APPENDIX A

AIR QUALITY AND GREENHOUSE GAS EMISSIONS ANALYSIS

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MEMORANDUM

DATE: December 2, 2019

TO: Christopher Koontz, AICP, Planning Bureau Manager, City of Long Beach

FROM: Michael Slavick, Senior Air Quality Specialist, LSA

SUBJECT: Belmont Plaza Pool Revised Air Quality and Greenhouse Gas Emissions Analysis

This memorandum compares the air quality and global climate change analysis presented in the August 2016 Final EIR to a revised air quality and greenhouse gas (GHG) emissions analysis prepared in November 2019 for the proposed Modified Project. The November 2019 air quality and GHG emissions analysis was prepared with updated existing (2019) conditions and the proposed Modified Project consistent with the South Coast Air Quality Management District's (SCAQMD) *CEQA Air Quality Handbook* (1993, currently being revised).[1] The following memorandum summarizes the Modified Project description and the regulatory setting and provides a quantitative assessment of the potential long-term and short-term air quality and GHG impacts associated with construction and operation of the Modified Project.

PROJECT DESCRIPTION SUMMARY

The Approved Project proposed the development of an approximately 125,500-square-foot (sf) pool complex that included indoor and outdoor pool components and an approximately 1,500 sf outdoor café. The Approved Project also included permanent indoor seating for approximately 1,250 spectators to view competitive events at the 50-Meter Competition Pool and the Dive Pool. Temporary outdoor seating would be provided for larger events at the Outdoor 50-Meter Competition Pool with a maximum temporary seating capacity of up to 3,000 spectators. The Approved Project did not include any permanent outdoor seating designed for spectator viewing. The 2016 certified EIR for the Approved Project found no significant unavoidable impacts would remain after implementation of the specific mitigation measures prescribed in the EIR. The City Council certified the EIR in August 2016, adopted the Mitigation Monitoring and Reporting Program (MMRP), and approved the project.

The currently proposed Modified Project is a less intense pool facility as compared to the previously Approved Project. The Modified Project would remove the roof structure over the 50-Meter Competition Pool, eliminate the café, establish the existing temporary pool east of the project site as a permanent Myrtha pool with the addition of restrooms and a shower facility, relocate a proposed new pool facility further north (away from the shoreline on the site), reduce the size of

[1] South Coast Air Quality Management District (SCAQMD). 1993. *CEQA Air Quality Handbook*, currently being revised to the Air Quality Analysis Guidance Handbook). Website: https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook (accessed November 2019).

the support building, increase permanent indoor seating, and reduce temporary outdoor seating. Access to the site would continue to be provided by Ocean Boulevard via Termino Avenue and Bennett Avenue. Although the Modified Project is substantially smaller in scale than the Approved Project, due to the project changes, additional air quality and GHG analysis and review is required under CEQA.

AIR QUALITY

A brief summary of the air quality impacts from the 2016 EIR is provided below.

2016 EIR

Consistency with Air Quality Plans

The Approved Project was consistent with the goals, objectives, and assumptions of the SCAQMD's *Final 2012 Air Quality Management Plan* (AQMP)[1] and would not have exceeded the SCAQMD's thresholds for short-term impacts, asbestos impacts, and long-term (operational) impacts with the incorporation of short-term construction and long-term construction mitigation measures. Additionally, the Approved Project would be consistent with the development concept and goals, objectives, and policies of the City of Long Beach *General Plan*[2]. Therefore, the Approved Project would not have conflicted or obstructed the implementation of the applicable air quality plan. Impacts were determined to be less than significant, and no mitigation was required.

Air Quality Standard Violation

The 2016 EIR considered construction air quality impacts during an approximate 18-month period anticipated to commence in early 2017. The 2016 EIR determined that fugitive dust emissions from construction activities would result in maximum levels of particulate matter emissions of 10.0 pounds per day (lbs/day) for particulate matter less than 10 microns in size (PM_{10}) and 6.4 lbs/day for particulate matter less than 2.5 microns in size ($PM_{2.5}$), respectively, which are below the SCAQMD's thresholds of 150 lbs/day and 55 lbs/day, respectively. In addition, ozone (O_3) precursor emissions of reactive organic gas (ROG) and nitrogen oxides (NO_X) from construction activities would result in a less than significant impact. Mitigation measures were not required for the 2016 EIR Approved Project.

The 2016 EIR assessed impacts to nearby sensitive receptors through the use of SCAQMD's localized significance thresholds (LST) analysis and concluded, based on the LST results, that ozone precursors and particulate matter emissions would be below the SCAQMD LST thresholds during construction. Therefore, the Approved Project would have resulted in less than significant impacts during construction activities.

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1 SCAQMD. 2013. *Final 2012 Air Quality Management Plan* (AQMP), February 2013.Website: https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan (accessed November 2019).

2 City of Long Beach Development Services. *Long Beach General Plan.* Website: http://www.longbeach.gov/lbds/planning/advance/general-plan/ (accessed November 2019).

The 2016 EIR analyzed long-term air quality impacts from mobile source emissions generated from project-related traffic and from area source emissions generated directly from the pool facility. The 2016 EIR concluded that the Approved Project would not have resulted in exceedances of SCAQMD thresholds for ROG, NO_X, carbon monoxide (CO), sulfur oxides (SO_X), PM_{10}, or $PM_{2.5}$ from mobile or area sources.

Localized operational emissions were also determined to be within SCAQMD thresholds for NO_X, CO, PM_{10}, and $PM_{2.5}$. The quantitative assessment of CO hot spots determined that CO concentrations would be well below the State and federal standards. Therefore, impacts related to localized operational emissions and CO hot spots would have been less than significant. In summary, impacts related to air quality standard violations were determined to be less than significant.

Cumulatively Considerable Net Increase in Criterial Pollutants

The 2016 EIR determined project-related construction activities, in combination with those from other projects in the area, would not substantially deteriorate local air quality with the implementation of Standard Conditions 4.2.1 through 4.2.2 and adherence to applicable SCAQMD rules and regulations. Additionally, project-related operational impacts would not result in a cumulatively considerable net increase in any criterial pollutant with the implementation of Standard Conditions 4.2.1 through 4.2.2 and adherence to applicable SCAQMD rules and regulations. Therefore, cumulative operational impacts associated with proposed operation of the Approved Project were determined to be less than significant; no mitigation was required.

Expose Sensitive Receptors

The 2016 EIR identified locations of sensitive receptors in the vicinity of the project site and determined that project construction and operational emissions would not exceed SCAQMD thresholds or exceed localized significance thresholds. The implementation of Standard Conditions 4.2.1 through 4.2.2 would further reduce project-related emission impacts. As previously mentioned above, the air quality impacts associated with the Approved Project would have been less than significant, and mitigation measures were not required for the Approved Project analyzed in the 2016 EIR.

Nuisance Odors

Potential nuisance odors generated during construction activities were determined to be short term in nature and less than significant given the project size. The Approved Project did not include any land uses identified by SCAQMD as being associated with odors. However, potential airborne odors could result from pool treatments and trash receptacles. These odors would have been confined to the immediate vicinity of the project and minimized by SCAQMD odor regulation and lids on trash receptacles. Therefore, impacts related to short-term and long-term operation odors would be less than significant, and no mitigation was required.

Analysis of the Modified Project

To quantify air quality and GHG emissions, LSA utilized the California Emissions Estimator Model (CalEEMod, Version 2016.3.2)[1] and compared the net change in air quality and GHG emissions between the Approved Project and the Modified Project. CalEEMod model output worksheets are provided as an attachment to this analysis.

Construction Emissions

Construction activities produce combustion emissions from various sources (i.e., construction of pool area improvements and motor vehicle transport of the construction crew). Exhaust emissions from construction activities envisioned on site would vary daily as construction activity levels change. The tentative 18-month construction schedule for the Modified Project is based on a probable start date of May 2021 and a planned completion date of October 2022. The project site is mostly flat in elevation and ready for site preparation and construction. As shown in Table A, below, the Modified Project's regional construction emissions would be less than the SCAQMD thresholds. Specifically, all peak daily construction emissions are lower for the Modified Project as compared to the Approved Project, except for SO_X emissions which remain the same. Therefore, the Modified Project would also not result in a cumulatively considerable increase in emissions due to construction-related emissions.

Table A: Short-Term Regional Construction Emissions

Construction Phase	Total Regional Pollutant Emissions (lbs/day)							
	ROG	NO_X	CO	SO_X	Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$
Approved Project Peak Daily Emissions	**41.0**	**52.0**	**40.0**	**0.1**	**12.0**		**6.4**	
Modified Project								
Site Preparation	4.0	40.6	21.8	0.0	7.2	2.0	3.9	1.9
Grading	2.8	38.4	19.4	0.1	3.7	1.2	1.6	1.1
Building Construction	2.5	21.6	21.5	0.0	1.4	1.0	0.4	0.9
Paving	1.2	11.2	15.1	0.0	0.2	0.6	0.0	0.5
Architectural Coatings	10.4	1.5	2.5	0.0	0.2	0.1	0.1	0.1
Modified Project Peak Daily Emissions	**10.4**	**40.6**	**21.8**	**0.1**	**9.3**		**5.8**	
SCAQMD Thresholds	**75.0**	**100.0**	**550.0**	**150.0**	**150.0**		**55.0**	
Exceed SCAQMD Thresholds?	**No**	**No**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA (November 2019).
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
ROG = reactive organic gas
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides

[1] South Coast Air Quality Management District (SCAQMD). 2017. California Emissions Estimator Model, Version 2016.3.2. Developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with the California Air Districts. November. Website: https://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4 / (accessed November 2019).

Fugitive dust emissions are generally associated with land clearing and site preparation, which will expose the disturbed soils to the air and wind, as well as cut-and-fill grading operations. Dust generated during construction varies substantially on a project-by-project basis, depending on the level of activity, the specific operations, and weather conditions at the time of construction. Similar to the Approved Project, the Modified Project will be required to comply with SCAQMD Rule 403 to control fugitive dust (see Standard Conditions 4.2.1 through 4.2.2, below). Architectural coatings contain ROG that are ozone (O_3) precursors. Application of architectural coatings for the proposed peak construction day is estimated to result in a peak of 10.4 lbs/day of ROG, which is lower than the peak daily ROG emissions for the Approved Project. The ROG emissions associated with the Modified Project would not exceed the SCAQMD ROG threshold of 75.0 lbs/day. Therefore, the Modified Project would result in lower peak daily ROG emissions than the Approved Project, and it would not contribute to new significant construction-related air quality impacts that were not identified in the 2016 EIR.

Operational Emissions

Long-term air pollutant emission impacts are those associated with stationary sources and mobile sources involving any project-related changes. The Modified Project would result in net increases in both area and mobile-source emissions over existing conditions; however, based on trip generation factors provided in the *Belmont Plaza Pool Revised Traffic Analysis* (Revised Traffic Analysis) (LSA, November 2019), prepared for the Modified Project, the Modified Project would generate 900 peak-hour weekend trips, similar to the 900 peak-hour weekend trips identified for the Approved Project. The modeling incorporates project design features such as low flow fixtures and a water-efficient irrigation system. A comparison of the long-term operational emissions associated with the Modified Project and the Approved Project is shown in Table B.

Table B: Opening Year Regional Operational Emissions

Source	Pollutant Emissions (lbs/day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Total Approved Project Peak Daily Emissions	**10.0**	**18.0**	**68.0**	**0.2**	**12.0**	**3.4**
Modified Project						
Area	0.4	<0.1	<0.1	0	<0.1	<0.1
Energy	<0.1	0.1	0.1	<0.1	<0.1	<0.1
Mobile	3.8	18.9	43.4	0.2	12.9	3.5
Total Project Emissions	**4.3**	**19.0**	**43.4**	**0.2**	**12.9**	**3.5**
SCAQMD Thresholds	**55.0**	**55.0**	**550.0**	**150.0**	**150.0**	**55.0**
Exceed SCAQMD Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (November 2019).
CO = carbon monoxide
lbs/day = pounds per day
NO_x = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
ROG = reactive organic gas
SCAQMD = South Coast Air Quality Management District
SO_x = sulfur oxides

The 2016 EIR concluded that operation of the Approved Project would not violate any air quality standard or substantially contribute to an existing or projected air quality violation. As shown in Table B, project-related increases of all criteria pollutants would not exceed the corresponding SCAQMD daily emission thresholds for any criteria pollutants. The Modified Project would result in

lower peak daily emissions of ROGs and CO than the Approved Project. However, emissions of NO_X, PM_{10}, and $PM_{2.5}$ would be slightly higher[1] than with the Approved Project, but would remain below SCAQMD daily emission thresholds and would not contribute to new significant operation-related air quality impacts that were not identified in the 2016 EIR. In addition, the Modified Project would not result in a cumulatively considerable increase in emissions due to operation-related emissions.

Consistency with Air Quality Plans

The AQMP is based on regional growth projections developed by the Southern California Association of Governments (SCAG). The Modified Project is consistent with the zoning designation for the project site and its surrounding area, which is consistent with the City's *General Plan*. The City's *General Plan* is consistent with SCAG's 2008 *Regional Comprehensive Plan*[2] guidelines and the SCAQMD's 2016 AQMP. Pursuant to the methodology provided in Chapter 12 of SCAQMD's 1993 *CEQA Air Quality Handbook*, consistency with the 2016 AQMP is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation, and (2) is consistent with the growth assumptions in the AQMP. Consistency review is presented below:

1. The Modified Project would result in short-term construction and long-term pollutant emissions that are less than the CEQA significance emissions thresholds established by SCAQMD, as demonstrated above; therefore, the Modified Project would not result in an increase in the frequency or severity of any air quality standards violation and will not cause a new air quality standard violation.

2. The *CEQA Air Quality Handbook* indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and significant projects. Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities. Because the Modified Project would not require an amendment to the City's General Plan or the Amended Specific Plan and does not meet the definition of a "significant project," as defined in the *CEQA Air Quality Handbook*, the Modified Project would be consistent with the growth assumptions in the South Coast Air Basin 2016 AQMP.

Based on the discussion and the consistency analysis presented above, the Modified Project is consistent with the City's General Plan and the regional AQMP.

Impacts to Sensitive Receptors

The sensitive land uses within the vicinity of the Modified Project include the existing Belmont Shores Children's Center (Preschool/Child Care) facility located within 25 feet (ft) of the northern boundary of the project site, residences approximately 80 ft to the west, and residences across East

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[1] The default vehicle fleet mix has changed in the newer version of CalEEMod model (v.2016.3.2) compared to the older version (v.2013.2.2) reported in the Approved Project. As a result, the NO_X, PM_{10}, and $PM_{2.5}$ emissions would increase slightly (between 1 to 2 lbs/day) for the mobile sources.

[2] Southern California Association of Governments (SCAG). 2008. Regional Comprehensive Plan. Website: http://www.scag.ca.gov/NewsAndMedia/Pages/RegionalComprehensivePlan.aspx (accessed November 2019).

Ocean Boulevard approximately 100 ft to the northeast of the project site. Table C shows that the localized construction emissions would not exceed the LSTs that apply to the closest receptor locations on the project site. Therefore, the Modified Project would not contribute to new significant construction-related air quality impacts that were not identified in the 2016 EIR.

Table C: Construction Localized Impacts Analysis

Emissions Sources	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	40	21	9	6
LST Thresholds	**123**	**1,530**	**14**	**8**
Exceed LST Thresholds?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (November 2019).
Note: Source Receptor Area – South Coastal Los Angeles County, 5 acres, receptors at 25 meters
CO = carbon monoxide
lbs/day = pounds per day
LST = local significance threshold
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

For a worst-case scenario assessment of operational localized impacts, the emissions shown in Table D, below, include all on-site project-related area sources and the project-related regional mobile sources, which are estimated at 5 percent of the total project-related vehicle traffic that will occur on-site. The closest sensitive receptors to the various construction phases are located within the shortest distance allowed in the SCAQMD's *Final Localized Significance Threshold Methodology* guidelines[1] (25 meters [82 ft]) and, therefore, LST values for 25 m were used.

Table D: Long-Term Operational Localized Impacts Analysis

Emissions Sources	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	1	2	<1	<1
LST Thresholds	**123**	**1,530**	**4**	**2**
Exceed LST Thresholds?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (November 2019).
Note: Source Receptor Area – South Coastal Los Angeles County, 5 acres, receptors at 25 meters, on-site traffic 5 percent of total.
CO = carbon monoxide
lbs/day = pounds per day
LST = localized significance thresholds
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

The 2016 EIR concluded that the localized emissions from operational activities would be less than significant. Table C shows that the localized operational emissions from the Modified Project would not exceed the LSTs; therefore, the existing Belmont Shores Children's Center (Preschool/Child Care) facility, which is located approximately 25 ft (7.6 m) to the west of the project site would not experience localized effects associated with the project. As such, the Modified Project would not

[1] SCAQMD. 2008. *Final Localized Significance Threshold Methodology,* June 2003, Revised July 2008. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2 (accessed November 2019).

contribute to new significant construction-related air quality impacts that were not identified in the 2016 EIR.

CO Hot Spot Analysis

Vehicular trips associated with the Modified Project would contribute to traffic at intersections and along roadway segments in the vicinity of the project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the Modified Project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions.

The 2016 EIR concluded that potential impacts related to localized mobile-source CO emissions would be less than significant based on the average daily trips anticipated at build out of the Approved Project. As shown in the Revised Traffic Analysis (LSA 2019) prepared for the Modified Project, the Modified Project would result in 900 weekend peak-hour trips, similar to the Approved Project. Therefore, the impact of the Modified Project to vehicle speeds and vehicular congestion at all intersections surrounding the project site would stay the same in comparison to the Approved Project.

Given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any surrounding intersections, project-related vehicles are not expected to contribute significantly to CO concentrations exceeding the State or federal CO standards. Because no CO hot spot would occur, there would be no project-related impacts on CO concentrations associated with implementation of the Modified Project.

Findings Related to Air Quality

No New Significant Effects Requiring Major EIR Revisions

Based on the foregoing analysis and information, there is no evidence that the Modified Project requires a major change to the 2016 EIR. The Modified Project would not result in new significant environmental impacts related to air quality, and there would not be a substantial increase in the severity of impacts described in the 2016 EIR.

No Substantial Change in Circumstances Requiring Major Revisions to the 2016 EIR

The project site and surrounding area have not been further developed or altered since the 2016 EIR was prepared. There is no information in the record or otherwise available that indicates that there are substantial changes in circumstances pertaining to air quality that would require major changes to the 2016 EIR.

No New Information Showing Greater Significant Effects than in the 2016 EIR

This report has reviewed all available relevant information to determine whether there is new information that was not available at the time the 2016 EIR was certified, indicating that a new significant effect not reported in that document may occur. Based on the information and analyses above, there is no substantial new information indicating that there would be a new significant impact to air quality requiring major revisions to the 2016 EIR.

No New Information Showing Ability to Reduce Significant Effects in the 2016 EIR

There are no alternatives to the project or additional mitigation measures that would substantially reduce one or more significant impacts pertaining to air quality identified and considered in the 2016 EIR.

Standard Conditions and Regulatory Compliance Measures

The following standard conditions pertaining to air quality were identified in the 2016 EIR for the Approved Project and are applicable to the Modified Project.

Standard Conditions

Construction Impacts. Applicable dust suppression techniques from SCAQMD's *CEQA Air Quality Handbook* and Rule 403 measures are summarized below. Implementation of these dust suppression techniques would reduce fugitive dust generation. Compliance with these rules would reduce impacts from fugitive dust on nearby sensitive receptors.

Standard Condition 4.2.1 Construction Emissions. The proposed project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. The South Coast Air Quality Management District (SCAQMD) Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 402 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable dust suppression techniques from Rules 403 and 402 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the particulate matter less than 10 microns in diameter [PM_{10}] component).

Standard Condition 4.2.2 Applicable Rules 403 and 402 Measures. The project construction contractor shall develop and implement dust-control methods that shall achieve this control level in a SCAQMD Rule 403 dust control plan, designate personnel to monitor the dust control program, and order increased watering, as necessary, to ensure a 55 percent control level. Those duties shall include holiday and weekend periods when work may not be in progress. Additional control measures to reduce fugitive dust shall include, but are not limited to, the following:

- Apply water twice daily, or nontoxic soil stabilizers according to manufacturers' specifications, to all unpaved parking or staging areas or unpaved road surfaces or as needed to areas where soil is disturbed.

- Use low-sulfur fuel for stationary construction equipment. This is required by SCAQMD Rules 431.1 and 431.2.

- During earthmoving or excavation operations, fugitive dust emissions shall be controlled by regular watering or other dust-preventive measures using the following procedures:
    - All material excavated shall be sufficiently watered to prevent excessive amounts of dust. Watering, with complete coverage, shall occur at least twice daily, preferably in the late morning and after work is done for the day.
    - All earthmoving or excavation activities shall cease during periods of high winds (i.e., winds greater than 20 miles per hour [mph] averaged over 1 hour).
    - All material transported off site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by earthmoving or excavation operations shall be minimized at all times.
- After earthmoving or excavation operations, fugitive dust emissions shall be controlled using the following measures:
    - Portions of the construction area to remain inactive longer than a period of 3 months shall be revegetated and watered until cover is grown.
    - All active portions of the construction site shall be watered to prevent excessive amounts of dust.
- At all times, fugitive dust emissions shall be controlled using the following procedures:
    - On-site vehicle speed shall be limited to 15 mph.
    - Road improvements shall be paved as soon as feasible, watered periodically, or chemically stabilized.
- At all times during the construction phase, ozone precursor emissions from mobile equipment shall be controlled using the following procedures:
    - Equipment engines shall be maintained in good condition and in proper tune according to manufacturers' specifications.

- On-site mobile equipment shall not be left idling for a period longer than 60 seconds.

- Outdoor storage piles of construction materials shall be kept covered, watered, or otherwise chemically stabilized with a chemical wetting agent to minimize fugitive dust emissions and wind erosion.

GREENHOUSE GASES

A brief summary of the greenhouse gas (GHG) emissions from the 2016 EIR is provided in the section below.

2016 EIR

Generate Greenhouse Gas Emissions

The 2016 EIR concluded that the Approved Project would result in 2,900 metric tons of carbon dioxide equivalent (MT of CO_2e) per year during the operational phase. In comparing the Approved Project to the SCAQMD's tiered draft interim GHG significance criteria, emissions would be below the screening threshold of 3,000 MT of CO_2e per year for the Approved Project and would be considered to have a less than significant impact related to GHG emissions. No mitigation was required.

Conflict with an Applicable GHG Reduction Plan, Policy, or Regulation

The GHG emissions reduction goals in the California Air Resources Board's (CARB) *California's 2017 Climate Change Scoping Plan*[1] are scoped to manage total statewide GHG emissions of approximately 496.95 million MT of CO_2e per year. The Approved Project was estimated to produce approximately 2,900 MT of CO_2e per year over existing conditions, representing approximately 0.001 MT of CO_2e per year of the City's reduction goals. Therefore, the Approved Project was not considered to result in GHG emission levels that would substantially conflict with implementation of the GHG reduction goals under the City's *Sustainable City Action Plan*[2], CARB's *California's 2017 Climate Change Scoping Plan*, Assembly Bill (AB) 32, Senate Bill (SB) 32, or other State regulations. Therefore, the Approved Project was determined to have a less than significant impact related to potential conflicts with regulations outlined in the City's *Sustainable City Action Plan* and GHG emissions reduction goals. No mitigation was required.

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1 California Air Resources Board (CARB). 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf?_ga=2.83321494.1464349424.1513296974-446607795.1484971874 (accessed November 2019).

2 City of Long Beach. Sustainable Long Beach. *Sustainable City Action Plan*. Website: http://www.longbeach.gov/globalassets/sustainability/media-library/documents/nature-initiatives/action-plan/scap-final (accessed November 2019).

Analysis of the Modified Project

Generate Greenhouse Gas Emissions

During construction of the Modified Project, GHGs would be emitted through the operation of construction equipment and from worker and vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

Construction activities produce combustion GHG emissions from various sources (construction of pool area improvements and motor vehicle transport of the construction crew). The tentative project construction schedule for the Modified Project is based on a probable start date of May 2021 (after asphalt demolition of the existing parking lot) with a planned completion date of October 2022. The project site is mostly flat and ready for site preparation and construction. Table E lists the annual CO_2e emissions for each of the construction phases based on the results from CalEEMod.

Table E: Modified Project Construction GHG Emissions

Construction Phase		Total Regional Pollutant Emissions (MT/yr)			
		CO_2	CH_4	N_2O	CO_2e
2021	Site Preparation	17.6	<0.01	0	17.7
	Grading	67.1	0.0	0	67.4
	Building Construction	314.0	0.0	0	315.1
2022	Building Construction	342.9	0.1	0	344.2
	Paving	21.4	<0.01	0	21.6
	Architectural Coating	4.5	<0.01	0	4.5
Total Construction Emissions		**767.5**	**0.1**	**0**	**770.5**
Amortized over 30 years		**25.6**	**<0.01**	**0**	**25.7**

Source: Compiled by LSA (November 2019).
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT/yr = metric tons per year
N_2O = nitrous oxide

Long-term operation of the Modified Project would generate GHG emissions from area and mobile sources and indirect emissions from stationary sources associated with energy consumption. The majority of energy consumption (and associated generation of GHG emissions) would occur during the project's operation (as opposed to during its construction). Typically, more than 80 percent of the total energy consumption takes place during the use of buildings and less than 20 percent of energy is consumed during construction.[1] Mobile-source emissions of GHGs would include project-generated vehicle trips associated with the recreational pool employees and patrons vehicle trips. Area-source emissions would be associated with activities including landscaping and maintenance of the Modified Project, natural gas for pool heating, and other sources. Increases in stationary-source

[1] United States Department of Energy. 2015. An Assessment of Energy Technologies and Research Opportunities. Quadrennial Technology Review. Chapter 5: Increasing Efficiency of Building Systems and Technologies. Website: https://www.energy.gov/sites/prod/files/2017/03/f34/qtr-2015-chapter5.pdf (accessed November 2019.)

emissions would also occur at off-site utility providers as a result of demand for electricity, natural gas, and water by the Modified Project.

Based on trip generation factors provided in the Revised Traffic Analysis (LSA 2019) prepared for the Modified Project, the trip generation rate would not change in the Modified Project from that in the Approved Project. Similar to the air quality emissions modeling, the GHG modeling incorporates project design features in accordance with the 2020 California Green Building Standard Codes such as the use of low-flow water fixtures and water-efficient irrigation systems.

The GHG emission estimates presented in Table F, below, show the emissions associated with the level of development envisioned by the Modified Project at project opening in comparison to the GHG emissions estimates for the Approved Project, as reported in the 2016 EIR. Area sources include consumer products and landscaping. Energy sources include natural gas consumption for pool heating. As shown in Table F, the Modified Project is estimated to result in GHG emissions of approximately 2,670 MT of CO_2e per year.

Table F: Operational Greenhouse Gas Emissions

Source	Pollutant Emissions (MT/yr)					
	Bio- CO_2	NBio- CO_2	Total CO_2	CH_4	N_2O	CO_2e
Total Approved Project Emissions						**2,900**
Modified Project Construction Emissions						
Construction emissions amortized over 30 years	0	25.6	25.6	<0.1	0	25.7
Modified Project Operational Emissions						
Area Sources	0	<0.1	<0.1	0	0	<0.1
Energy Sources	0	56.2	56.2	<0.1	<0.1	56.4
Mobile Sources	0	2,367.6	2,367.6	0.1	0	2,370.6
Waste Sources	48.9	0	48.9	2.9	0	121.1
Water Usage	0.6	10.1	10.7	0.1	<0.1	12.8
Total Modified Project Emissions	**49.5**	**2,459.4**	**2,508.9**	**3.1**	**0**	**2,586.7**

Source: Compiled by LSA (November 2019).
Note: Numbers in table may not appear to add up correctly due to rounding of all numbers to two significant digits.
Bio-CO_2 = biologically generated CO_2
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT/yr = metric tons per year
N_2O = nitrous oxide
NBio-CO_2 = Non-biologically generated CO_2

By comparison, the 2016 EIR estimated the GHG emissions associated with the Approved Project to be 2,900 MT of CO_2e per year. The GHG emission estimates presented in Table F show that the Modified Project would generate approximately 2,586.7 MT of CO_2e per year, less than what was estimated for the Approved Project. Therefore, the Modified Project would generate fewer GHG emissions than the Approved Project and would not impede or interfere with achieving the State's emission reduction objectives in CARB's *California's 2017 Climate Change Scoping Plan* and the City's working draft *Climate Action and Adaptation Plan* (CAAP). Therefore, the Modified Project's impacts related to GHG emissions would remain less than significant, and no mitigation is required.

Conflict with an Applicable GHG Reduction Plan, Policy, or Regulation

The City has released a working draft of the CAAP to manage total citywide GHG emissions of approximately 3.1 million MT of CO_2e per year. Based on the City's population growth estimates, the 2030 target emissions level is 2.1 million MT of CO_2e per year, and will require GHG reductions of approximately 980,000 MT of CO_2e to achieve this target. As indicated above, the Modified Project would generate fewer GHG emissions than the Approved Project and would not impede or interfere with achieving the State's emission reduction objectives in CARB's *California's 2017 Climate Change Scoping Plan* and the City's working draft CAAP. Therefore, the Modified Project's impacts related to conflicts with GHG reduction plans, policies, and regulations would remain less than significant, and no mitigation is required.

Cumulative Impacts

Similar to air pollution, GHG emissions are inherently a cumulative type of impact measured across a region. The discussion above includes an analysis of the Modified Project's contribution to cumulative GHG emissions. The Modified Project would be consistent with the statewide targets and applicable regional air quality standards of significance. As stated above, the Modified Project's estimated GHG emissions would be less than the GHG emissions estimated for the Approved Project. The Approved Project demonstrated compliance with the reductions target established by the CARB to satisfy compliance with the mandates of AB 32 and SB 32. The Modified Project would generate fewer GHG emissions; as such, the Modified Project would also be in compliance with CARB's *California's 2017 Climate Change Scoping Plan* and the City's *Sustainable City Action Plan*. Because the Modified Project is consistent with the GHG emissions reduction target from CARB and the City, and because its impacts alone would not cause or significantly contribute to global climate change, project-related GHG emissions would not be considered cumulatively considerable. Therefore, the Modified Project would not result in a new or worsening GHG impact. Therefore, the Modified Project would not have a cumulatively considerable increase in emissions, and the Modified Project's cumulative GHG emissions impacts would remain less than significant.

Findings Related to Greenhouse Gases

No New Significant Effects Requiring Major Revisions to the 2016 EIR

Based on the foregoing analysis and information, there is no evidence that the Modified Project requires a major change to the 2016 EIR. The Modified Project would not result in new significant environmental impacts related to GHG emissions, and there would not be a substantial increase in the severity of impacts described in the 2016 EIR.

No Substantial Change in Circumstances Requiring Major Revisions to the 2016 EIR

The project site and surrounding area have not been further developed or altered since the 2016 EIR was prepared. There is no information in the record or otherwise available that indicates that there are substantial changes in circumstances pertaining to GHG emissions that would require major changes to the 2016 EIR.

No New Information Showing Greater Significant Effects than in the 2016 EIR

This analysis has analyzed all available relevant information to determine whether there is new information that was not available at the time the 2016 EIR was certified, indicating that a new

significant effect not reported in that document may occur. Based on the information and analyses above, there is no substantial new information indicating that there would be a new significant impact to GHG emissions requiring major revisions to the 2016 EIR.

No New Information Showing Ability to Reduce Significant Effects in 2016 EIR

There are no alternatives to the project or additional mitigation measures that would substantially reduce one or more significant impacts pertaining to GHG emissions identified and considered in the 2016 EIR.

Attachment: CalEEMod Output Worksheets

Belmont Pool

South Coast 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	4.83	Acre	4.83	210,394.80	0
Recreational Swimming Pool	26.78	1000sqft	0.61	26,779.00	0
Health Club	15.48	1000sqft	0.36	15,480.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	528.75	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Facotr is based on SCE 2020 forecast in the City's General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - Project area remains 5.80 acres.

Construction Phase - Estimated project completion October 2022.

Grading - Project grading projected to remove 8,500 net Cubic Yards of material.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Vehicle Trips - a

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	230.00	305.00
tblConstructionPhase	PhaseEndDate	2/9/2021	10/7/2022
tblConstructionPhase	PhaseEndDate	12/15/2020	8/12/2022
tblConstructionPhase	PhaseEndDate	1/28/2020	6/11/2021
tblConstructionPhase	PhaseEndDate	1/12/2021	9/9/2022
tblConstructionPhase	PhaseEndDate	12/31/2019	5/14/2021
tblConstructionPhase	PhaseStartDate	1/13/2021	9/10/2022
tblConstructionPhase	PhaseStartDate	1/29/2020	6/12/2021
tblConstructionPhase	PhaseStartDate	1/1/2020	5/15/2021
tblConstructionPhase	PhaseStartDate	12/16/2020	8/13/2022
tblConstructionPhase	PhaseStartDate	12/18/2019	5/3/2021
tblGrading	MaterialExported	0.00	8,500.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	528.75
tblSequestration	NumberOfNewTrees	0.00	54.00
tblTripsAndVMT	HaulingTripNumber	1,063.00	1,062.00
tblVehicleTrips	ST_TR	9.10	47.50
tblVehicleTrips	SU_TR	13.60	61.00
tblVehicleTrips	WD_TR	33.82	75.10

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					
2021	3.9712	40.5510	21.7636	0.0711	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	7,350.6558	7,350.6558	1.2393	0.0000	7,381.6379
2022	10.3962	19.5995	20.6575	0.0476	1.4472	0.8245	2.2718	0.3898	0.7757	1.1655	0.0000	4,687.7786	4,687.7786	0.7178	0.0000	4,705.4868
Maximum	**10.3962**	**40.5510**	**21.7636**	**0.0711**	**18.2675**	**2.0459**	**20.3134**	**9.9840**	**1.8823**	**11.8663**	**0.0000**	**7,350.6558**	**7,350.6558**	**1.2393**	**0.0000**	**7,381.6379**

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					
2021	3.9712	40.5510	21.7636	0.0711	7.2470	2.0459	9.2930	3.9263	1.8823	5.8086	0.0000	7,350.6558	7,350.6558	1.2393	0.0000	7,381.6379
2022	10.3962	19.5995	20.6575	0.0476	1.4472	0.8245	2.2718	0.3898	0.7757	1.1655	0.0000	4,687.7786	4,687.7786	0.7178	0.0000	4,705.4868
Maximum	**10.3962**	**40.5510**	**21.7636**	**0.0711**	**7.2470**	**2.0459**	**9.2930**	**3.9263**	**1.8823**	**5.8086**	**0.0000**	**7,350.6558**	**7,350.6558**	**1.2393**	**0.0000**	**7,381.6379**

	ROG	**NOx**	**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**	**55.90**	**0.00**	**48.79**	**58.39**	**0.00**	**46.48**	**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	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Energy	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
Mobile	3.6202	18.9043	41.1850	0.1504	12.7333	0.1231	12.8564	3.4069	0.1149	3.5218		15,332.6371	15,332.6371	0.7920		15,352.4363
Total	**4.0653**	**18.9796**	**41.2531**	**0.1509**	**12.7333**	**0.1289**	**12.8622**	**3.4069**	**0.1206**	**3.5276**		**15,422.9578**	**15,422.9578**	**0.7937**	**1.6600e-003**	**15,443.2944**

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	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Energy	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
Mobile	3.6202	18.9043	41.1850	0.1504	12.7333	0.1231	12.8564	3.4069	0.1149	3.5218		15,332.6371	15,332.6371	0.7920		15,352.4363
Total	**4.0653**	**18.9796**	**41.2531**	**0.1509**	**12.7333**	**0.1289**	**12.8622**	**3.4069**	**0.1206**	**3.5276**		**15,422.9578**	**15,422.9578**	**0.7937**	**1.6600e-003**	**15,443.2944**

	ROG	NOx	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	Site Preparation	Site Preparation	5/3/2021	5/14/2021	5	10	
2	Grading	Grading	5/15/2021	6/11/2021	5	20	
3	Building Construction	Building Construction	6/12/2021	8/12/2022	5	305	
4	Paving	Paving	8/13/2022	9/9/2022	5	20	
5	Architectural Coating	Architectural Coating	9/10/2022	10/7/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.83

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 23,220; Non-Residential Outdoor: 7,740; Striped Parking Area: 12,624 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,062.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	41.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	**0.0830**	**0.0539**	**0.6094**	**1.8700e-003**	**0.2012**	**1.4800e-003**	**0.2027**	**0.0534**	**1.3600e-003**	**0.0547**		**186.4202**	**186.4202**	**5.0000e-003**		**186.5451**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	**0.0830**	**0.0539**	**0.6094**	**1.8700e-003**	**0.2012**	**1.4800e-003**	**0.2027**	**0.0534**	**1.3600e-003**	**0.0547**		**186.4202**	**186.4202**	**5.0000e-003**		**186.5451**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6004	0.0000	6.6004	3.3748	0.0000	3.3748			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.6004**	**1.1599**	**7.7603**	**3.3748**	**1.0671**	**4.4419**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.3963	13.5934	3.0527	0.0399	0.9279	0.0423	0.9701	0.2543	0.0404	0.2947		4,323.3772	4,323.3772	0.3063		4,331.0341
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.4655**	**13.6384**	**3.5605**	**0.0415**	**1.0955**	**0.0435**	**1.1390**	**0.2988**	**0.0416**	**0.3403**		**4,478.7273**	**4,478.7273**	**0.3104**		**4,486.4884**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5742	0.0000	2.5742	1.3162	0.0000	1.3162			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5742**	**1.1599**	**3.7341**	**1.3162**	**1.0671**	**2.3833**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.3963	13.5934	3.0527	0.0399	0.9279	0.0423	0.9701	0.2543	0.0404	0.2947		4,323.3772	4,323.3772	0.3063		4,331.0341
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.4655**	**13.6384**	**3.5605**	**0.0415**	**1.0955**	**0.0435**	**1.1390**	**0.2988**	**0.0416**	**0.3403**		**4,478.7273**	**4,478.7273**	**0.3104**		**4,486.4884**

3.4 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**

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	0.1201	3.8980	1.0384	0.0102	0.2624	8.1300e-003	0.2705	0.0755	7.7700e-003	0.0833		1,084.6558	1,084.6558	0.0726		1,086.4701
Worker	0.4889	0.3177	3.5885	0.0110	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,097.8080	1,097.8080	0.0294		1,098.5435
Total	**0.6090**	**4.2157**	**4.6269**	**0.0212**	**1.4472**	**0.0169**	**1.4641**	**0.3898**	**0.0158**	**0.4056**		**2,182.4637**	**2,182.4637**	**0.1020**		**2,185.0136**

3.4 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	1.9009	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**

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	0.1201	3.8980	1.0384	0.0102	0.2624	8.1300e-003	0.2705	0.0755	7.7700e-003	0.0833		1,084.6558	1,084.6558	0.0726		1,086.4701
Worker	0.4889	0.3177	3.5885	0.0110	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,097.8080	1,097.8080	0.0294		1,098.5435
Total	**0.6090**	**4.2157**	**4.6269**	**0.0212**	**1.4472**	**0.0169**	**1.4641**	**0.3898**	**0.0158**	**0.4056**		**2,182.4637**	**2,182.4637**	**0.1020**		**2,185.0136**

3.4 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**

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	0.1127	3.6970	0.9819	0.0101	0.2624	7.0500e-003	0.2695	0.0755	6.7400e-003	0.0823		1,074.9963	1,074.9963	0.0698		1,076.7417
Worker	0.4598	0.2869	3.3122	0.0106	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,058.4487	1,058.4487	0.0266		1,059.1129
Total	**0.5724**	**3.9839**	**4.2941**	**0.0207**	**1.4472**	**0.0155**	**1.4628**	**0.3898**	**0.0145**	**0.4043**		**2,133.4450**	**2,133.4450**	**0.0964**		**2,135.8546**

3.4 Building Construction - 2022

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**

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	0.1127	3.6970	0.9819	0.0101	0.2624	7.0500e-003	0.2695	0.0755	6.7400e-003	0.0823		1,074.9963	1,074.9963	0.0698		1,076.7417
Worker	0.4598	0.2869	3.3122	0.0106	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,058.4487	1,058.4487	0.0266		1,059.1129
Total	**0.5724**	**3.9839**	**4.2941**	**0.0207**	**1.4472**	**0.0155**	**1.4628**	**0.3898**	**0.0145**	**0.4043**		**2,133.4450**	**2,133.4450**	**0.0964**		**2,135.8546**

3.5 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	**0.0651**	**0.0406**	**0.4687**	**1.5000e-003**	**0.1677**	**1.2000e-003**	**0.1689**	**0.0445**	**1.1000e-003**	**0.0456**		**149.7805**	**149.7805**	**3.7600e-003**		**149.8745**

3.5 Paving - 2022

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0651	0.0406	0.4687	1.5000e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		149.7805	149.7805	3.7600e-003		149.8745
Total	**0.0651**	**0.0406**	**0.4687**	**1.5000e-003**	**0.1677**	**1.2000e-003**	**0.1689**	**0.0445**	**1.1000e-003**	**0.0456**		**149.7805**	**149.7805**	**3.7600e-003**		**149.8745**

3.6 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	lb/day										lb/day					
Archit. Coating	10.1006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**10.3051**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

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	0.0911	0.0568	0.6562	2.1000e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		209.6927	209.6927	5.2600e-003		209.8243
Total	**0.0911**	**0.0568**	**0.6562**	**2.1000e-003**	**0.2347**	**1.6800e-003**	**0.2364**	**0.0623**	**1.5500e-003**	**0.0638**		**209.6927**	**209.6927**	**5.2600e-003**		**209.8243**

3.6 Architectural Coating - 2022

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	10.1006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**10.3051**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

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	0.0911	0.0568	0.6562	2.1000e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		209.6927	209.6927	5.2600e-003		209.8243
Total	**0.0911**	**0.0568**	**0.6562**	**2.1000e-003**	**0.2347**	**1.6800e-003**	**0.2364**	**0.0623**	**1.5500e-003**	**0.0638**		**209.6927**	**209.6927**	**5.2600e-003**		**209.8243**

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	3.6202	18.9043	41.1850	0.1504	12.7333	0.1231	12.8564	3.4069	0.1149	3.5218		15,332.6371	15,332.6371	0.7920		15,352.4363
Unmitigated	3.6202	18.9043	41.1850	0.1504	12.7333	0.1231	12.8564	3.4069	0.1149	3.5218		15,332.6371	15,332.6371	0.7920		15,352.4363

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	509.76	323.07	413.78	1,003,887	1,003,887
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,011.10	1,272.00	1633.52	4,509,537	4,509,537
Total	2,520.86	1,595.07	2,047.30	5,513,424	5,513,424

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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Other Non-Asphalt Surfaces	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Recreational Swimming Pool	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

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	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
NaturalGas Unmitigated	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471

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					
Health Club	767.638	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
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
Recreational Swimming Pool	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
Total		**8.2800e-003**	**0.0753**	**0.0632**	**4.5000e-004**		**5.7200e-003**	**5.7200e-003**		**5.7200e-003**	**5.7200e-003**		**90.3104**	**90.3104**	**1.7300e-003**	**1.6600e-003**	**90.8471**

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					
Health Club	0.767638	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
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
Recreational Swimming Pool	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
Total		**8.2800e-003**	**0.0753**	**0.0632**	**4.5000e-004**		**5.7200e-003**	**5.7200e-003**		**5.7200e-003**	**5.7200e-003**		**90.3104**	**90.3104**	**1.7300e-003**	**1.6600e-003**	**90.8471**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Unmitigated	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Total	**0.4368**	**4.0000e-005**	**4.8200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0103**	**0.0103**	**3.0000e-005**		**0.0110**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Total	**0.4368**	**4.0000e-005**	**4.8200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0103**	**0.0103**	**3.0000e-005**		**0.0110**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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

Belmont Pool

South Coast 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	4.83	Acre	4.83	210,394.80	0
Recreational Swimming Pool	26.78	1000sqft	0.61	26,779.00	0
Health Club	15.48	1000sqft	0.36	15,480.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	528.75	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Facotr is based on SCE 2020 forecast in the City's General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - Project area remains 5.80 acres.

Construction Phase - Estimated project completion October 2022.

Grading - Project grading projected to remove 8,500 net Cubic Yards of material.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Vehicle Trips - a

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	230.00	305.00
tblConstructionPhase	PhaseEndDate	2/9/2021	10/7/2022
tblConstructionPhase	PhaseEndDate	12/15/2020	8/12/2022
tblConstructionPhase	PhaseEndDate	1/28/2020	6/11/2021
tblConstructionPhase	PhaseEndDate	1/12/2021	9/9/2022
tblConstructionPhase	PhaseEndDate	12/31/2019	5/14/2021
tblConstructionPhase	PhaseStartDate	1/13/2021	9/10/2022
tblConstructionPhase	PhaseStartDate	1/29/2020	6/12/2021
tblConstructionPhase	PhaseStartDate	1/1/2020	5/15/2021
tblConstructionPhase	PhaseStartDate	12/16/2020	8/13/2022
tblConstructionPhase	PhaseStartDate	12/18/2019	5/3/2021
tblGrading	MaterialExported	0.00	8,500.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	528.75
tblSequestration	NumberOfNewTrees	0.00	54.00
tblTripsAndVMT	HaulingTripNumber	1,063.00	1,062.00
tblVehicleTrips	ST_TR	9.10	47.50
tblVehicleTrips	SU_TR	13.60	61.00
tblVehicleTrips	WD_TR	33.82	75.10

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					
2021	3.9642	40.5464	21.8324	0.0720	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	7,442.8941	7,442.8941	1.2272	0.0000	7,473.5735
2022	10.3883	19.5896	20.9329	0.0487	1.4472	0.8243	2.2715	0.3898	0.7755	1.1653	0.0000	4,793.3634	4,793.3634	0.7180	0.0000	4,811.0014
Maximum	**10.3883**	**40.5464**	**21.8324**	**0.0720**	**18.2675**	**2.0459**	**20.3134**	**9.9840**	**1.8823**	**11.8663**	**0.0000**	**7,442.8941**	**7,442.8941**	**1.2272**	**0.0000**	**7,473.5735**

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					
2021	3.9642	40.5464	21.8324	0.0720	7.2470	2.0459	9.2930	3.9263	1.8823	5.8086	0.0000	7,442.8941	7,442.8941	1.2272	0.0000	7,473.5735
2022	10.3883	19.5896	20.9329	0.0487	1.4472	0.8243	2.2715	0.3898	0.7755	1.1653	0.0000	4,793.3634	4,793.3634	0.7180	0.0000	4,811.0014
Maximum	**10.3883**	**40.5464**	**21.8324**	**0.0720**	**7.2470**	**2.0459**	**9.2930**	**3.9263**	**1.8823**	**5.8086**	**0.0000**	**7,442.8941**	**7,442.8941**	**1.2272**	**0.0000**	**7,473.5735**

	ROG	**NOx**	**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**	**55.90**	**0.00**	**48.80**	**58.39**	**0.00**	**46.48**	**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	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Energy	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
Mobile	3.8219	18.6767	43.3728	0.1591	12.7333	0.1222	12.8555	3.4069	0.1140	3.5209		16,207.0117	16,207.0117	0.7848		16,226.6312
Total	**4.2670**	**18.7520**	**43.4408**	**0.1595**	**12.7333**	**0.1279**	**12.8612**	**3.4069**	**0.1197**	**3.5267**		**16,297.3324**	**16,297.3324**	**0.7865**	**1.6600e-003**	**16,317.4893**

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	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Energy	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
Mobile	3.8219	18.6767	43.3728	0.1591	12.7333	0.1222	12.8555	3.4069	0.1140	3.5209		16,207.0117	16,207.0117	0.7848		16,226.6312
Total	**4.2670**	**18.7520**	**43.4408**	**0.1595**	**12.7333**	**0.1279**	**12.8612**	**3.4069**	**0.1197**	**3.5267**		**16,297.3324**	**16,297.3324**	**0.7865**	**1.6600e-003**	**16,317.4893**

	ROG	NOx	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	Site Preparation	Site Preparation	5/3/2021	5/14/2021	5	10	
2	Grading	Grading	5/15/2021	6/11/2021	5	20	
3	Building Construction	Building Construction	6/12/2021	8/12/2022	5	305	
4	Paving	Paving	8/13/2022	9/9/2022	5	20	
5	Architectural Coating	Architectural Coating	9/10/2022	10/7/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.83

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 23,220; Non-Residential Outdoor: 7,740; Striped Parking Area: 12,624 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,062.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	41.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	**0.0760**	**0.0493**	**0.6781**	**2.0000e-003**	**0.2012**	**1.4800e-003**	**0.2027**	**0.0534**	**1.3600e-003**	**0.0547**		**199.3326**	**199.3326**	**5.3600e-003**		**199.4666**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**7.0458**	**2.0445**	**9.0903**	**3.8730**	**1.8809**	**5.7539**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

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	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	**0.0760**	**0.0493**	**0.6781**	**2.0000e-003**	**0.2012**	**1.4800e-003**	**0.2027**	**0.0534**	**1.3600e-003**	**0.0547**		**199.3326**	**199.3326**	**5.3600e-003**		**199.4666**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6004	0.0000	6.6004	3.3748	0.0000	3.3748			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.6004**	**1.1599**	**7.7603**	**3.3748**	**1.0671**	**4.4419**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.3853	13.4337	2.8436	0.0407	0.9279	0.0416	0.9695	0.2543	0.0398	0.2941		4,404.8551	4,404.8551	0.2939		4,412.2018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.4486**	**13.4748**	**3.4087**	**0.0424**	**1.0955**	**0.0429**	**1.1384**	**0.2988**	**0.0410**	**0.3397**		**4,570.9656**	**4,570.9656**	**0.2983**		**4,578.4240**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5742	0.0000	2.5742	1.3162	0.0000	1.3162			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5742**	**1.1599**	**3.7341**	**1.3162**	**1.0671**	**2.3833**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.3853	13.4337	2.8436	0.0407	0.9279	0.0416	0.9695	0.2543	0.0398	0.2941		4,404.8551	4,404.8551	0.2939		4,412.2018
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.4486**	**13.4748**	**3.4087**	**0.0424**	**1.0955**	**0.0429**	**1.1384**	**0.2988**	**0.0410**	**0.3397**		**4,570.9656**	**4,570.9656**	**0.2983**		**4,578.4240**

3.4 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**

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	0.1141	3.9104	0.9279	0.0105	0.2624	7.8800e-003	0.2703	0.0755	7.5300e-003	0.0831		1,116.9977	1,116.9977	0.0676		1,118.6869
Worker	0.4475	0.2902	3.9933	0.0118	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,173.8475	1,173.8475	0.0316		1,174.6367
Total	**0.5615**	**4.2006**	**4.9212**	**0.0222**	**1.4472**	**0.0166**	**1.4638**	**0.3898**	**0.0156**	**0.4053**		**2,290.8452**	**2,290.8452**	**0.0991**		**2,293.3236**

3.4 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	1.9009	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**

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	0.1141	3.9104	0.9279	0.0105	0.2624	7.8800e-003	0.2703	0.0755	7.5300e-003	0.0831		1,116.9977	1,116.9977	0.0676		1,118.6869
Worker	0.4475	0.2902	3.9933	0.0118	1.1848	8.7200e-003	1.1936	0.3142	8.0300e-003	0.3223		1,173.8475	1,173.8475	0.0316		1,174.6367
Total	**0.5615**	**4.2006**	**4.9212**	**0.0222**	**1.4472**	**0.0166**	**1.4638**	**0.3898**	**0.0156**	**0.4053**		**2,290.8452**	**2,290.8452**	**0.0991**		**2,293.3236**

3.4 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**

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	0.1070	3.7119	0.8770	0.0104	0.2624	6.8200e-003	0.2692	0.0755	6.5200e-003	0.0821		1,107.2424	1,107.2424	0.0651		1,108.8686
Worker	0.4197	0.2621	3.6925	0.0114	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,131.7874	1,131.7874	0.0285		1,132.5006
Total	**0.5267**	**3.9740**	**4.5695**	**0.0217**	**1.4472**	**0.0153**	**1.4625**	**0.3898**	**0.0143**	**0.4041**		**2,239.0298**	**2,239.0298**	**0.0936**		**2,241.3692**

3.4 Building Construction - 2022

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**

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	0.1070	3.7119	0.8770	0.0104	0.2624	6.8200e-003	0.2692	0.0755	6.5200e-003	0.0821		1,107.2424	1,107.2424	0.0651		1,108.8686
Worker	0.4197	0.2621	3.6925	0.0114	1.1848	8.4700e-003	1.1933	0.3142	7.8000e-003	0.3220		1,131.7874	1,131.7874	0.0285		1,132.5006
Total	**0.5267**	**3.9740**	**4.5695**	**0.0217**	**1.4472**	**0.0153**	**1.4625**	**0.3898**	**0.0143**	**0.4041**		**2,239.0298**	**2,239.0298**	**0.0936**		**2,241.3692**

3.5 Paving - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	**0.0594**	**0.0371**	**0.5225**	**1.6100e-003**	**0.1677**	**1.2000e-003**	**0.1689**	**0.0445**	**1.1000e-003**	**0.0456**		**160.1586**	**160.1586**	**4.0400e-003**		**160.2595**

3.5 Paving - 2022

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1028**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

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	0.0594	0.0371	0.5225	1.6100e-003	0.1677	1.2000e-003	0.1689	0.0445	1.1000e-003	0.0456		160.1586	160.1586	4.0400e-003		160.2595
Total	**0.0594**	**0.0371**	**0.5225**	**1.6100e-003**	**0.1677**	**1.2000e-003**	**0.1689**	**0.0445**	**1.1000e-003**	**0.0456**		**160.1586**	**160.1586**	**4.0400e-003**		**160.2595**

3.6 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	lb/day										lb/day					
Archit. Coating	10.1006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**10.3051**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

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	0.0832	0.0519	0.7315	2.2500e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		224.2220	224.2220	5.6500e-003		224.3633
Total	**0.0832**	**0.0519**	**0.7315**	**2.2500e-003**	**0.2347**	**1.6800e-003**	**0.2364**	**0.0623**	**1.5500e-003**	**0.0638**		**224.2220**	**224.2220**	**5.6500e-003**		**224.3633**

3.6 Architectural Coating - 2022

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	10.1006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**10.3051**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

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	0.0832	0.0519	0.7315	2.2500e-003	0.2347	1.6800e-003	0.2364	0.0623	1.5500e-003	0.0638		224.2220	224.2220	5.6500e-003		224.3633
Total	**0.0832**	**0.0519**	**0.7315**	**2.2500e-003**	**0.2347**	**1.6800e-003**	**0.2364**	**0.0623**	**1.5500e-003**	**0.0638**		**224.2220**	**224.2220**	**5.6500e-003**		**224.3633**

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	3.8219	18.6767	43.3728	0.1591	12.7333	0.1222	12.8555	3.4069	0.1140	3.5209		16,207.0117	16,207.0117	0.7848		16,226.6312
Unmitigated	3.8219	18.6767	43.3728	0.1591	12.7333	0.1222	12.8555	3.4069	0.1140	3.5209		16,207.0117	16,207.0117	0.7848		16,226.6312

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	509.76	323.07	413.78	1,003,887	1,003,887
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,011.10	1,272.00	1633.52	4,509,537	4,509,537
Total	2,520.86	1,595.07	2,047.30	5,513,424	5,513,424

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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Other Non-Asphalt Surfaces	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Recreational Swimming Pool	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

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	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
NaturalGas Unmitigated	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471

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					
Health Club	767.638	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
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
Recreational Swimming Pool	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
Total		**8.2800e-003**	**0.0753**	**0.0632**	**4.5000e-004**		**5.7200e-003**	**5.7200e-003**		**5.7200e-003**	**5.7200e-003**		**90.3104**	**90.3104**	**1.7300e-003**	**1.6600e-003**	**90.8471**

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					
Health Club	0.767638	8.2800e-003	0.0753	0.0632	4.5000e-004		5.7200e-003	5.7200e-003		5.7200e-003	5.7200e-003		90.3104	90.3104	1.7300e-003	1.6600e-003	90.8471
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
Recreational Swimming Pool	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
Total		**8.2800e-003**	**0.0753**	**0.0632**	**4.5000e-004**		**5.7200e-003**	**5.7200e-003**		**5.7200e-003**	**5.7200e-003**		**90.3104**	**90.3104**	**1.7300e-003**	**1.6600e-003**	**90.8471**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Unmitigated	0.4368	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Total	**0.4368**	**4.0000e-005**	**4.8200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0103**	**0.0103**	**3.0000e-005**		**0.0110**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0103	0.0103	3.0000e-005		0.0110
Total	**0.4368**	**4.0000e-005**	**4.8200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0103**	**0.0103**	**3.0000e-005**		**0.0110**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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

Belmont Pool

South Coast 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	4.83	Acre	4.83	210,394.80	0
Recreational Swimming Pool	26.78	1000sqft	0.61	26,779.00	0
Health Club	15.48	1000sqft	0.36	15,480.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	528.75	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Facotr is based on SCE 2020 forecast in the City's General Plan, 33% RPS, Cap and Trade, and reduction in SF6.

Land Use - Project area remains 5.80 acres.

Construction Phase - Estimated project completion October 2022.

Grading - Project grading projected to remove 8,500 net Cubic Yards of material.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Vehicle Trips - a

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	230.00	305.00
tblConstructionPhase	PhaseEndDate	2/9/2021	10/7/2022
tblConstructionPhase	PhaseEndDate	12/15/2020	8/12/2022
tblConstructionPhase	PhaseEndDate	1/28/2020	6/11/2021
tblConstructionPhase	PhaseEndDate	1/12/2021	9/9/2022
tblConstructionPhase	PhaseEndDate	12/31/2019	5/14/2021
tblConstructionPhase	PhaseStartDate	1/13/2021	9/10/2022
tblConstructionPhase	PhaseStartDate	1/29/2020	6/12/2021
tblConstructionPhase	PhaseStartDate	1/1/2020	5/15/2021
tblConstructionPhase	PhaseStartDate	12/16/2020	8/13/2022
tblConstructionPhase	PhaseStartDate	12/18/2019	5/3/2021
tblGrading	MaterialExported	0.00	8,500.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	528.75
tblSequestration	NumberOfNewTrees	0.00	54.00
tblTripsAndVMT	HaulingTripNumber	1,063.00	1,062.00
tblVehicleTrips	ST_TR	9.10	47.50
tblVehicleTrips	SU_TR	13.60	61.00
tblVehicleTrips	WD_TR	33.82	75.10

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					
2021	0.2256	2.1641	1.8429	4.4300e-003	0.2712	0.0930	0.3641	0.1144	0.0870	0.2014	0.0000	398.6669	398.6669	0.0637	0.0000	400.2590
2022	0.2939	1.7001	1.8318	4.1300e-003	0.1177	0.0725	0.1901	0.0317	0.0681	0.0998	0.0000	368.7875	368.7875	0.0580	0.0000	370.2369
Maximum	**0.2939**	**2.1641**	**1.8429**	**4.4300e-003**	**0.2712**	**0.0930**	**0.3641**	**0.1144**	**0.0870**	**0.2014**	**0.0000**	**398.6669**	**398.6669**	**0.0637**	**0.0000**	**400.2590**

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					
2021	0.2256	2.1641	1.8429	4.4300e-003	0.1758	0.0930	0.2688	0.0635	0.0870	0.1505	0.0000	398.6667	398.6667	0.0637	0.0000	400.2588
2022	0.2939	1.7001	1.8318	4.1300e-003	0.1177	0.0725	0.1901	0.0317	0.0681	0.0998	0.0000	368.7872	368.7872	0.0580	0.0000	370.2366
Maximum	**0.2939**	**2.1641**	**1.8429**	**4.4300e-003**	**0.1758**	**0.0930**	**0.2688**	**0.0635**	**0.0870**	**0.1505**	**0.0000**	**398.6667**	**398.6667**	**0.0637**	**0.0000**	**400.2588**

	ROG	**NOx**	**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**	**24.53**	**0.00**	**17.20**	**34.81**	**0.00**	**16.89**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
6	**2-20-2021**	**5-19-2021**	0.2639	0.2639
7	**5-20-2021**	**8-19-2021**	0.9302	0.9302
8	**8-20-2021**	**11-19-2021**	0.7928	0.7928
9	**11-20-2021**	**2-19-2022**	0.7530	0.7530
10	**2-20-2022**	**5-19-2022**	0.6944	0.6944
11	**5-20-2022**	**8-19-2022**	0.6933	0.6933
12	**8-20-2022**	**9-30-2022**	0.1813	0.1813
		Highest	0.9302	0.9302

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	0.0797	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	56.1626	56.1626	2.5500e-003	7.4000e-004	56.4473
Mobile	0.5916	3.2239	6.9842	0.0256	2.0950	0.0205	2.1155	0.5614	0.0191	0.5805	0.0000	2,367.5847	2,367.5847	0.1191	0.0000	2,370.5619
Waste						0.0000	0.0000		0.0000	0.0000	48.8985	0.0000	48.8985	2.8898	0.0000	121.1440
Water						0.0000	0.0000		0.0000	0.0000	0.7929	11.8872	12.6802	0.0821	2.0600e-003	15.3458
Total	**0.6728**	**3.2376**	**6.9963**	**0.0257**	**2.0950**	**0.0216**	**2.1165**	**0.5614**	**0.0202**	**0.5816**	**49.6914**	**2,435.6357**	**2,485.3271**	**3.0936**	**2.8000e-003**	**2,563.5002**

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	0.0797	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	56.1626	56.1626	2.5500e-003	7.4000e-004	56.4473
Mobile	0.5916	3.2239	6.9842	0.0256	2.0950	0.0205	2.1155	0.5614	0.0191	0.5805	0.0000	2,367.5847	2,367.5847	0.1191	0.0000	2,370.5619
Waste						0.0000	0.0000		0.0000	0.0000	48.8985	0.0000	48.8985	2.8898	0.0000	121.1440
Water						0.0000	0.0000		0.0000	0.0000	0.6344	10.0772	10.7115	0.0657	1.6500e-003	12.8467
Total	**0.6728**	**3.2376**	**6.9963**	**0.0257**	**2.0950**	**0.0216**	**2.1165**	**0.5614**	**0.0202**	**0.5816**	**49.5328**	**2,433.8256**	**2,483.3585**	**3.0772**	**2.3900e-003**	**2,561.0012**

	ROG	NOx	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**	**0.32**	**0.07**	**0.08**	**0.53**	**14.64**	**0.10**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	38.2320
Total	**38.2320**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/3/2021	5/14/2021	5	10	
2	Grading	Grading	5/15/2021	6/11/2021	5	20	
3	Building Construction	Building Construction	6/12/2021	8/12/2022	5	305	
4	Paving	Paving	8/13/2022	9/9/2022	5	20	
5	Architectural Coating	Architectural Coating	9/10/2022	10/7/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.83

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 23,220; Non-Residential Outdoor: 7,740; Striped Parking Area: 12,624 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,062.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	106.00	41.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607
Total	**3.8000e-004**	**2.8000e-004**	**3.1400e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8601**	**0.8601**	**2.0000e-005**	**0.0000**	**0.8607**

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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0352**	**0.0102**	**0.0455**	**0.0194**	**9.4000e-003**	**0.0288**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8601	0.8601	2.0000e-005	0.0000	0.8607
Total	**3.8000e-004**	**2.8000e-004**	**3.1400e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8601**	**0.8601**	**2.0000e-005**	**0.0000**	**0.8607**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0660	0.0000	0.0660	0.0338	0.0000	0.0338	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0660**	**0.0116**	**0.0776**	**0.0338**	**0.0107**	**0.0444**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2644**

3.3 Grading - 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	3.9000e-003	0.1384	0.0294	4.0000e-004	9.1300e-003	4.2000e-004	9.5500e-003	2.5100e-003	4.0000e-004	2.9100e-003	0.0000	39.6497	39.6497	2.7100e-003	0.0000	39.7176
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**4.5300e-003**	**0.1389**	**0.0346**	**4.2000e-004**	**0.0108**	**4.3000e-004**	**0.0112**	**2.9500e-003**	**4.1000e-004**	**3.3600e-003**	**0.0000**	**41.0832**	**41.0832**	**2.7500e-003**	**0.0000**	**41.1521**

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					0.0257	0.0000	0.0257	0.0132	0.0000	0.0132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0257**	**0.0116**	**0.0373**	**0.0132**	**0.0107**	**0.0238**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2643**

3.3 Grading - 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	3.9000e-003	0.1384	0.0294	4.0000e-004	9.1300e-003	4.2000e-004	9.5500e-003	2.5100e-003	4.0000e-004	2.9100e-003	0.0000	39.6497	39.6497	2.7100e-003	0.0000	39.7176
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**4.5300e-003**	**0.1389**	**0.0346**	**4.2000e-004**	**0.0108**	**4.3000e-004**	**0.0112**	**2.9500e-003**	**4.1000e-004**	**3.3600e-003**	**0.0000**	**41.0832**	**41.0832**	**2.7500e-003**	**0.0000**	**41.1521**

3.4 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	0.1378	1.2638	1.2017	1.9500e-003		0.0695	0.0695		0.0653	0.0653	0.0000	167.9370	167.9370	0.0405	0.0000	168.9499
Total	**0.1378**	**1.2638**	**1.2017**	**1.9500e-003**		**0.0695**	**0.0695**		**0.0653**	**0.0653**	**0.0000**	**167.9370**	**167.9370**	**0.0405**	**0.0000**	**168.9499**

3.4 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	8.4600e-003	0.2876	0.0713	7.5000e-004	0.0187	5.8000e-004	0.0193	5.4100e-003	5.5000e-004	5.9600e-003	0.0000	72.5726	72.5726	4.5900e-003	0.0000	72.6873
Worker	0.0320	0.0237	0.2678	8.1000e-004	0.0843	6.3000e-004	0.0850	0.0224	5.8000e-004	0.0230	0.0000	73.4425	73.4425	1.9700e-003	0.0000	73.4917
Total	**0.0405**	**0.3113**	**0.3391**	**1.5600e-003**	**0.1031**	**1.2100e-003**	**0.1043**	**0.0278**	**1.1300e-003**	**0.0289**	**0.0000**	**146.0150**	**146.0150**	**6.5600e-003**	**0.0000**	**146.1790**

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	0.1378	1.2638	1.2017	1.9500e-003		0.0695	0.0695		0.0653	0.0653	0.0000	167.9368	167.9368	0.0405	0.0000	168.9497
Total	**0.1378**	**1.2638**	**1.2017**	**1.9500e-003**		**0.0695**	**0.0695**		**0.0653**	**0.0653**	**0.0000**	**167.9368**	**167.9368**	**0.0405**	**0.0000**	**168.9497**

3.4 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	8.4600e-003	0.2876	0.0713	7.5000e-004	0.0187	5.8000e-004	0.0193	5.4100e-003	5.5000e-004	5.9600e-003	0.0000	72.5726	72.5726	4.5900e-003	0.0000	72.6873
Worker	0.0320	0.0237	0.2678	8.1000e-004	0.0843	6.3000e-004	0.0850	0.0224	5.8000e-004	0.0230	0.0000	73.4425	73.4425	1.9700e-003	0.0000	73.4917
Total	**0.0405**	**0.3113**	**0.3391**	**1.5600e-003**	**0.1031**	**1.2100e-003**	**0.1043**	**0.0278**	**1.1300e-003**	**0.0289**	**0.0000**	**146.0150**	**146.0150**	**6.5600e-003**	**0.0000**	**146.1790**

3.4 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	0.1365	1.2493	1.3091	2.1500e-003		0.0647	0.0647		0.0609	0.0609	0.0000	185.3802	185.3802	0.0444	0.0000	186.4905
Total	**0.1365**	**1.2493**	**1.3091**	**2.1500e-003**		**0.0647**	**0.0647**		**0.0609**	**0.0609**	**0.0000**	**185.3802**	**185.3802**	**0.0444**	**0.0000**	**186.4905**

3.4 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	8.7500e-003	0.3009	0.0744	8.2000e-004	0.0207	5.5000e-004	0.0212	5.9700e-003	5.3000e-004	6.4900e-003	0.0000	79.3750	79.3750	4.8700e-003	0.0000	79.4968
Worker	0.0332	0.0236	0.2729	8.6000e-004	0.0930	6.8000e-004	0.0937	0.0247	6.2000e-004	0.0253	0.0000	78.1345	78.1345	1.9600e-003	0.0000	78.1835
Total	**0.0419**	**0.3245**	**0.3472**	**1.6800e-003**	**0.1137**	**1.2300e-003**	**0.1149**	**0.0307**	**1.1500e-003**	**0.0318**	**0.0000**	**157.5095**	**157.5095**	**6.8300e-003**	**0.0000**	**157.6804**

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	0.1365	1.2493	1.3091	2.1500e-003		0.0647	0.0647		0.0609	0.0609	0.0000	185.3800	185.3800	0.0444	0.0000	186.4903
Total	**0.1365**	**1.2493**	**1.3091**	**2.1500e-003**		**0.0647**	**0.0647**		**0.0609**	**0.0609**	**0.0000**	**185.3800**	**185.3800**	**0.0444**	**0.0000**	**186.4903**

3.4 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	8.7500e-003	0.3009	0.0744	8.2000e-004	0.0207	5.5000e-004	0.0212	5.9700e-003	5.3000e-004	6.4900e-003	0.0000	79.3750	79.3750	4.8700e-003	0.0000	79.4968
Worker	0.0332	0.0236	0.2729	8.6000e-004	0.0930	6.8000e-004	0.0937	0.0247	6.2000e-004	0.0253	0.0000	78.1345	78.1345	1.9600e-003	0.0000	78.1835
Total	**0.0419**	**0.3245**	**0.3472**	**1.6800e-003**	**0.1137**	**1.2300e-003**	**0.1149**	**0.0307**	**1.1500e-003**	**0.0318**	**0.0000**	**157.5095**	**157.5095**	**6.8300e-003**	**0.0000**	**157.6804**

3.5 Paving - 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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830
Total	**5.9000e-004**	**4.2000e-004**	**4.8300e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3821**	**1.3821**	**3.0000e-005**	**0.0000**	**1.3830**

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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.5 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.2000e-004	4.8300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3821	1.3821	3.0000e-005	0.0000	1.3830
Total	**5.9000e-004**	**4.2000e-004**	**4.8300e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.3821**	**1.3821**	**3.0000e-005**	**0.0000**	**1.3830**

3.6 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	0.1010					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	**0.1031**	**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**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	5.8000e-004	6.7600e-003	2.0000e-005	2.3000e-003	2.0000e-005	2.3200e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	1.9349	1.9349	5.0000e-005	0.0000	1.9362
Total	**8.2000e-004**	**5.8000e-004**	**6.7600e-003**	**2.0000e-005**	**2.3000e-003**	**2.0000e-005**	**2.3200e-003**	**6.1000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**1.9349**	**1.9349**	**5.0000e-005**	**0.0000**	**1.9362**

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	0.1010					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	**0.1031**	**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**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	5.8000e-004	6.7600e-003	2.0000e-005	2.3000e-003	2.0000e-005	2.3200e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	1.9349	1.9349	5.0000e-005	0.0000	1.9362
Total	**8.2000e-004**	**5.8000e-004**	**6.7600e-003**	**2.0000e-005**	**2.3000e-003**	**2.0000e-005**	**2.3200e-003**	**6.1000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**1.9349**	**1.9349**	**5.0000e-005**	**0.0000**	**1.9362**

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	0.5916	3.2239	6.9842	0.0256	2.0950	0.0205	2.1155	0.5614	0.0191	0.5805	0.0000	2,367.5847	2,367.5847	0.1191	0.0000	2,370.5619
Unmitigated	0.5916	3.2239	6.9842	0.0256	2.0950	0.0205	2.1155	0.5614	0.0191	0.5805	0.0000	2,367.5847	2,367.5847	0.1191	0.0000	2,370.5619

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	509.76	323.07	413.78	1,003,887	1,003,887
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	2,011.10	1,272.00	1633.52	4,509,537	4,509,537
Total	2,520.86	1,595.07	2,047.30	5,513,424	5,513,424

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
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Other Non-Asphalt Surfaces	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896
Recreational Swimming Pool	0.549559	0.042893	0.201564	0.118533	0.015569	0.005846	0.021394	0.034255	0.002099	0.001828	0.004855	0.000709	0.000896

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	41.2107	41.2107	2.2600e-003	4.7000e-004	41.4066
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.2107	41.2107	2.2600e-003	4.7000e-004	41.4066
NaturalGas Mitigated	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	14.9519	14.9519	2.9000e-004	2.7000e-004	15.0408
NaturalGas Unmitigated	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	14.9519	14.9519	2.9000e-004	2.7000e-004	15.0408

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					
Health Club	280188	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	14.9519	14.9519	2.9000e-004	2.7000e-004	15.0408
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
Recreational Swimming Pool	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
Total		**1.5100e-003**	**0.0137**	**0.0115**	**8.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**14.9519**	**14.9519**	**2.9000e-004**	**2.7000e-004**	**15.0408**

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					
Health Club	280188	1.5100e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	14.9519	14.9519	2.9000e-004	2.7000e-004	15.0408
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
Recreational Swimming Pool	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
Total		**1.5100e-003**	**0.0137**	**0.0115**	**8.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**14.9519**	**14.9519**	**2.9000e-004**	**2.7000e-004**	**15.0408**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	171828	41.2107	2.2600e-003	4.7000e-004	41.4066
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**41.2107**	**2.2600e-003**	**4.7000e-004**	**41.4066**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Health Club	171828	41.2107	2.2600e-003	4.7000e-004	41.4066
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**41.2107**	**2.2600e-003**	**4.7000e-004**	**41.4066**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0797	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Unmitigated	0.0797	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-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	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Total	**0.0797**	**1.0000e-005**	**6.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1700e-003**	**1.1700e-003**	**0.0000**	**0.0000**	**1.2500e-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	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Total	**0.0797**	**1.0000e-005**	**6.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.1700e-003**	**1.1700e-003**	**0.0000**	**0.0000**	**1.2500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.7115	0.0657	1.6500e-003	12.8467
Unmitigated	12.6802	0.0821	2.0600e-003	15.3458

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.915536 / 0.561135	4.6448	0.0301	7.5000e-004	5.6212
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1.58385 / 0.970749	8.0354	0.0520	1.3000e-003	9.7246
Total		**12.6802**	**0.0821**	**2.0500e-003**	**15.3458**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Health Club	0.732429 / 0.526906	3.9237	0.0241	6.1000e-004	4.7058
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	1.26708 / 0.911533	6.7878	0.0416	1.0500e-003	8.1409
Total		**10.7115**	**0.0657**	**1.6600e-003**	**12.8467**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	48.8985	2.8898	0.0000	121.1440
Unmitigated	48.8985	2.8898	0.0000	121.1440

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	88.24	17.9119	1.0586	0.0000	44.3760
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	152.65	30.9866	1.8313	0.0000	76.7679
Total		**48.8985**	**2.8898**	**0.0000**	**121.1440**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Health Club	88.24	17.9119	1.0586	0.0000	44.3760
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	152.65	30.9866	1.8313	0.0000	76.7679
Total		**48.8985**	**2.8898**	**0.0000**	**121.1440**

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	38.2320	0.0000	0.0000	38.2320

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	54	38.2320	0.0000	0.0000	38.2320
Total		**38.2320**	**0.0000**	**0.0000**	**38.2320**