

Total	**6.0000e-004**	**4.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1053**	**1.1053**	**3.0000e-005**	**0.0000**	**1.1061**

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1068	27.1068	8.4400e-003	0.0000	27.3178
Total	**0.0277**	**0.3067**	**0.1658**	**3.0000e-004**	**0.0655**	**0.0155**	**0.0810**	**0.0337**	**0.0143**	**0.0479**	**0.0000**	**27.1068**	**27.1068**	**8.4400e-003**	**0.0000**	**27.3178**

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	6.0000e-004	4.6000e-004	4.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.1053	1.1053	3.0000e-005	0.0000	1.1061
Total	**6.0000e-004**	**4.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1053**	**1.1053**	**3.0000e-005**	**0.0000**	**1.1061**

3.5 Building Construction - 2018

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					
Off-Road	0.2827	2.4677	1.8547	2.8400e-003		0.1582	0.1582		0.1488	0.1488	0.0000	250.8444	250.8444	0.0615	0.0000	252.3809
Total	**0.2827**	**2.4677**	**1.8547**	**2.8400e-003**		**0.1582**	**0.1582**		**0.1488**	**0.1488**	**0.0000**	**250.8444**	**250.8444**	**0.0615**	**0.0000**	**252.3809**

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	0.0205	0.5231	0.1389	1.0800e-003	0.0256	4.0100e-003	0.0296	7.4000e-003	3.8400e-003	0.0112	0.0000	103.5618	103.5618	5.9600e-003	0.0000	103.7109
Worker	0.0373	0.0285	0.2868	7.6000e-004	0.0734	5.1000e-004	0.0739	0.0195	4.7000e-004	0.0200	0.0000	68.4118	68.4118	2.0200e-003	0.0000	68.4623
Total	**0.0578**	**0.5515**	**0.4257**	**1.8400e-003**	**0.0990**	**4.5200e-003**	**0.1035**	**0.0269**	**4.3100e-003**	**0.0312**	**0.0000**	**171.9736**	**171.9736**	**7.9800e-003**	**0.0000**	**172.1732**

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					

Off-Road	0.2827	2.4676	1.8547	2.8400e-003		0.1582	0.1582		0.1488	0.1488	0.0000	250.8441	250.8441	0.0615	0.0000	252.3806
Total	**0.2827**	**2.4676**	**1.8547**	**2.8400e-003**		**0.1582**	**0.1582**		**0.1488**	**0.1488**	**0.0000**	**250.8441**	**250.8441**	**0.0615**	**0.0000**	**252.3806**

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	0.0205	0.5231	0.1389	1.0800e-003	0.0256	4.0100e-003	0.0296	7.4000e-003	3.8400e-003	0.0112	0.0000	103.5618	103.5618	5.9600e-003	0.0000	103.7109
Worker	0.0373	0.0285	0.2868	7.6000e-004	0.0734	5.1000e-004	0.0739	0.0195	4.7000e-004	0.0200	0.0000	68.4118	68.4118	2.0200e-003	0.0000	68.4623
Total	**0.0578**	**0.5515**	**0.4257**	**1.8400e-003**	**0.0990**	**4.5200e-003**	**0.1035**	**0.0269**	**4.3100e-003**	**0.0312**	**0.0000**	**171.9736**	**171.9736**	**7.9800e-003**	**0.0000**	**172.1732**

3.5 Building Construction - 2019

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					
Off-Road	0.0224	0.2003	0.1631	2.6000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	22.3349	22.3349	5.4400e-003	0.0000	22.4709
Total	**0.0224**	**0.2003**	**0.1631**	**2.6000e-004**		**0.0123**	**0.0123**		**0.0115**	**0.0115**	**0.0000**	**22.3349**	**22.3349**	**5.4400e-003**	**0.0000**	**22.4709**

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	1.6600e-003	0.0445	0.0114	1.0000e-004	2.3000e-003	3.1000e-004	2.6100e-003	6.7000e-004	2.9000e-004	9.6000e-004	0.0000	9.2629	9.2629	5.1000e-004	0.0000	9.2757
Worker	3.0300e-003	2.2500e-003	0.0229	7.0000e-005	6.6100e-003	5.0000e-005	6.6500e-003	1.7600e-003	4.0000e-005	1.8000e-003	0.0000	5.9755	5.9755	1.6000e-004	0.0000	5.9795
Total	**4.6900e-003**	**0.0468**	**0.0343**	**1.7000e-004**	**8.9100e-003**	**3.6000e-004**	**9.2600e-003**	**2.4300e-003**	**3.3000e-004**	**2.7600e-003**	**0.0000**	**15.2384**	**15.2384**	**6.7000e-004**	**0.0000**	**15.2552**

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					
Off-Road	0.0224	0.2003	0.1631	2.6000e-004		0.0123	0.0123		0.0115	0.0115	0.0000	22.3349	22.3349	5.4400e-003	0.0000	22.4709
Total	**0.0224**	**0.2003**	**0.1631**	**2.6000e-004**		**0.0123**	**0.0123**		**0.0115**	**0.0115**	**0.0000**	**22.3349**	**22.3349**	**5.4400e-003**	**0.0000**	**22.4709**

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	1.6600e-003	0.0445	0.0114	1.0000e-004	2.3000e-003	3.1000e-004	2.6100e-003	6.7000e-004	2.9000e-004	9.6000e-004	0.0000	9.2629	9.2629	5.1000e-004	0.0000	9.2757
Worker	3.0300e-003	2.2500e-003	0.0229	7.0000e-005	6.6100e-003	5.0000e-005	6.6500e-003	1.7600e-003	4.0000e-005	1.8000e-003	0.0000	5.9755	5.9755	1.6000e-004	0.0000	5.9795
Total	**4.6900e-003**	**0.0468**	**0.0343**	**1.7000e-004**	**8.9100e-003**	**3.6000e-004**	**9.2600e-003**	**2.4300e-003**	**3.3000e-004**	**2.7600e-003**	**0.0000**	**15.2384**	**15.2384**	**6.7000e-004**	**0.0000**	**15.2552**

3.6 Paving - 2019

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					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0145**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

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	4.0000e-004	4.1100e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0722	1.0722	3.0000e-005	0.0000	1.0729

Total	**5.4000e-004**	**4.0000e-004**	**4.1100e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0722**	**1.0722**	**3.0000e-005**	**0.0000**	**1.0729**

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					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0145**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

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	4.0000e-004	4.1100e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0722	1.0722	3.0000e-005	0.0000	1.0729
Total	**5.4000e-004**	**4.0000e-004**	**4.1100e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0722**	**1.0722**	**3.0000e-005**	**0.0000**	**1.0729**

3.7 Architectural Coating - 2019

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					
Archit. Coating	1.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587
Total	**1.1741**	**0.0184**	**0.0184**	**3.0000e-005**		**1.2900e-003**	**1.2900e-003**		**1.2900e-003**	**1.2900e-003**	**0.0000**	**2.5533**	**2.5533**	**2.2000e-004**	**0.0000**	**2.5587**

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	6.5000e-004	4.8000e-004	4.9300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2866	1.2866	3.0000e-005	0.0000	1.2875
Total	**6.5000e-004**	**4.8000e-004**	**4.9300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2866**	**1.2866**	**3.0000e-005**	**0.0000**	**1.2875**

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					

Archit. Coating	1.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586
Total	**1.1741**	**0.0184**	**0.0184**	**3.0000e-005**		**1.2900e-003**	**1.2900e-003**		**1.2900e-003**	**1.2900e-003**	**0.0000**	**2.5533**	**2.5533**	**2.2000e-004**	**0.0000**	**2.5586**

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	6.5000e-004	4.8000e-004	4.9300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2866	1.2866	3.0000e-005	0.0000	1.2875
Total	**6.5000e-004**	**4.8000e-004**	**4.9300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2866**	**1.2866**	**3.0000e-005**	**0.0000**	**1.2875**

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	tons/yr										MT/yr					
Mitigated	1.3129	6.3325	16.0351	0.0466	3.6664	0.0629	3.7292	0.9846	0.0594	1.0440	0.0000	4,260.5770	4,260.5770	0.1771	0.0000	4,265.0056
Unmitigated	1.3129	6.3325	16.0351	0.0466	3.6664	0.0629	3.7292	0.9846	0.0594	1.0440	0.0000	4,260.5770	4,260.5770	0.1771	0.0000	4,265.0056

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	949.45	179.81	179.81	2,283,269	2,283,269
General Office Building	169.99	39.94	39.94	388,062	388,062
Place of Worship	180.00	210.00	210.00	501,072	501,072
Strip Mall	2,280.07	2,669.60	2669.60	6,672,230	6,672,230
Total	3,579.52	3,099.35	3,099.35	9,844,633	9,844,633

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	100	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	100	0	0
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
General Office Building	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
Place of Worship	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864
Strip Mall	0.567674	0.042970	0.194260	0.117237	0.019396	0.005375	0.016640	0.023570	0.002459	0.002683	0.006005	0.000868	0.000864

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	283.6721	283.6721	0.0280	5.8000e-003	286.0996
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	283.6721	283.6721	0.0280	5.8000e-003	286.0996

NaturalGas Mitigated	0.0242	0.2203	0.1851	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.8373	239.8373	4.6000e-003	4.4000e-003	241.2626
NaturalGas Unmitigated	0.0242	0.2203	0.1851	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.8373	239.8373	4.6000e-003	4.4000e-003	241.2626

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					
General Light Industry	3.59362e+006	0.0194	0.1762	0.1480	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.7690	191.7690	3.6800e-003	3.5200e-003	192.9086
General Office Building	246696	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1646	13.1646	2.5000e-004	2.4000e-004	13.2429
Place of Worship	527600	2.8400e-003	0.0259	0.0217	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1548	28.1548	5.4000e-004	5.2000e-004	28.3221
Strip Mall	126470	6.8000e-004	6.2000e-003	5.2100e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7489	6.7489	1.3000e-004	1.2000e-004	6.7890
Total		**0.0242**	**0.2203**	**0.1851**	**1.3300e-003**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**239.8373**	**239.8373**	**4.6000e-003**	**4.4000e-003**	**241.2626**

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	tons/yr										MT/yr					
General Light Industry	3.59362e+006	0.0194	0.1762	0.1480	1.0600e-003		0.0134	0.0134		0.0134	0.0134	0.0000	191.7690	191.7690	3.6800e-003	3.5200e-003	192.9086
General Office Building	246696	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1646	13.1646	2.5000e-004	2.4000e-004	13.2429
Place of Worship	527600	2.8400e-003	0.0259	0.0217	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1548	28.1548	5.4000e-004	5.2000e-004	28.3221
Strip Mall	126470	6.8000e-004	6.2000e-003	5.2100e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7489	6.7489	1.3000e-004	1.2000e-004	6.7890

Total		**0.0242**	**0.2203**	**0.1851**	**1.3300e-003**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**239.8373**	**239.8373**	**4.6000e-003**	**4.4000e-003**	**241.2626**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.12522e+006	149.8864	0.0148	3.0600e-003	151.1690
General Office Building	268698	35.7923	3.5300e-003	7.3000e-004	36.0986
Place of Worship	165200	22.0057	2.1700e-003	4.5000e-004	22.1940
Strip Mall	570450	75.9877	7.5000e-003	1.5500e-003	76.6379
Total		**283.6721**	**0.0280**	**5.7900e-003**	**286.0996**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.12522e+006	149.8864	0.0148	3.0600e-003	151.1690
General Office Building	268698	35.7923	3.5300e-003	7.3000e-004	36.0986
Place of Worship	165200	22.0057	2.1700e-003	4.5000e-004	22.1940
Strip Mall	570450	75.9877	7.5000e-003	1.5500e-003	76.6379
Total		**283.6721**	**0.0280**	**5.7900e-003**	**286.0996**

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	0.7816	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003
Unmitigated	0.7816	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003

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	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003
Total	**0.7816**	**2.0000e-005**	**2.0900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0100e-003**	**4.0100e-003**	**1.0000e-005**	**0.0000**	**4.2900e-003**

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	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.0900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0100e-003	4.0100e-003	1.0000e-005	0.0000	4.2900e-003
Total	**0.7816**	**2.0000e-005**	**2.0900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0100e-003**	**4.0100e-003**	**1.0000e-005**	**0.0000**	**4.2900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	42.5828	1.2659	0.0304	83.3014
Unmitigated	42.5828	1.2659	0.0304	83.3014

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	31.5009 / 0	32.6990	1.0287	0.0247	65.7773

General Office Building	2.67845 / 1.64163	3.5457	0.0875	2.1200e-003	6.3648
Place of Worship	0.625778 / 0.978781	1.1059	0.0205	5.0000e-004	1.7669
Strip Mall	3.95251 / 2.42251	5.2323	0.1292	3.1200e-003	9.3924
Total		**42.5828**	**1.2659**	**0.0304**	**83.3014**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	31.5009 / 0	32.6990	1.0287	0.0247	65.7773
General Office Building	2.67845 / 1.64163	3.5457	0.0875	2.1200e-003	6.3648
Place of Worship	0.625778 / 0.978781	1.1059	0.0205	5.0000e-004	1.7669
Strip Mall	3.95251 / 2.42251	5.2323	0.1292	3.1200e-003	9.3924
Total		**42.5828**	**1.2659**	**0.0304**	**83.3014**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

	MT/yr			
Mitigated	71.6477	4.2343	0.0000	177.5041
Unmitigated	71.6477	4.2343	0.0000	177.5041

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	168.91	34.2872	2.0263	0.0000	84.9451
General Office Building	14.02	2.8459	0.1682	0.0000	7.0507
Place of Worship	114	23.1410	1.3676	0.0000	57.3308
Strip Mall	56.03	11.3736	0.6722	0.0000	28.1776
Total		**71.6477**	**4.2343**	**0.0000**	**177.5041**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	168.91	34.2872	2.0263	0.0000	84.9451
General Office Building	14.02	2.8459	0.1682	0.0000	7.0507

Place of Worship	114	23.1410	1.3676	0.0000	57.3308
Strip Mall	56.03	11.3736	0.6722	0.0000	28.1776
Total		**71.6477**	**4.2343**	**0.0000**	**177.5041**

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

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APPENDIX C.3: GREENHOUSE GAS ANALYSIS

Construction Emissions

- CalEEMod Output – Construction
- Construction Haul Truck Idling Emissions
- Construction Emissions Summary

Operational Emissions

- CalEEMod Output – Phase 1 (2021)
- CalEEMod Output – Full-Buildout (2031)
- Generator Emissions
- Vehicle Emissions
- Transportation Refrigeration Unit Emissions
- Operations Emissions Summary

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Construction Emissions

CalEEMod Output – Construction

Johnson Drive EDZ Construction

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	222.94	1000sqft	5.12	222,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Specific Information

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	68,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	75,411.75
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	255,382.00	111,470.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	205,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	226,235.25
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	766,145.00	334,410.00
tblArchitecturalCoating	ConstArea_Parking	82,015.00	11,447.57
tblArchitecturalCoating	ConstArea_Parking	82,015.00	35,806.32
tblArchitecturalCoating	ConstArea_Parking	82,015.00	34,758.51
tblConstructionPhase	NumDays	55.00	18.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	740.00	148.00
tblConstructionPhase	NumDays	740.00	140.00
tblConstructionPhase	NumDays	740.00	60.00
tblConstructionPhase	NumDays	50.00	20.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	75.00	51.00
tblConstructionPhase	NumDays	55.00	11.00
tblConstructionPhase	NumDays	55.00	21.00
tblConstructionPhase	NumDays	55.00	7.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	30.00	7.00
tblConstructionPhase	NumDays	30.00	15.00

tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	800.00

tblTripsAndVMT	HaulingTripNumber	0.00	1,944.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	764.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,036.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,652.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,164.00
tblTripsAndVMT	HaulingTripNumber	0.00	42.00
tblTripsAndVMT	HaulingTripNumber	0.00	680.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,100.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,020.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	VendorTripNumber	308.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	751.00	138.00
tblTripsAndVMT	WorkerTripNumber	150.00	28.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	38.00	36.00
tblTripsAndVMT	WorkerTripNumber	23.00	36.00
tblTripsAndVMT	WorkerTripNumber	751.00	316.00
tblTripsAndVMT	WorkerTripNumber	150.00	64.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	163.00	164.00
tblTripsAndVMT	WorkerTripNumber	751.00	300.00
tblTripsAndVMT	WorkerTripNumber	150.00	60.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.6418	7.0783	5.2573	0.0128	0.6885	0.2907	0.9792	0.2625	0.2713	0.5338	0.0000	1,143.5509	1,143.5509	0.2216	0.0000	1,149.0905
2021	0.8529	0.5733	0.5744	1.2100e-003	0.0369	0.0277	0.0646	9.6800e-003	0.0261	0.0357	0.0000	106.8633	106.8633	0.0182	0.0000	107.3170
2030	1.7008	2.4071	4.0709	0.0114	0.6062	0.0503	0.6564	0.2312	0.0501	0.2813	0.0000	1,030.7203	1,030.7203	0.0395	0.0000	1,031.7081
2031	0.0110	0.0185	0.0403	8.0000e-005	6.0000e-004	8.3000e-004	1.4300e-003	1.6000e-004	8.3000e-004	9.9000e-004	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.7008**	**7.0783**	**5.2573**	**0.0128**	**0.6885**	**0.2907**	**0.9792**	**0.2625**	**0.2713**	**0.5338**	**0.0000**	**1,143.5509**	**1,143.5509**	**0.2216**	**0.0000**	**1,149.0905**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	1.6418	7.0783	5.2573	0.0128	0.6885	0.2907	0.9792	0.2625	0.2713	0.5338	0.0000	1,143.5500	1,143.5500	0.2216	0.0000	1,149.0896
2021	0.8529	0.5733	0.5744	1.2100e-003	0.0369	0.0277	0.0646	9.6800e-003	0.0261	0.0357	0.0000	106.8632	106.8632	0.0182	0.0000	107.3170
2030	1.7008	2.4071	4.0709	0.0114	0.6062	0.0503	0.6564	0.2312	0.0501	0.2813	0.0000	1,030.7195	1,030.7195	0.0395	0.0000	1,031.7073
2031	0.0110	0.0185	0.0403	8.0000e-005	6.0000e-004	8.3000e-004	1.4300e-003	1.6000e-004	8.3000e-004	9.9000e-004	0.0000	6.5575	6.5575	3.0000e-004	0.0000	6.5650
Maximum	**1.7008**	**7.0783**	**5.2573**	**0.0128**	**0.6885**	**0.2907**	**0.9792**	**0.2625**	**0.2713**	**0.5338**	**0.0000**	**1,143.5500**	**1,143.5500**	**0.2216**	**0.0000**	**1,149.0896**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	5.5985	5.5985
2	**7-6-2020**	**10-5-2020**	2.0893	2.0893
3	**10-6-2020**	**1-5-2021**	1.0167	1.0167
4	**1-6-2021**	**4-5-2021**	1.3837	1.3837
40	**1-6-2030**	**4-5-2030**	0.9036	0.9036
41	**4-6-2030**	**7-5-2030**	0.7666	0.7666
42	**7-6-2030**	**10-5-2030**	0.7434	0.7434
43	**10-6-2030**	**1-5-2031**	1.7136	1.7136
44	**1-6-2031**	**4-5-2031**	0.0085	0.0085
		Highest	5.5985	5.5985

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507
Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Energy	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	1,938.4193	1,938.4193	0.0782	0.0214	1,946.7507
Mobile	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Waste						0.0000	0.0000		0.0000	0.0000	205.6481	0.0000	205.6481	12.1535	0.0000	509.4845
Water						0.0000	0.0000		0.0000	0.0000	10.7778	71.6829	82.4607	1.1102	0.0268	118.2054
Total	**7.1865**	**21.3958**	**45.2060**	**0.1377**	**10.9016**	**0.1555**	**11.0571**	**2.9263**	**0.1472**	**3.0735**	**216.4259**	**14,459.7901**	**14,676.2160**	**13.8820**	**0.0482**	**15,037.6320**

	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	N20	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	Phase 1A-Grading/Excavation	Grading	4/6/2020	5/10/2020	6	30	
2	Phase 1B-Grading/Excavation	Grading	4/6/2020	6/15/2020	5	51	
3	Phase 1A-Drainage/Utilities/Sub-Grade	Site Preparation	4/22/2020	4/29/2020	6	7	
4	Phase 1A-Foundations/Concrete Pour	Site Preparation	4/29/2020	5/15/2020	6	15	
5	Phase 1A-Building Construction	Building Construction	5/16/2020	7/24/2020	6	60	
6	Phase 1A-Architectural Coatings	Architectural Coating	5/28/2020	7/24/2020	6	50	
7	Phase 1B-Drainage/Utilities/Sub-Grade	Site Preparation	6/16/2020	6/30/2020	5	11	

8	Phase 1B-Foundations/Concrete Pour	Site Preparation	7/1/2020	7/30/2020	5	22	
9	Phase 1A-Paving	Paving	7/17/2020	7/24/2020	6	7	
10	Phase 1B-Building Construction	Building Construction	7/31/2020	2/23/2021	5	148	
11	Phase 1B-Architectural Coatings	Architectural Coating	2/24/2021	3/20/2021	5	18	
12	Phase 1B-Paving	Paving	3/21/2021	4/5/2021	5	11	
13	Phase 2-Demolition	Demolition	1/7/2030	2/3/2030	5	20	
14	Phase 2-Grading/Excavation	Grading	2/4/2030	3/2/2030	5	20	
15	Phase 2-Drainage/Utilities/Sub-Grade	Site Preparation	3/3/2030	4/6/2030	5	25	
16	Phase 2-Foundations/Concrete Pour	Site Preparation	4/6/2030	4/28/2030	5	15	
17	Phase 2-Building Construction	Building Construction	4/30/2030	11/11/2030	5	140	
18	Phase 2-Architectural Coatings	Architectural Coating	11/12/2030	12/9/2030	5	20	
19	Phase 2-Paving	Paving	12/10/2030	1/7/2031	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 226,235; Non-Residential Outdoor: 75,412; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1A-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1A-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8.00	16	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8.00	402	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8.00	80	0.38
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8.00	65	0.37

Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8.00	9	0.56
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1A-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1A-Building Construction	Graders	2	8.00	187	0.41
Phase 1A-Building Construction	Off-Highway Tractors	10	8.00	124	0.44
Phase 1A-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1A-Building Construction	Welders	1	8.00	46	0.45
Phase 1A-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1A-Paving	Off-Highway Tractors	3	8.00	124	0.44
Phase 1A-Paving	Off-Highway Trucks	3	8.00	402	0.38
Phase 1A-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1A-Paving	Rollers	3	8.00	80	0.38
Phase 1A-Paving	Skid Steer Loaders	1	8.00	65	0.37
Phase 1B-Grading/Excavation	Excavators	1	8.00	158	0.38
Phase 1B-Grading/Excavation	Graders	1	8.00	187	0.41
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8.00	402	0.38
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 1B-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 1B-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 1B-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1B-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 1B-Building Construction	Cranes	1	8.00	231	0.29
Phase 1B-Building Construction	Forklifts	4	8.00	89	0.20
Phase 1B-Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Phase 1B-Building Construction	Welders	2	8.00	46	0.45
Phase 1B-Architectural Coatings	Air Compressors	1	8.00	78	0.48
Phase 1B-Paving	Pavers	2	8.00	130	0.42
Phase 1B-Paving	Paving Equipment	2	8.00	132	0.36
Phase 1B-Paving	Rollers	2	8.00	80	0.38
Phase 2-Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 2-Demolition	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Demolition	Excavators	3	8.00	158	0.38
Phase 2-Demolition	Generator Sets	2	8.00	84	0.74
Phase 2-Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Phase 2-Grading/Excavation	Excavators	2	8.00	158	0.38
Phase 2-Grading/Excavation	Graders	2	8.00	187	0.41
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2-Grading/Excavation	Scrapers	6	8.00	367	0.48
Phase 2-Grading/Excavation	Off-Highway Trucks	2	8.00	402	0.38
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8.00	247	0.40
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Cranes	1	8.00	231	0.29
Phase 2-Foundations/Concrete Pour	Forklifts	3	8.00	89	0.20
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8.00	84	0.74
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Phase 2-Building Construction	Cranes	1	8.00	231	0.29
Phase 2-Building Construction	Crushing/Proc. Equipment	2	8.00	85	0.78
Phase 2-Building Construction	Forklifts	3	8.00	89	0.20
Phase 2-Building Construction	Generator Sets	3	8.00	84	0.74
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2-Building Construction	Welders	1	8.00	46	0.45
Phase 2-Architectural Coatings	Air Compressors	1	8.00	78	0.48

Phase 2-Paving	Pavers	2	8.00	130	0.42
Phase 2-Paving	Paving Equipment	2	8.00	132	0.36
Phase 2-Paving	Rollers	2	8.00	80	0.38

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
Phase 1A-Grading/Excavation	10	26.00	0.00	800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Drainage/Utilities/Sub-	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Foundations/Concrete	65	164.00	0.00	1,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Building Construction	14	300.00	0.00	2,100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Architectural Coatings	1	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1A-Paving	12	30.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Grading/Excavation	7	18.00	0.00	680.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Foundations/Concrete	9	24.00	0.00	1,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Building Construction	11	138.00	0.00	1,944.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Architectural Coatings	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1B-Paving	6	16.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Demolition	10	26.00	0.00	764.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Grading/Excavation	15	36.00	0.00	1,036.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Drainage/Utilities/Sub-	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Foundations/Concrete	9	36.00	0.00	1,652.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Building Construction	13	316.00	0.00	3,164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Architectural Coatings	1	64.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2-Paving	6	16.00	0.00	42.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1A-Grading/Excavation - 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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2731	161.2731	0.0522	0.0000	162.5771
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.1937**	**0.0581**	**0.2518**	**0.0608**	**0.0534**	**0.1142**	**0.0000**	**161.2731**	**161.2731**	**0.0522**	**0.0000**	**162.5771**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

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					0.1937	0.0000	0.1937	0.0608	0.0000	0.0608	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	1.4490	0.8518	1.8400e-003		0.0581	0.0581		0.0534	0.0534	0.0000	161.2729	161.2729	0.0522	0.0000	162.5769
Total	**0.1258**	**1.4490**	**0.8518**	**1.8400e-003**	**0.1937**	**0.0581**	**0.2518**	**0.0608**	**0.0534**	**0.1142**	**0.0000**	**161.2729**	**161.2729**	**0.0522**	**0.0000**	**162.5769**

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	3.3400e-003	0.1170	0.0235	3.2000e-004	6.7600e-003	3.8000e-004	7.1300e-003	1.8600e-003	3.6000e-004	2.2200e-003	0.0000	30.6549	30.6549	1.5800e-003	0.0000	30.6944
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	1.2900e-003	9.2000e-004	9.5800e-003	3.0000e-005	3.0800e-003	2.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.6999	2.6999	7.0000e-005	0.0000	2.7015
Total	**4.6300e-003**	**0.1179**	**0.0331**	**3.5000e-004**	**9.8400e-003**	**4.0000e-004**	**0.0102**	**2.6800e-003**	**3.8000e-004**	**3.0600e-003**	**0.0000**	**33.3548**	**33.3548**	**1.6500e-003**	**0.0000**	**33.3959**

3.3 Phase 1B-Grading/Excavation - 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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0284	96.0284	0.0311	0.0000	96.8049

Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1671**	**0.0384**	**0.2054**	**0.0859**	**0.0353**	**0.1212**	**0.0000**	**96.0284**	**96.0284**	**0.0311**	**0.0000**	**96.8049**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

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					0.1671	0.0000	0.1671	0.0859	0.0000	0.0859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0788	0.8341	0.5065	1.0900e-003		0.0384	0.0384		0.0353	0.0353	0.0000	96.0283	96.0283	0.0311	0.0000	96.8048
Total	**0.0788**	**0.8341**	**0.5065**	**1.0900e-003**	**0.1671**	**0.0384**	**0.2054**	**0.0859**	**0.0353**	**0.1212**	**0.0000**	**96.0283**	**96.0283**	**0.0311**	**0.0000**	**96.8048**

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	2.8400e-003	0.0994	0.0200	2.7000e-004	5.7400e-003	3.2000e-004	6.0600e-003	1.5800e-003	3.1000e-004	1.8900e-003	0.0000	26.0567	26.0567	1.3400e-003	0.0000	26.0902
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	1.5200e-003	1.0900e-003	0.0113	4.0000e-005	3.6300e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.9000e-004	0.0000	3.1776	3.1776	8.0000e-005	0.0000	3.1795
Total	**4.3600e-003**	**0.1005**	**0.0313**	**3.1000e-004**	**9.3700e-003**	**3.4000e-004**	**9.7100e-003**	**2.5400e-003**	**3.3000e-004**	**2.8800e-003**	**0.0000**	**29.2343**	**29.2343**	**1.4200e-003**	**0.0000**	**29.2697**

3.4 Phase 1A-Drainage/Utilities/Sub-Grade - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.1044	0.0896	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.3391	16.3391	5.2400e-003	0.0000	16.4702
Total	**0.0104**	**0.1044**	**0.0896**	**1.9000e-004**	**0.0000**	**4.8100e-003**	**4.8100e-003**	**0.0000**	**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.3391**	**16.3391**	**5.2400e-003**	**0.0000**	**16.4702**

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	2.3000e-004	2.4100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6784	0.6784	2.0000e-005	0.0000	0.6789
Total	**3.2000e-004**	**2.3000e-004**	**2.4100e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.8000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6784**	**0.6784**	**2.0000e-005**	**0.0000**	**0.6789**

3.5 Phase 1A-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2124
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2124**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0359	0.2474	0.2214	4.5000e-004		0.0116	0.0116		0.0115	0.0115	0.0000	32.1221	32.1221	3.6100e-003	0.0000	32.2123
Total	**0.0359**	**0.2474**	**0.2214**	**4.5000e-004**	**0.0000**	**0.0116**	**0.0116**	**0.0000**	**0.0115**	**0.0115**	**0.0000**	**32.1221**	**32.1221**	**3.6100e-003**	**0.0000**	**32.2123**

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	5.0100e-003	0.1754	0.0353	4.7000e-004	0.0101	5.7000e-004	0.0107	2.7900e-003	5.4000e-004	3.3300e-003	0.0000	45.9824	45.9824	2.3700e-003	0.0000	46.0416
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	4.0800e-003	2.9200e-003	0.0302	9.0000e-005	9.7200e-003	7.0000e-005	9.7800e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	8.5151	8.5151	2.1000e-004	0.0000	8.5202
Total	**9.0900e-003**	**0.1783**	**0.0655**	**5.6000e-004**	**0.0199**	**6.4000e-004**	**0.0205**	**5.3800e-003**	**6.0000e-004**	**5.9800e-003**	**0.0000**	**54.4974**	**54.4974**	**2.5800e-003**	**0.0000**	**54.5618**

3.6 Phase 1A-Building Construction - 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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4380	181.4380	0.0532	0.0000	182.7670

Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4380**	**181.4380**	**0.0532**	**0.0000**	**182.7670**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

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					
Off-Road	0.1290	1.3654	1.2012	2.0800e-003		0.0611	0.0611		0.0569	0.0569	0.0000	181.4378	181.4378	0.0532	0.0000	182.7668
Total	**0.1290**	**1.3654**	**1.2012**	**2.0800e-003**		**0.0611**	**0.0611**		**0.0569**	**0.0569**	**0.0000**	**181.4378**	**181.4378**	**0.0532**	**0.0000**	**182.7668**

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	8.7600e-003	0.3070	0.0617	8.3000e-004	0.0177	9.9000e-004	0.0187	4.8800e-003	9.5000e-004	5.8200e-003	0.0000	80.4692	80.4692	4.1400e-003	0.0000	80.5727
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	0.0298	0.0213	0.2211	6.9000e-004	0.0711	4.8000e-004	0.0716	0.0189	4.4000e-004	0.0194	0.0000	62.3053	62.3053	1.5100e-003	0.0000	62.3430
Total	**0.0386**	**0.3283**	**0.2827**	**1.5200e-003**	**0.0889**	**1.4700e-003**	**0.0903**	**0.0238**	**1.3900e-003**	**0.0252**	**0.0000**	**142.7744**	**142.7744**	**5.6500e-003**	**0.0000**	**142.9157**

3.7 Phase 1A-Architectural Coatings - 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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5109	8.5109	6.6000e-004	0.0000	8.5273
Total	**0.9190**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5109**	**8.5109**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

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					
Archit. Coating	0.9109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0700e-003	0.0561	0.0611	1.0000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	8.5108	8.5108	6.6000e-004	0.0000	8.5273
Total	**0.9190**	**0.0561**	**0.0611**	**1.0000e-004**		**3.7000e-003**	**3.7000e-003**		**3.7000e-003**	**3.7000e-003**	**0.0000**	**8.5108**	**8.5108**	**6.6000e-004**	**0.0000**	**8.5273**

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	4.9700e-003	3.5600e-003	0.0368	1.1000e-004	0.0119	8.0000e-005	0.0119	3.1500e-003	7.0000e-005	3.2300e-003	0.0000	10.3842	10.3842	2.5000e-004	0.0000	10.3905
Total	**4.9700e-003**	**3.5600e-003**	**0.0368**	**1.1000e-004**	**0.0119**	**8.0000e-005**	**0.0119**	**3.1500e-003**	**7.0000e-005**	**3.2300e-003**	**0.0000**	**10.3842**	**10.3842**	**2.5000e-004**	**0.0000**	**10.3905**

3.8 Phase 1B-Drainage/Utilities/Sub-Grade - 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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

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					0.0994	0.0000	0.0994	0.0546	0.0000	0.0546	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.2333	0.1183	2.1000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	18.3869	18.3869	5.9500e-003	0.0000	18.5355
Total	**0.0224**	**0.2333**	**0.1183**	**2.1000e-004**	**0.0994**	**0.0121**	**0.1115**	**0.0546**	**0.0111**	**0.0657**	**0.0000**	**18.3869**	**18.3869**	**5.9500e-003**	**0.0000**	**18.5355**

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	3.3000e-004	2.3000e-004	2.4300e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6854	0.6854	2.0000e-005	0.0000	0.6858
Total	**3.3000e-004**	**2.3000e-004**	**2.4300e-003**	**1.0000e-005**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.6854**	**0.6854**	**2.0000e-005**	**0.0000**	**0.6858**

3.9 Phase 1B-Foundations/Concrete Pour - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6183
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6183**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2487	0.2196	3.6000e-004		0.0145	0.0145		0.0137	0.0137	0.0000	31.4465	31.4465	6.8700e-003	0.0000	31.6182
Total	**0.0257**	**0.2487**	**0.2196**	**3.6000e-004**	**0.0000**	**0.0145**	**0.0145**	**0.0000**	**0.0137**	**0.0137**	**0.0000**	**31.4465**	**31.4465**	**6.8700e-003**	**0.0000**	**31.6182**

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	4.2600e-003	0.1491	0.0300	4.0000e-004	8.6100e-003	4.8000e-004	9.1000e-003	2.3700e-003	4.6000e-004	2.8300e-003	0.0000	39.0850	39.0850	2.0100e-003	0.0000	39.1353
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	8.7000e-004	6.3000e-004	6.4800e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.8276	1.8276	4.0000e-005	0.0000	1.8287
Total	**5.1300e-003**	**0.1497**	**0.0365**	**4.2000e-004**	**0.0107**	**4.9000e-004**	**0.0112**	**2.9200e-003**	**4.7000e-004**	**3.4000e-003**	**0.0000**	**40.9127**	**40.9127**	**2.0500e-003**	**0.0000**	**40.9641**

3.10 Phase 1A-Paving - 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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0753	22.0753	7.1400e-003	0.0000	22.2538
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0753**	**22.0753**	**7.1400e-003**	**0.0000**	**22.2538**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

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					
Off-Road	0.0136	0.1362	0.1150	2.5000e-004		6.1400e-003	6.1400e-003		5.6500e-003	5.6500e-003	0.0000	22.0752	22.0752	7.1400e-003	0.0000	22.2537
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0450**	**0.1362**	**0.1150**	**2.5000e-004**		**6.1400e-003**	**6.1400e-003**		**5.6500e-003**	**5.6500e-003**	**0.0000**	**22.0752**	**22.0752**	**7.1400e-003**	**0.0000**	**22.2537**

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	6.0000e-005	2.0500e-003	4.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5365	0.5365	3.0000e-005	0.0000	0.5372
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	3.5000e-004	2.5000e-004	2.5800e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7269	0.7269	2.0000e-005	0.0000	0.7273
Total	**4.1000e-004**	**2.3000e-003**	**2.9900e-003**	**2.0000e-005**	**9.5000e-004**	**2.0000e-005**	**9.6000e-004**	**2.5000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.2634**	**1.2634**	**5.0000e-005**	**0.0000**	**1.2645**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2363	154.2363	0.0379	0.0000	155.1849
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2363**	**154.2363**	**0.0379**	**0.0000**	**155.1849**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

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					
Off-Road	0.1508	1.2935	1.1503	1.8100e-003		0.0758	0.0758		0.0714	0.0714	0.0000	154.2362	154.2362	0.0379	0.0000	155.1848
Total	**0.1508**	**1.2935**	**1.1503**	**1.8100e-003**		**0.0758**	**0.0758**		**0.0714**	**0.0714**	**0.0000**	**154.2362**	**154.2362**	**0.0379**	**0.0000**	**155.1848**

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	6.0300e-003	0.2112	0.0425	5.7000e-004	0.0154	6.8000e-004	0.0160	4.1300e-003	6.5000e-004	4.7800e-003	0.0000	55.3653	55.3653	2.8500e-003	0.0000	55.4365
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	0.0252	0.0180	0.1864	5.8000e-004	0.0600	4.0000e-004	0.0604	0.0160	3.7000e-004	0.0163	0.0000	52.5441	52.5441	1.2700e-003	0.0000	52.5759
Total	**0.0312**	**0.2292**	**0.2289**	**1.1500e-003**	**0.0753**	**1.0800e-003**	**0.0764**	**0.0201**	**1.0200e-003**	**0.0211**	**0.0000**	**107.9094**	**107.9094**	**4.1200e-003**	**0.0000**	**108.0124**

3.11 Phase 1B-Building Construction - 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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2876	53.2876	0.0129	0.0000	53.6108

Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2876**	**53.2876**	**0.0129**	**0.0000**	**53.6108**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

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					
Off-Road	0.0466	0.4073	0.3906	6.2000e-004		0.0225	0.0225		0.0212	0.0212	0.0000	53.2875	53.2875	0.0129	0.0000	53.6107
Total	**0.0466**	**0.4073**	**0.3906**	**6.2000e-004**		**0.0225**	**0.0225**		**0.0212**	**0.0212**	**0.0000**	**53.2875**	**53.2875**	**0.0129**	**0.0000**	**53.6107**

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	1.9700e-003	0.0674	0.0144	1.9000e-004	0.0134	2.1000e-004	0.0136	3.4000e-003	2.0000e-004	3.6000e-003	0.0000	18.8809	18.8809	9.6000e-004	0.0000	18.9050
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	8.0500e-003	5.5500e-003	0.0588	1.9000e-004	0.0207	1.4000e-004	0.0209	5.5100e-003	1.2000e-004	5.6400e-003	0.0000	17.5147	17.5147	3.9000e-004	0.0000	17.5245
Total	**0.0100**	**0.0729**	**0.0732**	**3.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**8.9100e-003**	**3.2000e-004**	**9.2400e-003**	**0.0000**	**36.3956**	**36.3956**	**1.3500e-003**	**0.0000**	**36.4295**

3.12 Phase 1B-Architectural Coatings - 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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7568**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

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					
Archit. Coating	0.7542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	**0.7568**	**0.0183**	**0.0218**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**3.0639**	**3.0639**	**2.1000e-004**	**0.0000**	**3.0692**

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	7.7000e-004	5.3000e-004	5.6500e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.6833	1.6833	4.0000e-005	0.0000	1.6843
Total	**7.7000e-004**	**5.3000e-004**	**5.6500e-003**	**2.0000e-005**	**1.9900e-003**	**1.0000e-005**	**2.0000e-003**	**5.3000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.6833**	**1.6833**	**4.0000e-005**	**0.0000**	**1.6843**

3.13 Phase 1B-Paving - 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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

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					
Off-Road	6.9100e-003	0.0711	0.0806	1.3000e-004		3.7300e-003	3.7300e-003		3.4300e-003	3.4300e-003	0.0000	11.0129	11.0129	3.5600e-003	0.0000	11.1020
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0383**	**0.0711**	**0.0806**	**1.3000e-004**		**3.7300e-003**	**3.7300e-003**		**3.4300e-003**	**3.4300e-003**	**0.0000**	**11.0129**	**11.0129**	**3.5600e-003**	**0.0000**	**11.1020**

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	9.0000e-005	2.9700e-003	6.3000e-004	1.0000e-005	1.9000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8322	0.8322	4.0000e-005	0.0000	0.8333
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	2.7000e-004	1.9000e-004	1.9700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5878	0.5878	1.0000e-005	0.0000	0.5882
Total	**3.6000e-004**	**3.1600e-003**	**2.6000e-003**	**2.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.3000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**1.4200**	**1.4200**	**5.0000e-005**	**0.0000**	**1.4214**

3.14 Phase 2-Demolition - 2030

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					
Off-Road	0.0310	0.1738	0.3478	7.3000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	63.0830	63.0830	2.5000e-003	0.0000	63.1456

Total	**0.0310**	**0.1738**	**0.3478**	**7.3000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**63.0830**	**63.0830**	**2.5000e-003**	**0.0000**	**63.1456**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

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					
Off-Road	0.0310	0.1738	0.3478	7.3000e-004		5.1400e-003	5.1400e-003		5.1400e-003	5.1400e-003	0.0000	63.0829	63.0829	2.5000e-003	0.0000	63.1455
Total	**0.0310**	**0.1738**	**0.3478**	**7.3000e-004**		**5.1400e-003**	**5.1400e-003**		**5.1400e-003**	**5.1400e-003**	**0.0000**	**63.0829**	**63.0829**	**2.5000e-003**	**0.0000**	**63.1455**

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	1.8000e-003	0.0549	0.0199	2.7000e-004	6.4600e-003	1.0000e-004	6.5600e-003	1.7800e-003	1.0000e-004	1.8700e-003	0.0000	26.2401	26.2401	1.2600e-003	0.0000	26.2716
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	4.6000e-004	2.4000e-004	3.0700e-003	1.0000e-005	2.0500e-003	1.0000e-005	2.0600e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.2663	1.2663	2.0000e-005	0.0000	1.2667
Total	**2.2600e-003**	**0.0552**	**0.0230**	**2.8000e-004**	**8.5100e-003**	**1.1000e-004**	**8.6200e-003**	**2.3300e-003**	**1.1000e-004**	**2.4300e-003**	**0.0000**	**27.5063**	**27.5063**	**1.2800e-003**	**0.0000**	**27.5383**

3.15 Phase 2-Grading/Excavation - 2030

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.3038	0.4524	1.6700e-003		0.0111	0.0111		0.0111	0.0111	0.0000	164.2593	164.2593	6.4000e-003	0.0000	164.4193
Total	**0.0796**	**0.3038**	**0.4524**	**1.6700e-003**	**0.1345**	**0.0111**	**0.1456**	**0.0411**	**0.0111**	**0.0522**	**0.0000**	**164.2593**	**164.2593**	**6.4000e-003**	**0.0000**	**164.4193**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

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					0.1345	0.0000	0.1345	0.0411	0.0000	0.0411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.3038	0.4524	1.6700e-003		0.0111	0.0111		0.0111	0.0111	0.0000	164.2591	164.2591	6.4000e-003	0.0000	164.4191
Total	**0.0796**	**0.3038**	**0.4524**	**1.6700e-003**	**0.1345**	**0.0111**	**0.1456**	**0.0411**	**0.0111**	**0.0522**	**0.0000**	**164.2591**	**164.2591**	**6.4000e-003**	**0.0000**	**164.4191**

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	2.4400e-003	0.0745	0.0270	3.6000e-004	8.7500e-003	1.4000e-004	8.8900e-003	2.4100e-003	1.3000e-004	2.5400e-003	0.0000	35.5821	35.5821	1.7100e-003	0.0000	35.6248
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	6.4000e-004	3.3000e-004	4.2600e-003	2.0000e-005	2.8400e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	1.7533	1.7533	2.0000e-005	0.0000	1.7539
Total	**3.0800e-003**	**0.0748**	**0.0313**	**3.8000e-004**	**0.0116**	**1.5000e-004**	**0.0118**	**3.1700e-003**	**1.4000e-004**	**3.3100e-003**	**0.0000**	**37.3354**	**37.3354**	**1.7300e-003**	**0.0000**	**37.3787**

3.16 Phase 2-Drainage/Utilities/Sub-Grade - 2030

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0058	50.0058	2.4700e-003	0.0000	50.0675
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0058**	**50.0058**	**2.4700e-003**	**0.0000**	**50.0675**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

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					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.1709	0.2037	5.8000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	50.0057	50.0057	2.4700e-003	0.0000	50.0674
Total	**0.0305**	**0.1709**	**0.2037**	**5.8000e-004**	**0.2258**	**5.4600e-003**	**0.2313**	**0.1241**	**5.4600e-003**	**0.1296**	**0.0000**	**50.0057**	**50.0057**	**2.4700e-003**	**0.0000**	**50.0674**

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	4.0000e-004	2.1000e-004	2.6600e-003	1.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.0958	1.0958	1.0000e-005	0.0000	1.0962
Total	**4.0000e-004**	**2.1000e-004**	**2.6600e-003**	**1.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.7900e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.0958**	**1.0958**	**1.0000e-005**	**0.0000**	**1.0962**

3.17 Phase 2-Foundations/Concrete Pour - 2030

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0309	24.0309	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0309**	**24.0309**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0679	0.1447	2.8000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	24.0308	24.0308	8.8000e-004	0.0000	24.0528
Total	**0.0109**	**0.0679**	**0.1447**	**2.8000e-004**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**1.3600e-003**	**1.3600e-003**	**0.0000**	**24.0308**	**24.0308**	**8.8000e-004**	**0.0000**	**24.0528**

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	3.9000e-003	0.1188	0.0430	5.8000e-004	0.0140	2.2000e-004	0.0142	3.8400e-003	2.1000e-004	4.0500e-003	0.0000	56.7390	56.7390	2.7300e-003	0.0000	56.8072
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	4.8000e-004	2.5000e-004	3.1900e-003	1.0000e-005	2.1300e-003	1.0000e-005	2.1400e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.3150	1.3150	2.0000e-005	0.0000	1.3154
Total	**4.3800e-003**	**0.1190**	**0.0462**	**5.9000e-004**	**0.0161**	**2.3000e-004**	**0.0163**	**4.4100e-003**	**2.2000e-004**	**4.6300e-003**	**0.0000**	**58.0539**	**58.0539**	**2.7500e-003**	**0.0000**	**58.1226**

3.18 Phase 2-Building Construction - 2030

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					
Off-Road	0.1703	1.1222	2.3147	4.2300e-003		0.0226	0.0226		0.0226	0.0226	0.0000	361.4273	361.4273	0.0137	0.0000	361.7703
Total	**0.1703**	**1.1222**	**2.3147**	**4.2300e-003**		**0.0226**	**0.0226**		**0.0226**	**0.0226**	**0.0000**	**361.4273**	**361.4273**	**0.0137**	**0.0000**	**361.7703**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

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					
Off-Road	0.1703	1.1222	2.3147	4.2300e-003		0.0226	0.0226		0.0226	0.0226	0.0000	361.4268	361.4268	0.0137	0.0000	361.7699
Total	**0.1703**	**1.1222**	**2.3147**	**4.2300e-003**		**0.0226**	**0.0226**		**0.0226**	**0.0226**	**0.0000**	**361.4268**	**361.4268**	**0.0137**	**0.0000**	**361.7699**

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	7.4700e-003	0.2275	0.0824	1.1100e-003	0.0267	4.1000e-004	0.0272	7.3500e-003	4.0000e-004	7.7500e-003	0.0000	108.6695	108.6695	5.2300e-003	0.0000	108.8002
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	0.0394	0.0204	0.2615	1.1900e-003	0.1748	7.8000e-004	0.1756	0.0465	7.2000e-004	0.0472	0.0000	107.7298	107.7298	1.4000e-003	0.0000	107.7648
Total	**0.0469**	**0.2479**	**0.3439**	**2.3000e-003**	**0.2015**	**1.1900e-003**	**0.2027**	**0.0539**	**1.1200e-003**	**0.0550**	**0.0000**	**216.3994**	**216.3994**	**6.6300e-003**	**0.0000**	**216.5650**

3.19 Phase 2-Architectural Coatings - 2030

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2851**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

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					
Archit. Coating	1.2833					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0114	0.0240	4.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.4043	3.4043	1.4000e-004	0.0000	3.4078
Total	**1.2851**	**0.0114**	**0.0240**	**4.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**3.4043**	**3.4043**	**1.4000e-004**	**0.0000**	**3.4078**

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	1.1400e-003	5.9000e-004	7.5700e-003	3.0000e-005	5.0600e-003	2.0000e-005	5.0800e-003	1.3500e-003	2.0000e-005	1.3700e-003	0.0000	3.1170	3.1170	4.0000e-005	0.0000	3.1180
Total	**1.1400e-003**	**5.9000e-004**	**7.5700e-003**	**3.0000e-005**	**5.0600e-003**	**2.0000e-005**	**5.0800e-003**	**1.3500e-003**	**2.0000e-005**	**1.3700e-003**	**0.0000**	**3.1170**	**3.1170**	**4.0000e-005**	**0.0000**	**3.1180**

3.20 Phase 2-Paving - 2030

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022

Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

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					
Off-Road	0.0111	0.0570	0.1268	2.2000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	19.2796	19.2796	9.0000e-004	0.0000	19.3022
Paving	0.0239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0350**	**0.0570**	**0.1268**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**	**0.0000**	**19.2796**	**19.2796**	**9.0000e-004**	**0.0000**	**19.3022**

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	8.0000e-005	2.3000e-003	8.3000e-004	1.0000e-005	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.0991	1.0991	5.0000e-005	0.0000	1.1004
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	2.3000e-004	1.2000e-004	1.5100e-003	1.0000e-005	1.0100e-003	0.0000	1.0200e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6234	0.6234	1.0000e-005	0.0000	0.6236
Total	**3.1000e-004**	**2.4200e-003**	**2.3400e-003**	**2.0000e-005**	**1.3400e-003**	**0.0000**	**1.3600e-003**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**1.7225**	**1.7225**	**6.0000e-005**	**0.0000**	**1.7240**

3.20 Phase 2-Paving - 2031

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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					
Off-Road	3.4600e-003	0.0178	0.0396	7.0000e-005		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	6.0249	6.0249	2.8000e-004	0.0000	6.0319
Paving	7.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.0178**	**0.0396**	**7.0000e-005**		**8.3000e-004**	**8.3000e-004**		**8.3000e-004**	**8.3000e-004**	**0.0000**	**6.0249**	**6.0249**	**2.8000e-004**	**0.0000**	**6.0319**

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	2.0000e-005	7.1000e-004	2.6000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3422	0.3422	2.0000e-005	0.0000	0.3427
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	7.0000e-005	3.0000e-005	4.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.1904	0.1904	0.0000	0.0000	0.1904
Total	**9.0000e-005**	**7.4000e-004**	**7.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5326**	**0.5326**	**2.0000e-005**	**0.0000**	**0.5331**

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	tons/yr										MT/yr					
Mitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789
Unmitigated	4.7712	21.0617	44.9194	0.1357	10.9016	0.1301	11.0317	2.9263	0.1218	3.0481	0.0000	12,449.6761	12,449.6761	0.5401	0.0000	12,463.1789

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,186.40	7,955.00	4983.16	9,654,403	9,654,403
Gasoline/Service Station	3,371.20	3,371.20	3371.20	1,942,379	1,942,379
Hotel	1,887.27	1,891.89	1374.45	3,447,747	3,447,747
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	312,484	312,484
Strip Mall	9,880.70	9,372.40	4554.66	13,933,023	13,933,023
Total	21,547.17	22,800.69	14,385.62	29,290,036	29,290,036

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	45	40	15
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	14	27	59
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Gasoline/Service Station	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Hotel	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Other Non-Asphalt Surfaces	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Strip Mall	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,574.7779	1,574.7779	0.0712	0.0147	1,580.9484
NaturalGas Mitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023
NaturalGas Unmitigated	0.0367	0.3340	0.2806	2.0000e-003		0.0254	0.0254		0.0254	0.0254	0.0000	363.6414	363.6414	6.9700e-003	6.6700e-003	365.8023

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					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633
Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

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	tons/yr										MT/yr					
Discount Club	350760	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7179	18.7179	3.6000e-004	3.4000e-004	18.8291
Gasoline/Service Station	74483.9	4.0000e-004	3.6500e-003	3.0700e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	3.9748	3.9748	8.0000e-005	7.0000e-005	3.9984
Hotel	5.84892e+006	0.0315	0.2867	0.2408	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1207	312.1207	5.9800e-003	5.7200e-003	313.9754
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	11850	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6324	0.6324	1.0000e-005	1.0000e-005	0.6361
Strip Mall	528368	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1957	28.1957	5.4000e-004	5.2000e-004	28.3633
Total		**0.0367**	**0.3340**	**0.2806**	**2.0000e-003**		**0.0254**	**0.0254**		**0.0254**	**0.0254**	**0.0000**	**363.6414**	**363.6414**	**6.9700e-003**	**6.6600e-003**	**365.8023**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525

Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101
Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	1.58212e+006	460.2569	0.0208	4.3100e-003	462.0603
Gasoline/Service Station	23322.1	6.7847	3.1000e-004	6.0000e-005	6.8113
Hotel	1.00584e+006	292.6104	0.0132	2.7400e-003	293.7569
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	157034	45.6829	2.0700e-003	4.3000e-004	45.8619
Parking Lot	160083	46.5700	2.1100e-003	4.4000e-004	46.7525
Parking Lot	48177.4	14.0154	6.3000e-004	1.3000e-004	14.0703
Strip Mall	2.38323e+006	693.3085	0.0314	6.4900e-003	696.0251
Strip Mall	53450	15.5492	7.0000e-004	1.5000e-004	15.6101
Total		**1,574.7779**	**0.0712**	**0.0148**	**1,580.9484**

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	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Unmitigated	2.3786	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

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	0.2948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0832					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.0700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0118	0.0118	3.0000e-005	0.0000	0.0125
Total	**2.3786**	**6.0000e-005**	**6.0700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0118**	**0.0118**	**3.0000e-005**	**0.0000**	**0.0125**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	82.4607	1.1102	0.0268	118.2054
Unmitigated	82.4607	1.1102	0.0268	118.2054

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145

Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416
Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	10.9627 / 6.71909	27.5760	0.3583	8.6600e-003	39.1145
Gasoline/Service Station	0.265638 / 0.16281	0.6682	8.6800e-003	2.1000e-004	0.9478
Hotel	5.85972 / 0.65108	11.7459	0.1914	4.6000e-003	17.9016
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	42.4707	0.5519	0.0133	60.2416
Total		**82.4607**	**1.1102**	**0.0268**	**118.2054**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	205.6481	12.1535	0.0000	509.4845
Unmitigated	205.6481	12.1535	0.0000	509.4845

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**205.6481**	**12.1535**	**0.0000**	**509.4845**

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

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Construction Haul Truck Idling Emissions

Construction Haul/Vendor Truck GHG Idling Emissions

CO_2	CH_4	N_2O	MT/g
	GWP[1]		0.000001
1	25	298	

Phase 1	First Year of Construction	Total One-Way Truck Trips	Trucks Idling Onsite	Idling Time per truck (min/truck)	CO_2 HHDT Idling EF (g/min)[2,3]	CH_4 HHDT Idling EF (g/min)	N_2O HHDT Idling EF (g/min)	CO_2 Emissions (MT)	CH_4 Emissions (MT)	N_2O Emissions (MT)	$MTCO_2e$
Phase 1A-Grading/Excavation	2020	800	400	15	103.26	1.86E-03	7.13E-02	6.20E-01	1.12E-05	4.28E-04	1
Phase 1A-Drainage/Utilities/Sub-Grade	2020	0	0	15	103.26	1.86E-03	7.13E-02	0.00E+00	0.00E+00	0.00E+00	0
Phase 1A-Foundations/Concrete Pour	2020	1,200	600	15	103.26	1.86E-03	7.13E-02	9.29E-01	1.67E-05	6.42E-04	1
Phase 1A-Building Construction	2020	2,100	1050	15	103.26	1.86E-03	7.13E-02	1.63E+00	2.93E-05	1.12E-03	2
Phase 1A-Architectural Coatings	2020	0	0	15	103.26	1.86E-03	7.13E-02	0.00E+00	0.00E+00	0.00E+00	0
Phase 1A-Paving	2020	14	7	15	103.26	1.86E-03	7.13E-02	1.08E-02	1.95E-07	7.49E-06	0
Phase 1B-Grading/Excavation	2020	680	340	15	103.26	1.86E-03	7.13E-02	5.27E-01	9.49E-06	3.64E-04	1
Phase 1B-Drainage/Utilities/Sub-Grade	2020	0	0	15	103.26	1.86E-03	7.13E-02	0.00E+00	0.00E+00	0.00E+00	0
Phase 1B-Foundations/Concrete Pour	2020	1,020	510	15	103.26	1.86E-03	7.13E-02	7.90E-01	1.42E-05	5.46E-04	1
Phase 1B-Building Construction	2020	1,944	972	15	103.26	1.86E-03	7.13E-02	1.51E+00	2.71E-05	1.04E-03	2
Phase 1B-Architectural Coatings	2021	0	0	15	101.79	1.85E-03	7.20E-02	0.00E+00	0.00E+00	0.00E+00	0
Phase 1B-Paving	2021	22	11	15	101.79	1.85E-03	7.20E-02	1.68E-02	3.05E-07	1.19E-05	0
										Phase 1 Total	**7**

Phase 2	Year	Total One-Way Truck Trips	Trucks Idling Onsite	Idling Time per truck (min/truck)	CO_2 HHDT Idling EF (g/min)	CH_4 HHDT Idling EF (g/min)	N_2O HHDT Idling EF (g/min)	CO_2 Emissions (MT)	CH_4 Emissions (MT)	N_2O Emissions (MT)	$MTCO_2e$
Phase 2-Demolition	2030	764	382	15	85.55	1.82E-03	6.13E-02	4.90E-01	1.04E-05	3.51E-04	0.595
Phase 2-Grading/Excavation	2030	1,036	518	15	85.55	1.82E-03	6.13E-02	6.65E-01	1.42E-05	4.76E-04	0.807
Phase 2-Drainage/Utilities/Sub-Grade	2030	0	0	15	85.55	1.82E-03	6.13E-02	0.00E+00	0.00E+00	0.00E+00	0.000
Phase 2-Foundations/Concrete Pour	2030	1,652	826	15	85.55	1.82E-03	6.13E-02	1.06E+00	2.26E-05	7.60E-04	1.287
Phase 2-Building Construction	2030	3,164	1582	15	85.55	1.82E-03	6.13E-02	2.03E+00	4.33E-05	1.45E-03	2.465
Phase 2-Architectural Coatings	2030	0	0	15	85.55	1.82E-03	6.13E-02	0.00E+00	0.00E+00	0.00E+00	0.000
Phase 2-Paving	2030	42	21	15	85.55	1.82E-03	6.13E-02	2.69E-02	5.74E-07	1.93E-05	0.033
										Phase 2 Total	**5**

Notes:

1. Global Warming Potentials (GWP) based on IPCC AR4, https://www.arb.ca.gov/cc/inventory/background/gwp.htm
2. CO2 and CH4 values from EMFAC2017 desktop version
3. N2O value from EMFAC2017 Web Database

Construction Emissions Summary

Construction GHG Emissions

Construction Phase	Year	CalEEMod Output (exluding Idling Emissions)	GHG Idling Emissions
		$MTCO_2e$	
Phase 1	2020	1,149	7
	2021	107	
	Total	**1,264**	
30-Year Amortization		**42**	
Phase 2	2030	1,032	5
	2031	7	
	Total	**1,043**	
Project Construction Total (Phase 1 + Phase 2)		2,307	
30-Year Amortization		**77**	

Operational Emissions

CalEEMod Output – Phase 1 (2021)

Johnson Drive-Phase 1 Operations-2021

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	293.67	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor based on The Climate Registry's 2018 Emissions Factor Report

Land Use - Project Specific Information

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use - CalEEmod default 2016 T24 energy rates adjusted to represent 2019 T24 energy rates.

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblEnergyUse	LightingElect	5.25	11.98
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.67
tblEnergyUse	NT24E	2.68	8.75
tblEnergyUse	T24E	2.76	6.30
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	39.56	27.69
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDA	0.58	0.60

tblFleetMix	LDA	0.58	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD1	0.02	0.01
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	LHD2	5.3610e-003	5.4306e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MCY	5.9040e-003	5.7734e-003

tblFleetMix	MCY	5.9040e-003	5.7734e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MH	7.8900e-004	6.9182e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	OBUS	2.5810e-003	2.7879e-003
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	SBUS	8.8100e-004	9.5126e-004

tblFleetMix	SBUS	8.8100e-004	9.5126e-004
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblFleetMix	UBUS	2.3490e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	293.67
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	8.18
tblVehicleTrips	ST_TR	42.04	34.97
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00

tblVehicleTrips	SU_TR	5.95	8.18
tblVehicleTrips	SU_TR	20.43	34.97
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	8.18
tblVehicleTrips	WD_TR	44.32	29.88
tblWater	IndoorWaterUseRate	10,962,733.18	4,000,000.00
tblWater	OutdoorWaterUseRate	6,719,094.53	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4349	791.4349	0.1024	0.0000	793.9956
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1136	1,201.1136	0.1088	0.0000	1,203.8323
2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1136**	**1,201.1136**	**0.1088**	**0.0000**	**1,203.8323**

Mitigated Construction

	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

Year	tons/yr										MT/yr					
2020	0.4072	4.0379	3.0056	8.6900e-003	0.5434	0.1456	0.6890	0.1945	0.1358	0.3303	0.0000	791.4346	791.4346	0.1024	0.0000	793.9953
2021	0.4883	4.5565	3.8785	0.0131	0.5554	0.1298	0.6852	0.1510	0.1220	0.2729	0.0000	1,201.1133	1,201.1133	0.1088	0.0000	1,203.8320
2022	1.6696	0.0157	0.0361	9.0000e-005	6.8700e-003	8.6000e-004	7.7400e-003	1.8300e-003	8.6000e-004	2.6900e-003	0.0000	8.1517	8.1517	2.8000e-004	0.0000	8.1588
Maximum	**1.6696**	**4.5565**	**3.8785**	**0.0131**	**0.5554**	**0.1456**	**0.6890**	**0.1945**	**0.1358**	**0.3303**	**0.0000**	**1,201.1133**	**1,201.1133**	**0.1088**	**0.0000**	**1,203.8320**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.5628	1.5628
2	**7-6-2020**	**10-5-2020**	1.4619	1.4619
3	**10-6-2020**	**1-5-2021**	1.4718	1.4718
4	**1-6-2021**	**4-5-2021**	1.3091	1.3091
5	**4-6-2021**	**7-5-2021**	1.3094	1.3094
6	**7-6-2021**	**10-5-2021**	1.3246	1.3246
7	**10-6-2021**	**1-5-2022**	1.3200	1.3200
8	**1-6-2022**	**4-5-2022**	1.3848	1.3848
		Highest	1.5628	1.5628

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003

Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	916.6158	916.6158	0.0710	0.0182	923.8185
Mobile	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603
Water						0.0000	0.0000		0.0000	0.0000	3.3298	8.0504	11.3802	0.3428	8.2400e-003	22.4057
Total	**3.6443**	**6.8842**	**32.2318**	**0.1044**	**9.8892**	**0.1060**	**9.9952**	**2.6513**	**0.1000**	**2.7513**	**161.4598**	**10,285.3316**	**10,446.7913**	**10.0433**	**0.0265**	**10,705.7556**

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Energy	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	916.6158	916.6158	0.0710	0.0182	923.8185
Mobile	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Waste						0.0000	0.0000		0.0000	0.0000	158.1300	0.0000	158.1300	9.3452	0.0000	391.7603
Water						0.0000	0.0000		0.0000	0.0000	3.3298	8.0504	11.3802	0.3428	8.2400e-003	22.4057
Total	**3.6443**	**6.8842**	**32.2318**	**0.1044**	**9.8892**	**0.1060**	**9.9952**	**2.6513**	**0.1000**	**2.7513**	**161.4598**	**10,285.3316**	**10,446.7913**	**10.0433**	**0.0265**	**10,705.7556**

	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	N20	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	Demolition	Demolition	4/6/2020	5/1/2020	5	20	
2	Site Preparation	Site Preparation	5/2/2020	5/15/2020	5	10	
3	Grading	Grading	5/16/2020	7/3/2020	5	35	
4	Building Construction	Building Construction	7/4/2020	12/3/2021	5	370	
5	Paving	Paving	12/4/2021	12/31/2021	5	20	
6	Architectural Coating	Architectural Coating	1/1/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 18.08

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 431,735; Non-Residential Outdoor: 143,912; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	436.00	176.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2386**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391
Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

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					
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	**0.0331**	**0.3320**	**0.2175**	**3.9000e-004**		**0.0166**	**0.0166**		**0.0154**	**0.0154**	**0.0000**	**33.9986**	**33.9986**	**9.6000e-003**	**0.0000**	**34.2385**

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	5.0000e-004	3.6000e-004	3.6800e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0384	1.0384	3.0000e-005	0.0000	1.0391
Total	**5.0000e-004**	**3.6000e-004**	**3.6800e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0384**	**1.0384**	**3.0000e-005**	**0.0000**	**1.0391**

3.3 Site Preparation - 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234

Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

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	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	**3.0000e-004**	**2.1000e-004**	**2.2100e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.6231**	**0.6231**	**2.0000e-005**	**0.0000**	**0.6234**

3.4 Grading - 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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3475	95.3475	0.0308	0.0000	96.1185
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3475**	**95.3475**	**0.0308**	**0.0000**	**96.1185**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

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					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8785	0.5593	1.0900e-003		0.0380	0.0380		0.0350	0.0350	0.0000	95.3474	95.3474	0.0308	0.0000	96.1183
Total	**0.0779**	**0.8785**	**0.5593**	**1.0900e-003**	**0.1518**	**0.0380**	**0.1898**	**0.0629**	**0.0350**	**0.0979**	**0.0000**	**95.3474**	**95.3474**	**0.0308**	**0.0000**	**96.1183**

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	1.1600e-003	8.3000e-004	8.6000e-003	3.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.4230	2.4230	6.0000e-005	0.0000	2.4245
Total	**1.1600e-003**	**8.3000e-004**	**8.6000e-003**	**3.0000e-005**	**2.7700e-003**	**2.0000e-005**	**2.7800e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**2.4230**	**2.4230**	**6.0000e-005**	**0.0000**	**2.4245**

3.5 Building Construction - 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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3884	149.3884	0.0365	0.0000	150.2996
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3884**	**149.3884**	**0.0365**	**0.0000**	**150.2996**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010
Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

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					
Off-Road	0.1367	1.2375	1.0867	1.7400e-003		0.0721	0.0721		0.0678	0.0678	0.0000	149.3883	149.3883	0.0365	0.0000	150.2994
Total	**0.1367**	**1.2375**	**1.0867**	**1.7400e-003**		**0.0721**	**0.0721**		**0.0678**	**0.0678**	**0.0000**	**149.3883**	**149.3883**	**0.0365**	**0.0000**	**150.2994**

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	0.0439	1.3098	0.3293	3.0900e-003	0.0744	6.3900e-003	0.0808	0.0215	6.1100e-003	0.0276	0.0000	297.2174	297.2174	0.0153	0.0000	297.6007
Worker	0.0932	0.0667	0.6907	2.1500e-003	0.2222	1.5000e-003	0.2237	0.0591	1.3800e-003	0.0605	0.0000	194.6832	194.6832	4.7100e-003	0.0000	194.8010
Total	**0.1371**	**1.3765**	**1.0200**	**5.2400e-003**	**0.2967**	**7.8900e-003**	**0.3045**	**0.0807**	**7.4900e-003**	**0.0881**	**0.0000**	**491.9006**	**491.9006**	**0.0200**	**0.0000**	**492.4016**

3.5 Building Construction - 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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1229	279.1229	0.0673	0.0000	280.8064
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1229**	**279.1229**	**0.0673**	**0.0000**	**280.8064**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453

Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

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					
Off-Road	0.2291	2.1006	1.9973	3.2400e-003		0.1155	0.1155		0.1086	0.1086	0.0000	279.1226	279.1226	0.0673	0.0000	280.8061
Total	**0.2291**	**2.1006**	**1.9973**	**3.2400e-003**		**0.1155**	**0.1155**		**0.1086**	**0.1086**	**0.0000**	**279.1226**	**279.1226**	**0.0673**	**0.0000**	**280.8061**

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	0.0673	2.2152	0.5529	5.7200e-003	0.1391	4.8200e-003	0.1439	0.0402	4.6100e-003	0.0448	0.0000	550.0167	550.0167	0.0270	0.0000	550.6926
Worker	0.1612	0.1112	1.1784	3.8800e-003	0.4151	2.7200e-003	0.4179	0.1104	2.5000e-003	0.1129	0.0000	350.9486	350.9486	7.8700e-003	0.0000	351.1453
Total	**0.2286**	**2.3264**	**1.7313**	**9.6000e-003**	**0.5542**	**7.5400e-003**	**0.5618**	**0.1507**	**7.1100e-003**	**0.1578**	**0.0000**	**900.9653**	**900.9653**	**0.0349**	**0.0000**	**901.8380**

3.6 Paving - 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					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

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					

Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0302**	**0.1292**	**0.1465**	**2.3000e-004**		**6.7800e-003**	**6.7800e-003**		**6.2400e-003**	**6.2400e-003**	**0.0000**	**20.0235**	**20.0235**	**6.4800e-003**	**0.0000**	**20.1854**

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	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
Total	**4.6000e-004**	**3.2000e-004**	**3.3600e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.1900e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0020**	**1.0020**	**2.0000e-005**	**0.0000**	**1.0026**

3.7 Architectural Coating - 2022

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014
Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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					
Archit. Coating	1.6651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**1.6671**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

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	2.4900e-003	1.6500e-003	0.0179	6.0000e-005	6.8700e-003	4.0000e-005	6.9200e-003	1.8300e-003	4.0000e-005	1.8700e-003	0.0000	5.5985	5.5985	1.2000e-004	0.0000	5.6014
Total	**2.4900e-003**	**1.6500e-003**	**0.0179**	**6.0000e-005**	**6.8700e-003**	**4.0000e-005**	**6.9200e-003**	**1.8300e-003**	**4.0000e-005**	**1.8700e-003**	**0.0000**	**5.5985**	**5.5985**	**1.2000e-004**	**0.0000**	**5.6014**

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	tons/yr										MT/yr					
Mitigated	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632
Unmitigated	2.5508	6.6589	32.0387	0.1030	9.8892	0.0889	9.9781	2.6513	0.0829	2.7342	0.0000	9,360.6579	9,360.6579	0.2842	0.0000	9,367.7632

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
Hotel	1,889.58	1,889.58	1889.58	5,314,548	5,314,548
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	149.40	174.85	174.85	437,134	437,134
Total	8,999.42	10,914.83	10,914.83	26,684,880	26,684,880

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Hotel	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	671.4701	671.4701	0.0663	0.0137	677.2160
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	671.4701	671.4701	0.0663	0.0137	677.2160
NaturalGas Mitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1457	245.1457	4.7000e-003	4.4900e-003	246.6025
NaturalGas Unmitigated	0.0248	0.2252	0.1892	1.3500e-003		0.0171	0.0171		0.0171	0.0171	0.0000	245.1457	245.1457	4.7000e-003	4.4900e-003	246.6025

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					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
Hotel	4.28208e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5081	228.5081	4.3800e-003	4.1900e-003	229.8660
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	8300	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4429	0.4429	1.0000e-005	1.0000e-005	0.4456
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1457**	**245.1457**	**4.7000e-003**	**4.5000e-003**	**246.6025**

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	tons/yr										MT/yr					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
Hotel	4.28208e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5081	228.5081	4.3800e-003	4.1900e-003	229.8660
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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

Strip Mall	8300	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4429	0.4429	1.0000e-005	1.0000e-005	0.4456
Total		**0.0248**	**0.2252**	**0.1892**	**1.3500e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**245.1457**	**245.1457**	**4.7000e-003**	**4.5000e-003**	**246.6025**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	4.00044e+006	532.8845	0.0526	0.0109	537.4445
Gasoline/Service Station	19482.2	2.5952	2.6000e-004	5.0000e-005	2.6174
Hotel	832920	110.9503	0.0110	2.2700e-003	111.8998
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.9414	1.4800e-003	3.1000e-004	15.0692
Parking Lot	34412.4	4.5840	4.5000e-004	9.0000e-005	4.6232
Strip Mall	41400	5.5148	5.4000e-004	1.1000e-004	5.5619
Total		**671.4701**	**0.0663**	**0.0137**	**677.2160**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	4.00044e+006	532.8845	0.0526	0.0109	537.4445

Gasoline/Service Station	19482.2	2.5952	2.6000e-004	5.0000e-005	2.6174
Hotel	832920	110.9503	0.0110	2.2700e-003	111.8998
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.9414	1.4800e-003	3.1000e-004	15.0692
Parking Lot	34412.4	4.5840	4.5000e-004	9.0000e-005	4.6232
Strip Mall	41400	5.5148	5.4000e-004	1.1000e-004	5.5619
Total		**671.4701**	**0.0663**	**0.0137**	**677.2160**

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	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Unmitigated	1.0687	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Total	**1.0687**	**4.0000e-005**	**3.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0400e-003**

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	0.1665					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.5400e-003	7.5400e-003	2.0000e-005	0.0000	8.0400e-003
Total	**1.0687**	**4.0000e-005**	**3.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**7.5400e-003**	**7.5400e-003**	**2.0000e-005**	**0.0000**	**8.0400e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.3802	0.3428	8.2400e-003	22.4057
Unmitigated	11.3802	0.3428	8.2400e-003	22.4057

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	4 / 0	4.1521	0.1306	3.1400e-003	8.3524
Gasoline/Service Station	0.265638 / 0.16281	0.3517	8.6800e-003	2.1000e-004	0.6312
Hotel	5.85972 / 0.65108	6.3861	0.1914	4.6000e-003	12.5419
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4903	0.0121	2.9000e-004	0.8801
Total		**11.3802**	**0.3428**	**8.2400e-003**	**22.4057**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	4 / 0	4.1521	0.1306	3.1400e-003	8.3524
Gasoline/Service Station	0.265638 / 0.16281	0.3517	8.6800e-003	2.1000e-004	0.6312
Hotel	5.85972 / 0.65108	6.3861	0.1914	4.6000e-003	12.5419
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.4903	0.0121	2.9000e-004	0.8801

Total		**11.3802**	**0.3428**	**8.2400e-003**	**22.4057**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	158.1300	9.3452	0.0000	391.7603
Unmitigated	158.1300	9.3452	0.0000	391.7603

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402

Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		**158.1300**	**9.3452**	**0.0000**	**391.7603**

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

CalEEMod Output – Full-Buildout (2031)

Johnson Drive-Full Buildout Operations-2031

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.55	1000sqft	0.63	27,550.00	0
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	0
Other Non-Asphalt Surfaces	1.22	Acre	1.22	53,143.20	0
Other Non-Asphalt Surfaces	2.80	Acre	2.80	121,968.00	0
Parking Lot	10.30	Acre	10.30	448,668.00	0
Parking Lot	3.16	Acre	3.16	137,649.60	0
Parking Lot	10.50	Acre	10.50	457,380.00	0
Hotel	231.00	Room	0.77	132,000.00	0
Discount Club	148.00	1000sqft	3.40	148,000.00	0
Gasoline/Service Station	20.00	Pump	0.06	2,823.50	0
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Strip Mall	222.94	1000sqft	5.12	222,940.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2031
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	276.04	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 emission factor modified to reflect PG&E's 2030 RPS

Land Use - Project Specific Information

Vehicle Trips - Trip rates based on Fehr and Peers trip generation analysis for 2015 FEIR

Consumer Products - Consumer Product emission factor based on Ramboll derivation

Energy Use - CalEEmod default 2016 T24 energy rates adjusted to represent 2019 T24 energy rates.

Table Name	Column Name	Default Value	New Value
tblConsumerProducts	ROG_EF	2.14E-05	1.62E-05
tblEnergyUse	LightingElect	5.25	11.98
tblEnergyUse	LightingElect	3.08	2.16
tblEnergyUse	LightingElect	2.35	1.65
tblEnergyUse	LightingElect	0.35	0.25
tblEnergyUse	LightingElect	5.25	3.67
tblEnergyUse	NT24E	2.68	8.75
tblEnergyUse	T24E	2.76	6.30
tblEnergyUse	T24E	1.48	1.04
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	2.76	1.93
tblEnergyUse	T24NG	2.37	1.66
tblEnergyUse	T24NG	19.71	13.80
tblEnergyUse	T24NG	39.56	27.69
tblEnergyUse	T24NG	2.37	1.66
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.59	0.60

tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDA	0.59	0.60
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD1	0.01	0.01
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	LHD2	5.2750e-003	5.4306e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003

tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MCY	5.6080e-003	5.7734e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MH	6.7200e-004	6.9182e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	OBUS	2.7080e-003	2.7879e-003
tblFleetMix	SBUS	9.2400e-004	9.5126e-004

tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	SBUS	9.2400e-004	9.5126e-004
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblFleetMix	UBUS	1.7610e-003	1.8130e-003
tblLandUse	LandUseSquareFeet	335,412.00	132,000.00
tblLandUse	LotAcreage	7.70	0.77
tblProjectCharacteristics	CO2IntensityFactor	641.35	276.04
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	DV_TP	27.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PB_TP	59.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	PR_TP	14.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00

tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	53.75	59.80
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	8.19	8.18
tblVehicleTrips	ST_TR	42.04	34.97
tblVehicleTrips	SU_TR	33.67	59.80
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	0.68	1.32
tblVehicleTrips	SU_TR	5.95	8.18
tblVehicleTrips	SU_TR	20.43	34.97
tblVehicleTrips	WD_TR	41.80	47.03
tblVehicleTrips	WD_TR	168.56	0.00
tblVehicleTrips	WD_TR	8.17	8.18
tblVehicleTrips	WD_TR	44.32	29.88
tblWater	IndoorWaterUseRate	10,962,733.18	4,000,000.00
tblWater	OutdoorWaterUseRate	6,719,094.53	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4296	4.4633	2.9692	7.2900e-003	0.7646	0.1820	0.9466	0.3295	0.1684	0.4980	0.0000	656.4368	656.4368	0.1283	0.0000	659.6431
2021	0.6825	6.7382	5.4549	0.0218	1.0528	0.1395	1.1923	0.2863	0.1312	0.4175	0.0000	2,022.4875	2,022.4875	0.1397	0.0000	2,025.9808
2022	0.6253	6.2303	5.1633	0.0214	1.0487	0.1182	1.1669	0.2852	0.1112	0.3964	0.0000	1,980.2791	1,980.2791	0.1349	0.0000	1,983.6515

2023	1.8613	3.8538	3.8459	0.0152	0.7443	0.0839	0.8282	0.2023	0.0786	0.2809	0.0000	1,406.5002	1,406.5002	0.1053	0.0000	1,409.1334
2024	1.6950	0.0218	0.0672	1.9000e-004	0.0180	1.0200e-003	0.0190	4.7900e-003	1.0200e-003	5.8100e-003	0.0000	17.3814	17.3814	4.6000e-004	0.0000	17.3929
Maximum	**1.8613**	**6.7382**	**5.4549**	**0.0218**	**1.0528**	**0.1820**	**1.1923**	**0.3295**	**0.1684**	**0.4980**	**0.0000**	**2,022.4875**	**2,022.4875**	**0.1397**	**0.0000**	**2,025.9808**

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2020	0.4296	4.4633	2.9692	7.2900e-003	0.7646	0.1820	0.9466	0.3295	0.1684	0.4980	0.0000	656.4364	656.4364	0.1283	0.0000	659.6426
2021	0.6825	6.7382	5.4549	0.0218	1.0528	0.1395	1.1923	0.2863	0.1312	0.4175	0.0000	2,022.4871	2,022.4871	0.1397	0.0000	2,025.9804
2022	0.6253	6.2303	5.1633	0.0214	1.0487	0.1182	1.1669	0.2852	0.1112	0.3964	0.0000	1,980.2788	1,980.2788	0.1349	0.0000	1,983.6511
2023	1.8613	3.8538	3.8459	0.0152	0.7443	0.0839	0.8282	0.2023	0.0786	0.2809	0.0000	1,406.4998	1,406.4998	0.1053	0.0000	1,409.1331
2024	1.6950	0.0218	0.0672	1.9000e-004	0.0180	1.0200e-003	0.0190	4.7900e-003	1.0200e-003	5.8100e-003	0.0000	17.3814	17.3814	4.6000e-004	0.0000	17.3929
Maximum	**1.8613**	**6.7382**	**5.4549**	**0.0218**	**1.0528**	**0.1820**	**1.1923**	**0.3295**	**0.1684**	**0.4980**	**0.0000**	**2,022.4871**	**2,022.4871**	**0.1397**	**0.0000**	**2,025.9804**

	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	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-6-2020**	**7-5-2020**	1.2715	1.2715
2	**7-6-2020**	**10-5-2020**	1.7439	1.7439
3	**10-6-2020**	**1-5-2021**	1.9713	1.9713
4	**1-6-2021**	**4-5-2021**	1.8385	1.8385
5	**4-6-2021**	**7-5-2021**	1.8338	1.8338
6	**7-6-2021**	**10-5-2021**	1.8554	1.8554

7	**10-6-2021**	**1-5-2022**	1.8734	1.8734
8	**1-6-2022**	**4-5-2022**	1.7046	1.7046
9	**4-6-2022**	**7-5-2022**	1.7013	1.7013
10	**7-6-2022**	**10-5-2022**	1.7213	1.7213
11	**10-6-2022**	**1-5-2023**	1.7278	1.7278
12	**1-6-2023**	**4-5-2023**	1.4165	1.4165
13	**4-6-2023**	**7-5-2023**	1.4148	1.4148
14	**7-6-2023**	**10-5-2023**	1.1305	1.1305
15	**10-6-2023**	**1-5-2024**	1.9419	1.9419
16	**1-6-2024**	**4-5-2024**	1.4315	1.4315
		Highest	1.9713	1.9713

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	1,208.7773	1,208.7773	0.1009	0.0252	1,218.8217
Mobile	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Waste						0.0000	0.0000		0.0000	0.0000	212.5823	0.0000	212.5823	12.5633	0.0000	526.6636
Water						0.0000	0.0000		0.0000	0.0000	10.5901	27.5072	38.0972	1.0906	0.0263	73.1937
Total	**4.6540**	**6.7882**	**31.8779**	**0.1354**	**17.2757**	**0.1134**	**17.3891**	**4.6302**	**0.1068**	**4.7370**	**223.1724**	**13,438.1339**	**13,661.3062**	**14.0551**	**0.0515**	**14,028.0371**

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	1,208.7773	1,208.7773	0.1009	0.0252	1,218.8217
Mobile	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Waste						0.0000	0.0000		0.0000	0.0000	212.5823	0.0000	212.5823	12.5633	0.0000	526.6636
Water						0.0000	0.0000		0.0000	0.0000	10.5901	27.5072	38.0972	1.0906	0.0263	73.1937
Total	**4.6540**	**6.7882**	**31.8779**	**0.1354**	**17.2757**	**0.1134**	**17.3891**	**4.6302**	**0.1068**	**4.7370**	**223.1724**	**13,438.1339**	**13,661.3062**	**14.0551**	**0.0515**	**14,028.0371**

	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	N20	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	Demolition	Demolition	4/6/2020	6/12/2020	5	50	
2	Site Preparation	Site Preparation	6/13/2020	7/24/2020	5	30	
3	Grading	Grading	7/25/2020	11/6/2020	5	75	
4	Building Construction	Building Construction	11/7/2020	9/8/2023	5	740	
5	Paving	Paving	9/9/2023	11/24/2023	5	55	
6	Architectural Coating	Architectural Coating	11/25/2023	2/9/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 31.38

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 807,470; Non-Residential Outdoor: 269,157; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	762.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	152.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9965	84.9965	0.0240	0.0000	85.5964
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9965**	**84.9965**	**0.0240**	**0.0000**	**85.5964**

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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976

Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

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					
Off-Road	0.0828	0.8300	0.5438	9.7000e-004		0.0415	0.0415		0.0386	0.0386	0.0000	84.9964	84.9964	0.0240	0.0000	85.5963
Total	**0.0828**	**0.8300**	**0.5438**	**9.7000e-004**		**0.0415**	**0.0415**		**0.0386**	**0.0386**	**0.0000**	**84.9964**	**84.9964**	**0.0240**	**0.0000**	**85.5963**

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	1.2400e-003	8.9000e-004	9.2100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5961	2.5961	6.0000e-005	0.0000	2.5976
Total	**1.2400e-003**	**8.9000e-004**	**9.2100e-003**	**3.0000e-005**	**2.9600e-003**	**2.0000e-005**	**2.9800e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.5961**	**2.5961**	**6.0000e-005**	**0.0000**	**2.5976**

3.3 Site Preparation - 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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5515
Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5515**

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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6363	0.3227	5.7000e-004		0.0330	0.0330		0.0303	0.0303	0.0000	50.1460	50.1460	0.0162	0.0000	50.5514
Total	**0.0612**	**0.6363**	**0.3227**	**5.7000e-004**	**0.2710**	**0.0330**	**0.3040**	**0.1490**	**0.0303**	**0.1793**	**0.0000**	**50.1460**	**50.1460**	**0.0162**	**0.0000**	**50.5514**

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	8.9000e-004	6.4000e-004	6.6300e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8692	1.8692	5.0000e-005	0.0000	1.8703
Total	**8.9000e-004**	**6.4000e-004**	**6.6300e-003**	**2.0000e-005**	**2.1300e-003**	**1.0000e-005**	**2.1500e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.8692**	**1.8692**	**5.0000e-005**	**0.0000**	**1.8703**

3.4 Grading - 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3161	204.3161	0.0661	0.0000	205.9681
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3161**	**204.3161**	**0.0661**	**0.0000**	**205.9681**

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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.8824	1.1984	2.3300e-003		0.0815	0.0815		0.0750	0.0750	0.0000	204.3159	204.3159	0.0661	0.0000	205.9679
Total	**0.1669**	**1.8824**	**1.1984**	**2.3300e-003**	**0.3253**	**0.0815**	**0.4068**	**0.1349**	**0.0750**	**0.2099**	**0.0000**	**204.3159**	**204.3159**	**0.0661**	**0.0000**	**205.9679**

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	2.4900e-003	1.7800e-003	0.0184	6.0000e-005	5.9300e-003	4.0000e-005	5.9700e-003	1.5800e-003	4.0000e-005	1.6100e-003	0.0000	5.1921	5.1921	1.3000e-004	0.0000	5.1953
Total	**2.4900e-003**	**1.7800e-003**	**0.0184**	**6.0000e-005**	**5.9300e-003**	**4.0000e-005**	**5.9700e-003**	**1.5800e-003**	**4.0000e-005**	**1.6100e-003**	**0.0000**	**5.1921**	**5.1921**	**1.3000e-004**	**0.0000**	**5.1953**

3.5 Building Construction - 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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1640	45.1640	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1640**	**45.1640**	**0.0110**	**0.0000**	**45.4394**

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	0.0235	0.7020	0.1765	1.6600e-003	0.0399	3.4200e-003	0.0433	0.0115	3.2700e-003	0.0148	0.0000	159.2909	159.2909	8.2200e-003	0.0000	159.4963
Worker	0.0493	0.0352	0.3650	1.1400e-003	0.1174	7.9000e-004	0.1182	0.0312	7.3000e-004	0.0320	0.0000	102.8660	102.8660	2.4900e-003	0.0000	102.9282

Total	**0.0728**	**0.7372**	**0.5414**	**2.8000e-003**	**0.1573**	**4.2100e-003**	**0.1615**	**0.0428**	**4.0000e-003**	**0.0468**	**0.0000**	**262.1569**	**262.1569**	**0.0107**	**0.0000**	**262.4246**

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					
Off-Road	0.0413	0.3741	0.3286	5.2000e-004		0.0218	0.0218		0.0205	0.0205	0.0000	45.1639	45.1639	0.0110	0.0000	45.4394
Total	**0.0413**	**0.3741**	**0.3286**	**5.2000e-004**		**0.0218**	**0.0218**		**0.0205**	**0.0205**	**0.0000**	**45.1639**	**45.1639**	**0.0110**	**0.0000**	**45.4394**

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	0.0235	0.7020	0.1765	1.6600e-003	0.0399	3.4200e-003	0.0433	0.0115	3.2700e-003	0.0148	0.0000	159.2909	159.2909	8.2200e-003	0.0000	159.4963
Worker	0.0493	0.0352	0.3650	1.1400e-003	0.1174	7.9000e-004	0.1182	0.0312	7.3000e-004	0.0320	0.0000	102.8660	102.8660	2.4900e-003	0.0000	102.9282
Total	**0.0728**	**0.7372**	**0.5414**	**2.8000e-003**	**0.1573**	**4.2100e-003**	**0.1615**	**0.0428**	**4.0000e-003**	**0.0468**	**0.0000**	**262.1569**	**262.1569**	**0.0107**	**0.0000**	**262.4246**

3.5 Building Construction - 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					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

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	0.1293	4.2528	1.0615	0.0110	0.2670	9.2500e-003	0.2763	0.0772	8.8500e-003	0.0861	0.0000	1,055.9448	1,055.9448	0.0519	0.0000	1,057.2426
Worker	0.3052	0.2106	2.2303	7.3400e-003	0.7858	5.1400e-003	0.7909	0.2090	4.7300e-003	0.2138	0.0000	664.2560	664.2560	0.0149	0.0000	664.6283
Total	**0.4344**	**4.4633**	**3.2918**	**0.0183**	**1.0528**	**0.0144**	**1.0672**	**0.2863**	**0.0136**	**0.2998**	**0.0000**	**1,720.2008**	**1,720.2008**	**0.0668**	**0.0000**	**1,721.8709**

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					

Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

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	0.1293	4.2528	1.0615	0.0110	0.2670	9.2500e-003	0.2763	0.0772	8.8500e-003	0.0861	0.0000	1,055.9448	1,055.9448	0.0519	0.0000	1,057.2426
Worker	0.3052	0.2106	2.2303	7.3400e-003	0.7858	5.1400e-003	0.7909	0.2090	4.7300e-003	0.2138	0.0000	664.2560	664.2560	0.0149	0.0000	664.6283
Total	**0.4344**	**4.4633**	**3.2918**	**0.0183**	**1.0528**	**0.0144**	**1.0672**	**0.2863**	**0.0136**	**0.2998**	**0.0000**	**1,720.2008**	**1,720.2008**	**0.0668**	**0.0000**	**1,721.8709**

3.5 Building Construction - 2022

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

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	0.1201	4.0122	0.9943	0.0108	0.2660	7.9900e-003	0.2740	0.0769	7.6400e-003	0.0846	0.0000	1,041.5847	1,041.5847	0.0494	0.0000	1,042.8202
Worker	0.2834	0.1881	2.0418	7.0500e-003	0.7828	5.0000e-003	0.7878	0.2082	4.6100e-003	0.2128	0.0000	637.4516	637.4516	0.0133	0.0000	637.7842
Total	**0.4035**	**4.2003**	**3.0361**	**0.0179**	**1.0487**	**0.0130**	**1.0617**	**0.2852**	**0.0123**	**0.2974**	**0.0000**	**1,679.0363**	**1,679.0363**	**0.0627**	**0.0000**	**1,680.6044**

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					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

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	0.1201	4.0122	0.9943	0.0108	0.2660	7.9900e-003	0.2740	0.0769	7.6400e-003	0.0846	0.0000	1,041.5847	1,041.5847	0.0494	0.0000	1,042.8202
Worker	0.2834	0.1881	2.0418	7.0500e-003	0.7828	5.0000e-003	0.7878	0.2082	4.6100e-003	0.2128	0.0000	637.4516	637.4516	0.0133	0.0000	637.7842
Total	**0.4035**	**4.2003**	**3.0361**	**0.0179**	**1.0487**	**0.0130**	**1.0617**	**0.2852**	**0.0123**	**0.2974**	**0.0000**	**1,679.0363**	**1,679.0363**	**0.0627**	**0.0000**	**1,680.6044**

3.5 Building Construction - 2023

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6243	208.6243	0.0496	0.0000	209.8650
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6243**	**208.6243**	**0.0496**	**0.0000**	**209.8650**

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	0.0624	2.1416	0.6162	7.2800e-003	0.1842	2.4600e-003	0.1866	0.0533	2.3500e-003	0.0556	0.0000	700.8879	700.8879	0.0292	0.0000	701.6169
Worker	0.1835	0.1171	1.3003	4.6900e-003	0.5419	3.3900e-003	0.5453	0.1442	3.1200e-003	0.1473	0.0000	424.4115	424.4115	8.2600e-003	0.0000	424.6179

Total	**0.2458**	**2.2587**	**1.9164**	**0.0120**	**0.7261**	**5.8500e-003**	**0.7319**	**0.1974**	**5.4700e-003**	**0.2029**	**0.0000**	**1,125.2994**	**1,125.2994**	**0.0374**	**0.0000**	**1,126.2349**

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					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6240	208.6240	0.0496	0.0000	209.8647
Total	**0.1416**	**1.2946**	**1.4620**	**2.4300e-003**		**0.0630**	**0.0630**		**0.0593**	**0.0593**	**0.0000**	**208.6240**	**208.6240**	**0.0496**	**0.0000**	**209.8647**

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	0.0624	2.1416	0.6162	7.2800e-003	0.1842	2.4600e-003	0.1866	0.0533	2.3500e-003	0.0556	0.0000	700.8879	700.8879	0.0292	0.0000	701.6169
Worker	0.1835	0.1171	1.3003	4.6900e-003	0.5419	3.3900e-003	0.5453	0.1442	3.1200e-003	0.1473	0.0000	424.4115	424.4115	8.2600e-003	0.0000	424.6179
Total	**0.2458**	**2.2587**	**1.9164**	**0.0120**	**0.7261**	**5.8500e-003**	**0.7319**	**0.1974**	**5.4700e-003**	**0.2029**	**0.0000**	**1,125.2994**	**1,125.2994**	**0.0374**	**0.0000**	**1,126.2349**

3.6 Paving - 2023

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					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0739**	**55.0739**	**0.0178**	**0.0000**	**55.5192**

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

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					

Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0598**	**0.2803**	**0.4011**	**6.3000e-004**		**0.0140**	**0.0140**		**0.0129**	**0.0129**	**0.0000**	**55.0738**	**55.0738**	**0.0178**	**0.0000**	**55.5191**

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	1.1000e-003	7.0000e-004	7.8200e-003	3.0000e-005	3.2600e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.5528	2.5528	5.0000e-005	0.0000	2.5540
Total	**1.1000e-003**	**7.0000e-004**	**7.8200e-003**	**3.0000e-005**	**3.2600e-003**	**2.0000e-005**	**3.2800e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.5528**	**2.5528**	**5.0000e-005**	**0.0000**	**2.5540**

3.7 Architectural Coating - 2023

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					
Archit. Coating	1.4055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4079**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

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	5.0800e-003	3.2400e-003	0.0360	1.3000e-004	0.0150	9.0000e-005	0.0151	3.9900e-003	9.0000e-005	4.0800e-003	0.0000	11.7583	11.7583	2.3000e-004	0.0000	11.7640
Total	**5.0800e-003**	**3.2400e-003**	**0.0360**	**1.3000e-004**	**0.0150**	**9.0000e-005**	**0.0151**	**3.9900e-003**	**9.0000e-005**	**4.0800e-003**	**0.0000**	**11.7583**	**11.7583**	**2.3000e-004**	**0.0000**	**11.7640**

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					
Archit. Coating	1.4055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0163	0.0226	4.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	3.1916	3.1916	1.9000e-004	0.0000	3.1963
Total	**1.4079**	**0.0163**	**0.0226**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.9000e-004**	**8.9000e-004**	**0.0000**	**3.1916**	**3.1916**	**1.9000e-004**	**0.0000**	**3.1963**

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	5.0800e-003	3.2400e-003	0.0360	1.3000e-004	0.0150	9.0000e-005	0.0151	3.9900e-003	9.0000e-005	4.0800e-003	0.0000	11.7583	11.7583	2.3000e-004	0.0000	11.7640
Total	**5.0800e-003**	**3.2400e-003**	**0.0360**	**1.3000e-004**	**0.0150**	**9.0000e-005**	**0.0151**	**3.9900e-003**	**9.0000e-005**	**4.0800e-003**	**0.0000**	**11.7583**	**11.7583**	**2.3000e-004**	**0.0000**	**11.7640**

3.7 Architectural Coating - 2024

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					
Archit. Coating	1.6866					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.6893**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

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	5.7300e-003	3.5100e-003	0.0400	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7900e-003	1.0000e-004	4.8900e-003	0.0000	13.5515	13.5515	2.5000e-004	0.0000	13.5577

Total	**5.7300e-003**	**3.5100e-003**	**0.0400**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7900e-003**	**1.0000e-004**	**4.8900e-003**	**0.0000**	**13.5515**	**13.5515**	**2.5000e-004**	**0.0000**	**13.5577**

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					
Archit. Coating	1.6866					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	**1.6893**	**0.0183**	**0.0272**	**4.0000e-005**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.8299**	**3.8299**	**2.2000e-004**	**0.0000**	**3.8353**

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	5.7300e-003	3.5100e-003	0.0400	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7900e-003	1.0000e-004	4.8900e-003	0.0000	13.5515	13.5515	2.5000e-004	0.0000	13.5577
Total	**5.7300e-003**	**3.5100e-003**	**0.0400**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7900e-003**	**1.0000e-004**	**4.8900e-003**	**0.0000**	**13.5515**	**13.5515**	**2.5000e-004**	**0.0000**	**13.5577**

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	tons/yr										MT/yr					
Mitigated	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451
Unmitigated	2.6336	6.5091	31.6373	0.1338	17.2757	0.0922	17.3679	4.6302	0.0856	4.7158	0.0000	12,201.8372	12,201.8372	0.3003	0.0000	12,209.3451

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Discount Club	6,960.44	8,850.40	8850.40	20,933,198	20,933,198
Gasoline/Service Station	0.00	0.00	0.00		
General Light Industry	192.02	36.37	36.37	461,783	461,783
Hotel	1,889.58	1,889.58	1889.58	5,314,548	5,314,548
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	149.40	174.85	174.85	437,134	437,134
Strip Mall	6,661.45	7,796.21	7796.21	19,490,935	19,490,935
Total	15,852.89	18,747.41	18,747.41	46,637,598	46,637,598

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Discount Club	9.50	7.30	7.30	16.70	64.30	19.00	100	0	0
Gasoline/Service Station	9.50	7.30	7.30	2.00	79.00	19.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	100	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0

Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Discount Club	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Gasoline/Service Station	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
General Light Industry	0.586201	0.036350	0.193475	0.106225	0.012556	0.005275	0.019589	0.028655	0.002708	0.001761	0.005608	0.000924	0.000672
Hotel	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Other Non-Asphalt Surfaces	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Parking Lot	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692
Strip Mall	0.603495	0.037422	0.199183	0.109359	0.012926	0.005431	0.020167	0.000000	0.002788	0.001813	0.005773	0.000951	0.000692

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	905.0995	905.0995	0.0951	0.0197	913.3393
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	905.0995	905.0995	0.0951	0.0197	913.3393
NaturalGas Mitigated	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.6778	303.6778	5.8200e-003	5.5700e-003	305.4824
NaturalGas Unmitigated	0.0307	0.2790	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.6778	303.6778	5.8200e-003	5.5700e-003	305.4824

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					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	4.28208e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5081	228.5081	4.3800e-003	4.1900e-003	229.8660
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	370080	2.0000e-003	0.0181	0.0152	1.1000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	19.7489	19.7489	3.8000e-004	3.6000e-004	19.8663
Strip Mall	8300	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4429	0.4429	1.0000e-005	1.0000e-005	0.4456
Total		**0.0307**	**0.2790**	**0.2343**	**1.6700e-003**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**303.6778**	**303.6778**	**5.8200e-003**	**5.5700e-003**	**305.4824**

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	tons/yr										MT/yr					
Discount Club	245680	1.3200e-003	0.0120	0.0101	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1104	13.1104	2.5000e-004	2.4000e-004	13.1883
Gasoline/Service Station	57797	3.1000e-004	2.8300e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0843	3.0843	6.0000e-005	6.0000e-005	3.1026
General Light Industry	726769	3.9200e-003	0.0356	0.0299	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7832	38.7832	7.4000e-004	7.1000e-004	39.0136
Hotel	4.28208e+006	0.0231	0.2099	0.1763	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.5081	228.5081	4.3800e-003	4.1900e-003	229.8660
Other Non-Asphalt Surfaces	0	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
Parking Lot	0	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
Strip Mall	370080	2.0000e-003	0.0181	0.0152	1.1000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	19.7489	19.7489	3.8000e-004	3.6000e-004	19.8663

Strip Mall	8300	4.0000e-005	4.1000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4429	0.4429	1.0000e-005	1.0000e-005	0.4456
Total		**0.0307**	**0.2790**	**0.2343**	**1.6700e-003**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**303.6778**	**303.6778**	**5.8200e-003**	**5.5700e-003**	**305.4824**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	4.00044e+006	500.8936	0.0526	0.0109	505.4537
Gasoline/Service Station	19482.2	2.4394	2.6000e-004	5.0000e-005	2.4616
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	832920	104.2896	0.0110	2.2700e-003	105.2390
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.0444	1.4800e-003	3.1000e-004	14.1723
Parking Lot	114345	14.3171	1.5000e-003	3.1000e-004	14.4474
Parking Lot	34412.4	4.3088	4.5000e-004	9.0000e-005	4.3480
Strip Mall	1.84594e+006	231.1299	0.0243	5.0200e-003	233.2340
Strip Mall	41400	5.1837	5.4000e-004	1.1000e-004	5.2309
Total		**905.0995**	**0.0951**	**0.0197**	**913.3393**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Discount Club	4.00044e+006	500.8936	0.0526	0.0109	505.4537
Gasoline/Service Station	19482.2	2.4394	2.6000e-004	5.0000e-005	2.4616
General Light Industry	227563	28.4931	2.9900e-003	6.2000e-004	28.7525
Hotel	832920	104.2896	0.0110	2.2700e-003	105.2390
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112167	14.0444	1.4800e-003	3.1000e-004	14.1723
Parking Lot	114345	14.3171	1.5000e-003	3.1000e-004	14.4474
Parking Lot	34412.4	4.3088	4.5000e-004	9.0000e-005	4.3480
Strip Mall	1.84594e+006	231.1299	0.0243	5.0200e-003	233.2340
Strip Mall	41400	5.1837	5.4000e-004	1.1000e-004	5.2309
Total		**905.0995**	**0.0951**	**0.0197**	**913.3393**

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	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Unmitigated	1.9897	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

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	0.3092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**1.9897**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

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	0.3092					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.2700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	**1.9897**	**6.0000e-005**	**6.2700e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0123**	**0.0123**	**3.0000e-005**	**0.0000**	**0.0131**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

Mitigated	38.0972	1.0906	0.0263	73.1937
Unmitigated	38.0972	1.0906	0.0263	73.1937

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Discount Club	4 / 0	3.9791	0.1306	3.1400e-003	8.1794
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	21.3307	0.5519	0.0133	39.1015
Total		**38.0972**	**1.0906**	**0.0263**	**73.1937**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Discount Club	4 / 0	3.9791	0.1306	3.1400e-003	8.1794
Gasoline/Service Station	0.265638 / 0.16281	0.3356	8.6800e-003	2.1000e-004	0.6152
General Light Industry	6.37094 / 0	6.3376	0.2081	5.0000e-003	13.0275
Hotel	5.85972 / 0.65108	6.1144	0.1914	4.6000e-003	12.2701
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.8841 / 10.3483	21.3307	0.5519	0.0133	39.1015
Total		**38.0972**	**1.0906**	**0.0263**	**73.1937**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	212.5823	12.5633	0.0000	526.6636
Unmitigated	212.5823	12.5633	0.0000	526.6636

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**212.5823**	**12.5633**	**0.0000**	**526.6636**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Discount Club	636.5	129.2038	7.6357	0.0000	320.0968
Gasoline/Service Station	10.78	2.1882	0.1293	0.0000	5.4213
General Light Industry	34.16	6.9342	0.4098	0.0000	17.1791
Hotel	126.47	25.6723	1.5172	0.0000	63.6020
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	239.34	48.5839	2.8712	0.0000	120.3645
Total		**212.5823**	**12.5633**	**0.0000**	**526.6636**

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

Generator Emissions

Costco Emergency Generator GHG Emissions

Conversion Factors	
HP/kW	1.3
CO2 kg/gal[1]	10.26
CH4 g/gal[2]	0.58
N2O g/gal[2]	0.26
GWP CH4[3]	25.0
GWP N2O[3]	298.0
CO2e g/gal	10352.0
CO2 g/gal	10260.0
CO2/CO2e[4]	99.11%
g/lb	453.6

Generator Rating:	1,000	kW
	1,341	HP
Load Factor[5]:	0.74	
Engine Emissions Tier:	Rule 1470 Compliant	
Operating Hours per Unit[6]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

	Greenhouse Gases [4]	
Units	**CO_2**	**CO_2e**
g/kW-hr	—	—
g/HP-hr[7]	521.64	526.32
lbs/hr	1141.21	1,151.44
lbs/day	2,282.42	2,302.88
lbs/yr	57,060.44	57,571.98
tons/yr	**28.53**	**28.79**
metric tons/yr	**25.88**	**26.11**

1 Climate Registry, Table 12.1, https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf
2 Climate Registry, Table 13.7 (Other Large Utility): https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf
3 IPCC AR4 GWP, https://www.arb.ca.gov/cc/inventory/background/gwp.htm
4 Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced above.
5 Load Factor based on CalEEMod Generator Set Load Factor
6 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3
7 Emission factor for CO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.3, Table 3.3-1.

Hotel Emergency Generator GHG Emissions

Conversion Factors	
HP/kW	1.3
CO2 kg/gal[1]	10.26
CH4 g/gal[2]	0.58
N2O g/gal[2]	0.26
GWP CH4[3]	25.0
GWP N2O[3]	298.0
CO2e g/gal	10352.0
CO2 g/gal	10260.0
CO2/CO2e[4]	99.11%
g/lb	453.6

Generator Rating:	1,000	kW
	1,341	HP
Load Factor[5]:	0.74	
Engine Emissions Tier:	Rule 1470 Compliant	
Operating Hours per Unit[6]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

	Greenhouse Gases [4]	
Units	**CO_2**	**CO_2e**
g/kW-hr	—	—
g/HP-hr[7]	521.64	526.32
lbs/hr	1141.21	1,151.44
lbs/day	2,282.42	2,302.88
lbs/yr	57,060.44	57,571.98
tons/yr	**28.53**	**28.79**
metric tons/yr	**25.88**	**26.11**

1 Climate Registry, Table 12.1, https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf
2 Climate Registry, Table 13.7 (Other Large Utility): https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf
3 IPCC AR4 GWP, https://www.arb.ca.gov/cc/inventory/background/gwp.htm
4 Emissions of GHGs assume 99.11% of the CO2e emissions occur as CO2, based on Climate Registry emission factors as referenced above.
5 Load Factor based on CalEEMod Generator Set Load Factor
6 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3
7 Emission factor for CO2: U.S. Environmental Protection Agency, AP-42 Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.3, Table 3.3-1.

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Vehicle Emissions

Light-Duty Vehicle Idling GHG Emissions at Gas Station

MT/g	CO_2	CH_4	N_2O
1.00000E-06	GWP[1]		
	1	25	298

Year	CO_2	CH_4	N_2O
	g/min		
2021	61.0082	0.0020	0.0009
2031	46.5566	0.0007	0.0005

Light-Duty Vehicle Idling Fuel Consumption at Gas Station

Phase	Year	Trips per Day (In/Out)	# of Cars Idling per Day	Idling Duration (min)	Days/yr	CO_2	CH_4	N_2O	$MTCO_2e/yr$
						MT/yr			
Phase 1	2021	3371	1686	10	365	375.35	0.01	0.01	377
Full Buildout	2031	3371	1686	10	365	286.44	0.00	0.00	287

Notes:

1 Global Warming Potentials (GWP) based on IPCC AR4, https://www.arb.ca.gov/cc/inventory/background/gwp.htm

HHDT Idling GHG Emissions

MT/g	CO_2	CH_4	N_2O
0.000001	GWP[1]		
	1	25	298

MY AGG	CO_2	CH_4	N_2O
Year	g/min[2,3]		
2021	101.7912	0.0018	0.0720
2031	84.0896	0.0018	0.0602

MY 2016	CO2	CH4	N2O
Year	g/min[2,3]		
2021	95.9612	0.0018	0.1076
2031	95.9612	0.0018	0.0682

Phase 1 HHDT Idling GHG Emissions[4]

Source	Year	# of Trucks per Day	Idling Minutes	Days per year	CO_2	CH_4	N_2O	$MTCO_2e/yr$
					MT/yr			
Costco	2021	10	15	365	5.25	1.00E-04	5.89E-03	7.01
Gas Station	2021	8	15	365	4.20	8.03E-05	4.71E-03	5.61
Phase 1 - Retail/Hotel	2021	30	15	365	16.65	3.02E-04	1.18E-02	20.16
							Phase 1 Total	**32.79**

Full Buildout HHDT Idling GHG Emissions

Source	Year	# of Trucks per Day	Idling Minutes	Days/year	CO_2	CH_4	N_2O	$MTCO_2e/yr$
					MT/yr			
Costco	2031	10	15	365	5.25	1.00E-04	3.73E-03	6.37
Gas Station	2031	8	15	365	4.20	8.03E-05	2.99E-03	5.09
Phase 1 - Retail/Hotel	2031	30	15	365	13.75	2.98E-04	9.85E-03	16.70
Phase 2- Trucks	2031	102	15	365	46.96	1.02E-03	3.36E-02	57.01
							Full Buildout Total	**85.17**

Notes:

1 Global Warming Potentials (GWP) based on IPCC AR4, https://www.arb.ca.gov/cc/inventory/background/gwp.htm
2 CO2 and CH4 values from EMFAC2017 desktop version
3 N2O value from EMFAC2017 Web Database
4 Costco truck fleet emission factors are based on an average truck model year of 2016. Non-costco trucks emission factors are based on an aggregate truck model year.

HHDT Running GHG Emissions

MT/g	CO_2	CH_4	N_2O
0.000001	GWP[1]		
	1	25	298

MY AGG	CO_2	CH_4	N_2O
Year	g/mi		
2021	1522.743	0.006	0.239
2031	1177.268	0.001	0.185

MY 2016	CO_2	CH_4	N_2O
Year	g/mi		
2021	1353.843	0.001	0.213
2031	1388.080	0.001	0.218

Phase 1 HHDT Running GHG Emissions[2]

Source	Year	# of Trucks per Day	Total Truck Trips per Day (In/Out)	Trip Length (mi)	Days/year	CO_2	CH_4	N_2O	$MTCO_2e/yr$
						MT/yr			
Costco	2021	10	20	24.5	365	242.13	0.00	0.04	253.48
Gas Station	2021	8	16	30.0	365	237.19	0.00	0.04	248.31
Phase 1 - Retail/Hotel	2021	30	60	7.3	365	242.42	0.00	0.04	253.80
								Phase 1 Total	**755.59**

Full Buildout HHDT Running GHG Emissions

Source	Year	# of Trucks per Day	Total Truck Trips per Day (In/Out)	Trip Length (mi)	Days/year	CO_2	CH_4	N_2O	$MTCO_2e/yr$
						MT/yr			
Costco	2031	10	20	24.5	365	248.26	0.00	0.04	259.89
Gas Station	2031	8	16	30.0	365	243.19	0.00	0.03	252.86
Phase 1 - Retail/Hotel	2031	30	60	7.3	365	187.42	0.00	0.03	196.20
Phase 2- Trucks	2031	102	204	7.3	365	639.91	0.00	0.10	669.90
								Full Buildout Total	**1378.86**

Notes:

1 Global Warming Potentials (GWP) based on IPCC AR4, https://www.arb.ca.gov/cc/inventory/background/gwp.htm

2 Costco truck fleet emission factors are based on an average truck model year of 2016. Non-costco trucks emission factors are based on an aggregate truck model year.

Transportation Refrigeration Unit Emissions

TRU Operation

TRU Fuel Consumption

Source	Input
Costco	
Daily Trucks[1]	10
Trucks per Hour	1
Percent box trucks with TRUs[1]	75%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	5,475
Phase 1 - Retail/Hotel	
Daily one-way trips	60
Daily Trucks	30
Trucks per Hour	3
Percent semi trucks with TRUs[1]	25%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	5,452
Phase 2 - Onsite Businesses	
Daily one-way trips	204
Daily Trucks	102
Trucks per Hour	10
Percent semi trucks with TRUs[1]	25%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	18,615

Parameters for TRU Trucks	
TRU horsepower[2]	34
TRU load factor	0.46

MT/g
0.000001

Phase 1 TRU Diesel Consumption

Source	Year	Annual Hours of TRU Operation	CO_2 (g/hr)[2]	$MTCO_2$
Costco	2021	5,475	19,715	107.94
Phase 1 - Retail/Hotel	2021	5,452	19,715	107.49
			Phase 1 Total	**215.43**

Full Buildout TRU Diesel Consumption

Source	Year	Annual Hours of TRU Operation	CO_2 (g/hr)[2]	$MTCO_2$
Costco	2031	5,475	19,715	107.94
Phase 1 - Retail/Hotel	2031	5,452	19,715	107.49
Phase 2 - Onsite Businesses	2031	18,615	19,715	366.99
			Full Buildout Total	**582.42**

Notes:

1 Johnson Drive HRA Assumptions

2 NREL, Emissions of Transport Refrigeration Units with CARB Diesel, Gas-to-Liquid Diesel, and Emissions Control Devices, p.5. Accessed February 2019.

Operations Emissions Summary

Operations GHG Summary	Phase 1 (2021)	Full Buildout (2031)
Source	**$MTCO_2e/yr$**	
Area	0.00804	0.0131
Electricity	677	913
Natural Gas	247	305
Light-Duty Vehicles (Running)	9,368	12,209
Light-Duty Vehicles (Idling at Gas Station)	377	287
Heavy Duty Trucks (Running)	756	1,379
Heavy Duty Trucks (Idling)	33	85
TRUs	215	582
Costco Generator	26	26
Hotel Generator	26	26
Waste	392	527
Water	22	73
Construction (Amortized over 30 years)	42	77
Project Subtotal	**12,181**	**16,491**
Reductions from EV Charging Stations	136	92
Project Total	**12,045**	**16,399**
Mitigation Reductions		
MM-GHG-1: Costco Solar PV System	150	141
Total Project Emissions After Mitigation	11,895	16,258

APPENDIX C.4: ENERGY ANALYSIS

Construction Energy Consumption
Transportation Fuel Consumption

Operational Energy Consumption
Electricity and Natural Gas Consumption
Transportation Fuel Consumption

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Construction Energy Consumption

Transportation Fuel Consumption

Annual Fuel Consumption Summary

Category	Phase 1 (2020)	Phase 2 (2030)
Diesel fuel for heavy-duty construction equipment	86,786	66,868
Diesel fuel for haul/Vendor trucks	27,559	21,196
Gasoline fuel for workers	19,813	14,799
Total Diesel Consumption	114,345	88,064
Total Gasoline Consumption	19,813	14,799
Construction Phase Duration (years)	1	1
Annual Average Gallons Diesel	**114,345**	**88,064**
Annual Average Gallons Gasoline	**19,813**	**14,799**

	Diesel	Gas	Diesel	Gas
Source	**Phase 1**		**Phase 2**	
Off-Road Equipment	86,786	-	66,868	-
Haul/Vendor	27,559	-	21,196	-
Worker	-	19,813		14,799
Total	**114,345**	**19,813**	**88,064**	**14,799**
Alameda County[1]	113,725,490	583,000,000	113,725,490	583,000,000
Project % of Alameda County	0.10%	0.003%	0.08%	0.003%
California	3,798,039,216	15,584,000,000	3,798,039,216	15,584,000,000
Project % of California	0.003%	0.0001%	0.002%	0.0001%

1. California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2017
https://www.energy.ca.gov/almanac/transportation_data/gasoline/2010-2017_A15_Results.xlsx
Diesel is adjusted to account for retail (51%) and non-retail (49%) diesel sales.

Off-Road Equipment

Equipment ≤ 100 HP

Parameter	Phase 1 (2020)	Phase 2 (2030)
pounds diesel fuel/hp-hr (lb/hp-hr):[1]	0.41	0.41
diesel fuel density (lb/gal):[1]	7.11	7.11
diesel gallons/hp-hr (gal/hp-hr):	0.06	0.06
Total hp-hr :	587,502.24	702,168.40
Total diesel consumption (gal):	33,718.43	40,299.44

Equipment > 100 HP

Parameter	Value	Value
pounds diesel fuel/hp-hr (lb/hp-hr):[1]	0.37	0.37
diesel fuel density (lb/gal):[1]	7.11	7.11
diesel gallons/hp-hr (gal/hp-hr):	0.05	0.05
Total hp-hr:	1,027,940.88	514,647.12
Total diesel gallons:	53,067.89	26,568.88

Total diesel gallons (off-road equipment):	**86,786.31**	**66,868.32**

1. 2017 Off-road Diesel Emission Factors, cells B30 and B31

Phase	Equipment	# of Equipment	Hours/ Day	HP	Load Factor	Days	Total hp-hr
Phase 1A-Grading/Excavation	Graders	1	8	187	0.41	30	18,401
Phase 1A-Grading/Excavation	Rubber Tired Dozers	1	8	247	0.40	30	23,712
Phase 1A-Grading/Excavation	Scrapers	6	8	367	0.48	30	253,670
Phase 1A-Grading/Excavation	Off-Highway Trucks	1	8	402	0.38	30	36,662
Phase 1A-Grading/Excavation	Tractors/Loaders/Backhoes	1	8	97	0.37	30	8,614
Phase 1A-Drainage/Utilities/Sub-Grade	Dumpers/Tenders	1	8	16	0.38	7	340
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Tractors	3	8	124	0.44	7	9,166
Phase 1A-Drainage/Utilities/Sub-Grade	Off-Highway Trucks	2	8	402	0.38	7	17,109
Phase 1A-Drainage/Utilities/Sub-Grade	Rollers	3	8	80	0.38	7	5,107
Phase 1A-Drainage/Utilities/Sub-Grade	Skid Steer Loaders	2	8	65	0.37	7	2,694
Phase 1A-Foundations/Concrete Pour	Cement and Mortar Mixers	60	8	9	0.56	15	36,288
Phase 1A-Foundations/Concrete Pour	Forklifts	3	8	89	0.20	15	6,408
Phase 1A-Foundations/Concrete Pour	Generator Sets	1	8	84	0.74	15	7,459
Phase 1A-Foundations/Concrete Pour	Pumps	1	8	84	0.74	15	7,459
Phase 1A-Building Construction	Graders	2	8	187	0.41	60	73,603
Phase 1A-Building Construction	Off-Highway Tractors	10	8	124	0.44	60	261,888
Phase 1A-Building Construction	Generator Sets	1	8	84	0.74	60	29,837
Phase 1A-Building Construction	Welders	1	8	46	0.45	60	9,936

Phase	Equipment	# of Equipment	Hours/ Day	HP	Load Factor	Days	Total hp-hr
Phase 1A-Architectural Coatings	Air Compressors	1	8	78	0.48	50	14,976
Phase 1A-Paving	Off-Highway Tractors	3	8	124	0.44	7	9,166
Phase 1A-Paving	Off-Highway Trucks	3	8	402	0.38	7	25,664
Phase 1A-Paving	Paving Equipment	2	8	132	0.36	7	5,322
Phase 1A-Paving	Rollers	3	8	80	0.38	7	5,107
Phase 1A-Paving	Skid Steer Loaders	1	8	65	0.37	7	1,347
Phase 1B-Grading/Excavation	Excavators	1	8	158	0.38	51	24,496
Phase 1B-Grading/Excavation	Graders	1	8	187	0.41	51	31,281
Phase 1B-Grading/Excavation	Rubber Tired Dozers	1	8	247	0.40	51	40,310
Phase 1B-Grading/Excavation	Off-Highway Trucks	1	8	402	0.38	51	62,326
Phase 1B-Grading/Excavation	Tractors/Loaders/Backhoes	3	8	97	0.37	51	43,929
Phase 1B-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8	247	0.40	11	26,083
Phase 1B-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8	97	0.37	11	12,633
Phase 1B-Foundations/Concrete Pour	Cranes	1	8	231	0.29	22	11,790
Phase 1B-Foundations/Concrete Pour	Forklifts	3	8	89	0.20	22	9,398
Phase 1B-Foundations/Concrete Pour	Generator Sets	1	8	84	0.74	22	10,940
Phase 1B-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8	97	0.37	22	18,950
Phase 1B-Foundations/Concrete Pour	Pumps	1	8	84	0.74	22	10,940
Phase 1B-Building Construction	Cranes	1	8	231	0.29	148	79,316
Phase 1B-Building Construction	Forklifts	4	8	89	0.20	148	84,301
Phase 1B-Building Construction	Generator Sets	1	8	84	0.74	148	73,597
Phase 1B-Building Construction	Tractors/Loaders/Backhoes	3	8	97	0.37	148	127,481
Phase 1B-Building Construction	Welders	2	8	46	0.45	148	49,018
Phase 1B-Architectural Coatings	Air Compressors	1	8	78	0.48	18	5,391
Phase 1B-Paving	Pavers	2	8	130	0.42	11	9,610
Phase 1B-Paving	Paving Equipment	2	8	132	0.36	11	8,364
Phase 1B-Paving	Rollers	2	8	80	0.38	11	5,350
Phase 2-Demolition	Concrete/Industrial Saws	1	8	81	0.73	20	9,461
Phase 2-Demolition	Crushing/Proc. Equipment	2	8	85	0.78	20	21,216
Phase 2-Demolition	Excavators	3	8	158	0.38	20	28,819
Phase 2-Demolition	Generator Sets	2	8	84	0.74	20	19,891
Phase 2-Demolition	Rubber Tired Dozers	2	8	247	0.40	20	31,616
Phase 2-Grading/Excavation	Excavators	2	8	158	0.38	20	19,213
Phase 2-Grading/Excavation	Graders	2	8	187	0.41	20	24,534
Phase 2-Grading/Excavation	Rubber Tired Dozers	1	8	247	0.40	20	15,808
Phase 2-Grading/Excavation	Scrapers	6	8	367	0.48	20	169,114
Phase 2-Grading/Excavation	Off-Highway Trucks	2	8	402	0.38	20	48,883
Phase 2-Grading/Excavation	Tractors/Loaders/Backhoes	2	8	97	0.37	20	11,485
Phase 2-Drainage/Utilities/Sub-Grade	Rubber Tired Dozers	3	8	247	0.40	25	59,280
Phase 2-Drainage/Utilities/Sub-Grade	Tractors/Loaders/Backhoes	4	8	97	0.37	25	28,712

Phase	Equipment	# of Equipment	Hours/ Day	HP	Load Factor	Days	Total hp-hr
Phase 2-Foundations/Concrete Pour	Cranes	1	8	231	0.29	15	8,039
Phase 2-Foundations/Concrete Pour	Forklifts	3	8	89	0.20	15	6,408
Phase 2-Foundations/Concrete Pour	Generator Sets	1	8	84	0.74	15	7,459
Phase 2-Foundations/Concrete Pour	Tractors/Loaders/Backhoes	3	8	97	0.37	15	12,920
Phase 2-Foundations/Concrete Pour	Pumps	1	8	84	0.74	15	7,459
Phase 2-Building Construction	Cranes	1	8	231	0.29	140	75,029
Phase 2-Building Construction	Crushing/Proc. Equipment	2	8	85	0.78	140	148,512
Phase 2-Building Construction	Forklifts	3	8	89	0.20	140	59,808
Phase 2-Building Construction	Generator Sets	3	8	84	0.74	140	208,858
Phase 2-Building Construction	Tractors/Loaders/Backhoes	3	8	97	0.37	140	120,590
Phase 2-Building Construction	Welders	1	8	46	0.45	140	23,184
Phase 2-Architectural Coatings	Air Compressors	1	8	78	0.48	20	5,990
Phase 2-Paving	Pavers	2	8	130	0.42	21	18,346
Phase 2-Paving	Paving Equipment	2	8	132	0.36	21	15,967
Phase 2-Paving	Rollers	2	8	80	0.38	21	10,214

Phase 1	**Total ≤ 100**	587,502
	Total >100	1,027,941
Phase 2	**Total ≤ 100**	702,168
	Total >100	514,647

On-Road Haul/Vendor Trucks

Parameter	Phase 1 (2020)	Phase 2 (2030)
EMFAC2017 Diesel Fuel Consumption Factor (gal/mile):[1]	0.18	0.16
Total Haul Truck VMT (miles):	155,600	133,160
Total VMT diesel gallons (on-road haul trucks):	**27,243.51**	**20,926.49**
HHDT Idling Fuel Consumption Factor (gal/min):[2]	0.015	0.015
Total Haul Truck Idle-Minutes per Year (minutes):	58,350	49,935
Total Idling diesel gallons (on-road haul trucks)[3]:	**315.09**	**269.65**
Total diesel gallons (on-road haul trucks):	**27,559**	**21,196**

Without ATCM		Gallons Saved	
875.25	749.025	560.16	479.38
		Total Savings	**1,040**

1. California Air Resources Board, EMFAC2014 (BAAQMD; Annual; CY 2020,2030; Aggregate MY; Aggregate Speed,DSL)
2. 1. Idle Fuel Consumption for Selected Gasoline and Diesel Vehicles, US Department of Energy. Accessed February 2019. https://www.energy.gov/eere/vehicles/fact-861-february-23-2015-idle-fuel-consumption-selected-gasoline-and-diesel-vehicles
3. Incorporates estimated fuel savings from Anit-Idling Regulation (64 percent based on estimated CARB emissions reductions)
   Source: California Air Resources Board (CARB), 2004. Staff Report: Initial Statement of Reasons for Proposed Rulemaking, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling, Appendix F, July 2004, https://www.arb.ca.gov/regact/idling/isorappf.pdf.

Phase	Total One-Way Trips	Miles/Trip	VMT	Idle Minutes
Phase 1A-Grading/Excavation	800	20	16,000	6,000
Phase 1A-Drainage/Utilities/Sub-Grade	0	20	0	0
Phase 1A-Foundations/Concrete Pour	1,200	20	24,000	9,000
Phase 1A-Building Construction	2,100	20	42,000	15,750
Phase 1A-Architectural Coatings	0	20	0	0
Phase 1A-Paving	14	20	280	105
Phase 1B-Grading/Excavation	680	20	13,600	5,100
Phase 1B-Drainage/Utilities/Sub-Grade	0	20	0	0
Phase 1B-Foundations/Concrete Pour	1,020	20	20,400	7,650
Phase 1B-Building Construction	1,944	20	38,880	14,580
Phase 1B-Architectural Coatings	0	20	0	0
Phase 1B-Paving	22	20	440	165
Phase 2-Demolition	764	20	15,280	5,730
Phase 2-Grading/Excavation	1,036	20	20,720	7,770
Phase 2-Drainage/Utilities/Sub-Grade	0	20	0	0
Phase 2-Foundations/Concrete Pour	1,652	20	33,040	12,390
Phase 2-Building Construction	3,164	20	63,280	23,730
Phase 2-Architectural Coatings	0	20	0	0
Phase 2-Paving	42	20	840	315

Phase 1 Total Haul Truck VMT:	155,600
Phase 2 Total Haul Truck VMT:	133,160
Phase 1 Total Idle Minutes:	58,350
Phase 2 Total Idle-Minutes:	49,935

On-Road Workers (LDA, LDT1, LDT2)

Parameter	Phase 1 (2020)	Phase 2 (2030)
EMFAC2017 Gasoline Fuel Consumption Factor (gal/mile):[1]	0.039	0.028
Total Worker VMT (miles):	511,855	519,329
Total VMT gasoline gallons (workers):	**19,813**	**14,799**

1. California Air Resources Board, EMFAC2014 (BAAQMD; LDA, LDT1, LDT2; CY 2020,2030; Aggregate MY; Aggregate Speed,GAS)

Phase	Days	One-Way Trips/Day	Miles/Trip	VMT
Phase 1A-Grading/Excavation	30	26	10.8	8,424
Phase 1A-Drainage/Utilities/Sub-Grade	7	28	10.8	2,117
Phase 1A-Foundations/Concrete Pour	15	164	10.8	26,568
Phase 1A-Building Construction	60	300	10.8	194,400
Phase 1A-Architectural Coatings	50	60	10.8	32,400
Phase 1A-Paving	7	30	10.8	2,268
Phase 1B-Grading/Excavation	51	18	10.8	9,914
Phase 1B-Drainage/Utilities/Sub-Grade	11	18	10.8	2,138
Phase 1B-Foundations/Concrete Pour	22	24	10.8	5,702
Phase 1B-Building Construction	148	138	10.8	220,579
Phase 1B-Architectural Coatings	18	28	10.8	5,443
Phase 1B-Paving	11	16	10.8	1,901
Phase 2-Demolition	20	26	10.8	5,616
Phase 2-Grading/Excavation	20	36	10.8	7,776
Phase 2-Drainage/Utilities/Sub-Grade	25	18	10.8	4,860
Phase 2-Foundations/Concrete Pour	15	36	10.8	5,832
Phase 2-Building Construction	140	316	10.8	477,792
Phase 2-Architectural Coatings	20	64	10.8	13,824
Phase 2-Paving	21	16	10.8	3,629
			Phase 1 Worker VMT	511,855
			Phase 2 Worker VMT	519,329

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Operational Energy Consumption

Electricity and Natural Gas Consumption

Operational Energy Analysis - Phase 1 (2021)

Electricity[4]	kWh/yr	GWh/yr
Discount Club	4000440.00	4.00
Gasoline/Service Station	19482.20	0.02
Hotel	832920.00	0.83
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	112167.00	0.11
Parking Lot	34412.40	0.03
Strip Mall	41400.00	0.04
Total	**5,040,822**	**5.041**
Total (including water, see below)	**5,191,040**	**5.191**
Existing Energy Consumption		
Net Project Energy Consumption	**5,191,040**	**5.191**

Electricity	GWh/yr
PG&E 2017 Annual Sold Electricity	82,226
Alameda County Consumption[2]	11,112
Project Annual	5.19
Existing Annual	-
Net Project Annual	5.19
Percent Net Project of PG&E	0.006%
Perncent of Alameda County	0.05%

Water[4]	Mgal/yr
Discount Club	4.000
Gasoline/Service Station	0.428
Hotel	6.511
Other Non-Asphalt Surfaces	-
Parking Lot	-
Strip Mall	0.597
Total	**11.537**
Electricity Intensity Factors	**kWh/Mgal**
Electricity Factor - Supply	9,727
Electricity Factor - Treat	111
Electricity Factor - Distribute	1,272
Electricity Factor - Wastewater Treatment	1,911

Electricity from Water Demand	kWh/yr	GWh/yr
Total	**150,218**	**0.150**

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Natural Gas[4]	kBtu/yr	cubic foot (cf)[3]	Per day U
Discount Club	245,680	236,914	
Gasoline/Service Station	57,797	55,735	
Hotel	4,282,080	4,129,296	
Other Non-Asphalt Surfaces	0	-	
Parking Lot	0	-	
Strip Mall	8,300	8,004	
Project Total	**4,593,857**	**4,429,949**	12,137
Existing Total			
Project Net Total	**4,593,857**	**4,429,949**	**12,137**

Natural Gas	million cubic foot (cf)
PG&E's 2017 Sold Natural Gas[1]	234,181
Alameda County Consumption[2]	36,551
Project Annual	4.4
Existing Annual	
Net Project Annual	4.4
Percent Net Project of SoCalGas	0.002%
Perncent of Alameda County	0.01%

1) PG&E, 2017 Join Annual Report to Stakeholders, p.19, Available at: http://s1.q4cdn.com/880135780/files/doc_financials/2017/annual/2017-Annual-Report-Final.pdf

2) California Energy Commission, California Energy Consumption Dateabase, 2017 Electricity and Natural Gas Consumption by County. http://ecdms.energy.ca.gov/. Accessed March 2019.

3) Conversion factor of 1,037 Btu per cubic foot based on United States Energy Information Administration data https://www.eia.gov/tools/faqs/faq.php?id=45&t=8

4) Values from CalEEMod Output file for Phase 1 Operations

Operational Energy Analysis - Full Buildout (2031)

Electricity	kWh/yr	GWh/yr
Discount Club	4000440.00	4.00
Gasoline/Service Station	19482.20	0.02
Hotel	832920.00	0.83
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	112167.00	0.11
Parking Lot	114345.00	0.11
Parking Lot	34412.40	0.03
	1845940.00	1.85
Total	**6,959,707**	**6.960**
Total (including water, see below)	**7,456,740**	**7.457**
Existing Energy Consumption		
Net Project Energy Consumption	**7,456,740**	**7.457**

Electricity	GWh/yr
PG&E 2017 Annual Sold Electricity	82,226
Alameda County Consumption[2]	11,112
Project Annual	7.46
Existing Annual	-
Net Project Annual	7.46
Percent Net Project of PG&E	0.009%
Perncent of Alameda County	0.07%

Water	Mgal/yr
Discount Club	4.000
Gasoline/Service Station	0.428
Hotel	6.511
Other Non-Asphalt Surfaces	-
Parking Lot	-
Strip Mall	27.232
	-
Total	**38.172**
Electricity Intensity Factors	**kWh/Mgal**
Electricity Factor - Supply	9,727
Electricity Factor - Treat	111
Electricity Factor - Distribute	1,272
Electricity Factor - Wastewater Treatment	1,911

Electricity from Water Demand	kWh/yr	GWh/yr
Total	**497,033**	**0.497**

Source: California Air Resources Board, CalEEMod, Version 2016.3.2.

Natural Gas	kBtu/yr	cubic foot (cf)	er day Usag
Discount Club	245,680	236,914	
Gasoline/Service Station	57,797	55,735	
Hotel	4,282,080	4,129,296	
Other Non-Asphalt Surfaces	0	-	
Parking Lot	0	-	
Strip Mall	370,080	356,876	
Strip Mall	8,300	8,004	
Project Total	**4,963,937**	**4,786,824**	#######
Existing Total			
Project Net Total	**4,963,937**	**4,786,824**	**13,115**

Natural Gas	million cubic foot (cf)
PG&E's 2017 Sold Natural Gas[1]	234,181
Alameda County Consumption[2]	36,551
Project Annual	4.79
Existing Annual	
Net Project Annual	4.79
Percent Net Project of PG&E	0.002%
Perncent of Alameda County	0.01%

1) PG&E, 2017 Join Annual Report to Stakeholders, p.19, Available at: http://s1.q4cdn.com/880135780/files/doc_financials/2017/annual/2017-Annual-Report-Final.pdf
2) California Energy Commission, California Energy Consumption Dateabase, 2017 Electricity and Natural Gas Consumption by County. http://ecdms.energy.ca.gov/. Accessed March 201
3) Conversion factor of 1,037 Btu per cubic foot based on United States Energy Information Administration data
https://www.eia.gov/tools/faqs/faq.php?id=45&t=8
4) Values from CalEEMod Output file for Full Buildout Operations

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Transportation Fuel Consumption

Operational Fuel Consumption

Diesel Fuel Consumption Summary	Phase 1 (2021)		Full Buildout (2031)	
Source	**DSL**	**GAS**	**DSL**	**GAS**
Non-HHDT (Running)	37,970	1,099,432	56,939	1,481,589
Light Duty (Idling) @ Gas Station	0	39,991	0	39,991
Delivery Vehicles (HHDT)	79,893	0	151,691	0
TRU	14,533	0	39,291	0
Generators	5,070	0	5,070	0
Total	**137,466**	**1,139,423**	**252,991**	**1,521,580**

Source	Phase 1 (2021)		Full Buildout (2031)	
	Diesel	**Gas**	**Diesel**	**Gas**
Total	**137,466**	**1,139,423**	**252,991**	**1,521,580**
Alameda County[1]	113,725,490	583,000,000	113,725,490	583,000,000
Project % of Alameda County	0.12%	0.20%	0.22%	0.26%
California[1]	3,798,039,216	15,584,000,000	3,798,039,216	15,584,000,000
Project % of California	0.004%	0.0073%	0.007%	0.010%

California Energy Commission, California Retail Fuel Outlet Annual Reporting (CEC-A15) Results, 2017
https://www.energy.ca.gov/almanac/transportation_data/gasoline/2010-2017_A15_Results.xlsx
Diesel is adjusted to account for retail (51%) and non-retail (49%) diesel sales.

TRU Operation

TRU Fuel Consumption

Source	Input
Costco	
Daily Trucks[1]	10
Trucks per Hour	1
Percent box trucks with TRUs[1]	75%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	5,475
Phase 1 - Retail/Hotel	
Daily one-way trips	60
Daily Trucks	30
Trucks per Hour	3
Percent semi trucks with TRUs[1]	25%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	5,452
Phase 2 - Onsite Businesses	
Daily one-way trips	204
Daily Trucks	102
Trucks per Hour	10
Percent semi trucks with TRUs[1]	25%
TRU operation/trip (hrs)[1]	2
Annual hours of TRU operation	18,615

Parameters for TRU Trucks	
TRU horsepower[2]	34
TRU load factor	0.46

TRU Diesel Consumption - Phase 1 (2021)

Source	Year	Annual Hours of TRU Operation	TRU Fuel Factor (gal/hr)[3]	Annual Diesel Consumption (gal/year)
Costco	2021	5,475	1.33E+00	7,281.75
Phase 1 - Retail/Hotel	2021	5,452	1.33E+00	7,251.21
			Total	**14,533**

Full Buildout TRU Diesel Consumption

Source	Year	Annual Hours of TRU Operation	TRU Fuel Factor (gal/hr)[3]	Annual Diesel Consumption (gal/year)
Costco	2031	5,475	1.33E+00	7,281.75
Phase 1 - Retail/Hotel	2031	5,452	1.33E+00	7,251.21
Phase 2 - Onsite Businesses	2031	18,615	1.33E+00	24,757.95
			Total	**39,291**

Notes:

1 Johnson Drive HRA Assumptions

2 ARB 2011 Staff Report: Amendments for the ATCM for TRUs, table III-1: https://www.arb.ca.gov/regact/2011/tru2011/truisor.pdf

3 NREL, Emissions of Transport Refrigeration Units with CARB Diesel, Gas-to-Liquid Diesel, and Emissions Control Devices, p.5. Accessed February 2019. https://www.nrel.gov/docs/fy10osti/46598.pdf

Costco Emergency Generator Fuel Consumption - Phase 1 (2021)

Conversion Factors	
HP/kW	1.3
CO2 kg/gal[1]	10.21
g/lb	453.6

Generator Rating:	1,000	kW
	1,341	HP
Load Factor[2]:	0.74	
Engine Emissions Tier:	Rule 1470 Compliant	
Operating Hours per Unit[3]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

	Greenhouse Gases	
Units	**CO_2**	**CO_2e**
metric tons/yr	**25.88**	**26.12**

Fuel Consumption

Phase	Total CO_2 (MT/yr)	Fuel Type	Fuel Factor ($kgCO_2/gal$)[1]	Gallons
Phase 1/Full Buildout	25.88	Diesel	10.21	2,535

1 Climate Registry, Table 13.1, https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf

2 Load Factor based on CalEEMod Generator Set Load Factor

3 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

Source: ESA 2019.

Hotel Emergency Generator Fuel Consumption - Phase 1 (2021)

Conversion Factors	
HP/kW	1.3
CO2 kg/gal[1]	10.21
g/lb	453.6

Generator Rating:	1,000	kW
	1,341	HP
Load Factor[2]:	0.74	
Engine Emissions Tier:	Rule 1470 Compliant	
Operating Hours per Unit[3]:	2	hours/day
	50	hours/year

Emergency Generator Emissions

	Greenhouse Gases	
Units	**CO_2**	**CO_2e**
metric tons/yr	**25.88**	**26.12**

Fuel Consumption

Phase	Total CO_2 (MT/yr)	Fuel Type	Fuel Factor ($kgCO_2/gal$)[1]	Gallons
Phase 1/Full Buildout	25.88	Diesel	10.21	2,535

1 Climate Registry, Table 13.1, https://www.theclimateregistry.org/wp-content/uploads/2018/06/The-Climate-Registry-2018-Default-Emission-Factor-Document.pdf

2 Load Factor based on CalEEMod Generator Set Load Factor

3 Number of hours permitted for testing and maintenance consistent with BAAQMD Regulation 9-8-330.3

Source: ESA 2019.

Non-Delivery Vehicles (excludes HHDT) Running Fuel Consumption

Phase	Operational Year	Annual VMT (miles)[1]	DSL Fuel Factor (gal/mi)	GAS Fuel Factor (gal/mi)	Fuel Distribution: DSL % of VMT	Fuel Distribution: GAS % of VMT	Annual DSL Consumption (gal/year)	Annual Gas Consumption (gal/year)
Phase 1	2021	26,684,880	0.033	0.043	0.043	0.957	37,970	1,099,432
Full Buildout	2031	46,175,815	0.026	0.034	0.047	0.953	56,939	1,481,589

1. Annual VMT generated from Phase 1 Operations and Full Buildout CalEEMod runs

Light-Duty Vehicle Idling Fuel Consumption at Gas Station

Phase	Year	Trips per Day (In/Out)	# of Cars Idling per Day	Idling Duration (min)	LD Idling Fuel Factor (gal/min)	Days/yr	Annual Gasoline Consumption (gal/year)
Phase 1	2021	3371	1686	10	6.50E-03	365	39,991
Full Buildout	2031	3371	1686	10	6.50E-03	365	39,991

HHDT Running Fuel Consumption - Phase 1 (2021)

Source	Year	# of Trucks per Day	Total Truck Trips per Day (In/Out)	Trip Length (mi)	Running Fuel Factor (gal/mi)[1]	Days/yr	Annual Diesel Consumption (gal/year)
Costco	2021	10	20	24.5	0.143	365	25,590
Gas Station	2021	8	16	30.0	0.143	365	25,068
Phase 1 - Retail/Hotel	2021	30	60	7.3	0.159	365	25,303
						Total	**75,961**

HHDT Running Fuel Consumption - Full Buildout (2031)

Source	Year	# of Trucks per Day	Total Truck Trips per Day (In/Out)	Trip Length (mi)	Running Fuel Factor (gal/mi)	Days/yr	Annual Diesel Consumption (gal/year)
Costco	2031	10	20	24.5	0.149	365	26,628
Gas Station	2031	8	16	30.0	0.149	365	26,085
Phase 1 - Retail/Hotel	2031	30	60	7.3	0.123	365	19,634
Phase 2- Trucks	2031	102	204	7.3	0.123	365	67,036
						Total	**139,383**

1. Costco trucks utilize fuel factor for HHDT with model year 2016. Non-Costco trucks utilize fuel factor for HHDT with an aggregate model year.

HHDT Idling Fuel Consumption - Phase 1 (2021)

Source	Year	# of Trucks per Day	Idling Minutes	Truck Idling Fuel Factor (gal/min)	Days/yr	Annual Diesel Consumption (gal/year)
Costco	2021	10	15	0.0150	365	821
Gas Station	2021	8	15	0.0150	365	657
Phase 1 - Retail/Hotel	2021	30	15	0.0150	365	2,453
					Total	**3,932**

HHDT Idling Fuel Consumption - Full Buildout (2031)

Source	Year	# of Trucks per Day	Idling Minutes	Truck Idling Fuel Factor (gal/min)	Days/yr	Annual Diesel Consumption (gal/year)
Costco	2031	10	15	0.0150	365	821
Gas Station	2031	8	15	0.0150	365	657
Phase 1 - Retail/Hotel	2031	30	15	0.0150	365	2,453
Phase 2- Trucks	2031	102	15	0.0150	365	8,377
					Total	**12,308**

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APPENDIX D

Memorandum: Wait Time for Costco Gasoline Fuel Stations (Kittelson & Associates)

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APPENDIX D

Memorandum: Wait Time for Costco Gasoline Fuel Stations (Kittelson & Associates)

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MEMORANDUM

Date:	September 27, 2019	Project #: 24495
To:	Jenifer Murillo, Costco Wholesale Damon Mamalakis, Armbruster, Goldsmith & Delvac LLP	
From:	Sonia Daleiden, PTOE & Neelam Dorman, TE	
Project:	Pleasanton Costco Development	
Subject:	Wait Time for Costco Gasoline Fuel Stations	

Costco is proposing to develop a Costco Gasoline with 20 fueling positions in Pleasanton, California. This memorandum provides documentation of anticipated member wait times at the Costco Gasoline fuel station based on data collected at other similar facilities in terms of fuel station size and California location. For the purpose of this memorandum, wait time is defined at the duration of time a Costco member waits in line at the Costco Gasoline site to reach a fueling position but does not include the time spent fueling their vehicle.

Table 1 summarizes wait time information for four other Costco Gasoline fuel stations with 20 fueling positions during weekday PM and weekend midday peak hour periods. Table 1 also summarizes wait times and the corresponding number of fuel positions recorded at other Costco Gasoline sites in California.

Table 1. Costco Gasoline Fuel Station Average Member Wait Times

Location	Number of Fueling Positions	Average Member Wait Time*	
		Weekday PM Peak Hour	Weekend Midday Peak Hour
Beaverton, OR	20	3:16	3:31
Clackamas, OR	20	1:29	1:40
Scottsdale, AZ	20	0:37	2:20
Tucson, AZ	20	0:05	0:31
Concord, CA	16	3:01	7:47
Folsom, CA	16	1:37	3:39
Fremont, CA	16	1:53	4:37
Temecula, CA	30	2:01	2:11
Average Wait Time of 20 Fueling Position Sites		*1:21*	*2:00*
Average Wait Time of California Sites		*2:08*	*4:33*

*Wait time is the total time (min:sec) a vehicle waited in queue from the time they pulled up to and stopped at the back of queue to the time they pulled up to the pump

As shown in Table 1, for the 20 fueling position fuel stations where data is available, the average wait time of all 4 locations was 1 minute 21 sections during the weekday PM peak hour and 2 minutes during the weekend midday peak hour. In addition, the four locations in California where data was available also show an average peak hour wait time of 2 minute and 8 seconds during the weekday PM peak hour and 4 minutes and 33 seconds during the weekend midday peak hour.

The average wait times shown in Table 1 reflect data collected during weekday evening commuter and weekend mid-day peak hour time periods when Costco Gasoline fuel station demand peaks. Average wait times throughout the rest of the day are expected to be less than reported in Table 1.

Analysis in the EIR for the Costco development in Pleasanton was based on an average fuel station wait time of 10 minutes. The data in Table 1 documents that the 10-minute wait time assumption is higher than the wait times recorded at other Costco Gasoline fuel stations during the peak periods and thus provides a conservative analysis.

If you have any questions or require additional information, please contact us at sdaleiden@kittelson.com or 208.472.9803.