



TABLE OF APPLICABLE MITIGATION MEASURES

Mitigation Measure	Implementation	Timing	Reviewing Party	Documents to be Submitted to City	Staff Use Only
<p>2004 WRSP EIR MM 4.4-3: Reduction of Construction Emissions</p> <p>The prime contractor shall submit to the PCAPCD a comprehensive inventory (i.e., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower or greater) that will be used an aggregate of 40 or more hours for the construction project. District personnel, with assistance from the California Air Resources Board, will conduct initial Visible Emission Evaluations of all heavy-duty equipment on the inventory list.</p> <ul style="list-style-type: none"> <input type="checkbox"/> An enforcement plan shall be established by the contractor in conjunction with the air district to weekly evaluate project-related on-and-off- road heavy-duty vehicle engine emission opacities, using standards as defined in California Code of Regulations, Title 13, Sections 2180–2194. An Environmental Coordinator, CARB-certified to perform Visible Emissions Evaluations (VEE), shall routinely evaluate project related off-road and heavy-duty on-road equipment emissions for compliance with this requirement. Operators of vehicles and equipment found to exceed opacity limits will be notified and the equipment must be repaired within 72 hours. <input type="checkbox"/> Contractors shall provide a plan for approval by the PCAPCD demonstrating that the heavy-duty (>50 horsepower) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project-wide fleet average 30 percent NOx reduction and 45 percent particulate reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. <input type="checkbox"/> Minimize idling time to 10 minutes. <input type="checkbox"/> Use low sulfur fuel for stationary construction equipment, if feasible. <input type="checkbox"/> Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary power generators. <input type="checkbox"/> Use low emission on-site stationary equipment. 	<p>The applicants shall submit the required plans as part of the Grading Permit or Improvement Plan application.</p> <p>Engineering will review plans for inclusion of these measures prior to issuance of permits or approval of plans.</p>	<p><i>Pre-Construction:</i> Prior to issuance of Grading Permits or Improvement Plans.</p> <p>Add as note on Improvement Plans.</p>	Engineering	Required plans and proof of submittal to PCAPCD	
<p>2004 WRSP EIR MM 4.5-1: Construction noise reduction</p> <p>As discussed under Impact 4.5-1, compliance with the City’s Noise Ordinance would result in a less-than-significant impact for construction noise. However, the following measures are recommended to further reduce the effects of construction noise on residents.</p> <p>Equipment warm-up areas, water tanks, and equipment storage areas shall be located a minimum of 150 feet from occupied residences, where feasible.</p> <p>Flexible sound control curtains shall be placed around drilling apparatus and drill rigs, if sensitive receptors are located nearby.</p> <p>These measures would reduce the amount of noise at residences by placing stationary sources of noise far enough from residences that the noise generated would not be disturbing, particularly during the daytime, when construction activities would occur. In addition, they would assist in reducing the potential for noise disturbances and potential noise-related complaints.</p>	Project plans will be reviewed for compliance.	<p><i>Pre-Construction:</i> Prior to issuance of Improvement Plans and/or Building Permits.</p> <p>Add as note on Improvement Plans and Building Plans</p>	Engineering and Building	None	
<p>2004 WRSP EIR MM 4.5-3: Commercial noise control</p> <p>For all commercial uses within 150 feet of residential uses, implement the following or equally effective measures:</p> <p>(a) For commercial loading docks and on-site truck circulation areas that are planned to be within 150 feet of sensitive receptors (including backyards), the following measures shall be implemented:</p>	Project plans will be reviewed for compliance.	<p><i>Pre-Construction:</i> Prior to issuance of Improvement Plans and/or Building Permits</p> <p>Add as note on Improvement Plans and Building Plans</p>	Engineering will review Improvement Plans for compliance with wall and noise requirements. Building will review Building Plans for	An Acoustical Study	

<p>(1) Loading docks and on-site truck circulation routes shall be designed to ensure that noise levels do not exceed 70 dB Lmax or 50 dB hourly Leq at the nearest residence. An acoustic analysis shall demonstrate that the loading area design, including any noise attenuation features (e.g., covering, sound walls, orientation) would be adequate to achieve this standard; and,</p> <p>(2) Deliveries shall generally be limited to the hours between 7:00 A.M. and 10:00 P.M.</p> <p>(b) For all commercial buildings, roof-top HVAC shall be oriented away from residential areas and systems shall not produce noise levels that exceed 50 dB at a distance of 25 feet. In addition, roof-top parapets shall block line-of-sight from noise-sensitive uses to HVAC equipment.</p> <p>(c) Setbacks or enhanced barriers (e.g., 8 feet tall) as needed to achieve City standards. An acoustical analysis shall be conducted to demonstrate that City noise standards would be achieved by these measures. Additional measures shall be implemented, if needed, to meet the standards.</p>			compliance with HVAC requirements.		
<p>2004 WRSP EIR MM 4.8-1: Cease Work and Consult with Qualified Archaeologist</p> <p>Should any cultural resources, such as structural features, any amount of bone or shell, artifacts, human remains, or architectural remains be encountered during any subsurface development activities, work shall be suspended within 100 feet of the find, and the City of Roseville shall be immediately notified. At that time, the City shall coordinate any necessary investigation of the site with qualified archaeologists as needed to assess the resource and provide proper management recommendations. Possible management recommendations for important resources could include resource avoidance or data recovery excavations. The contractor shall implement any measures deemed necessary for the protection of the cultural resources. In addition, pursuant to section 5097.98 of the State Public Resources Code, and section 7050.5 of the State Health and Safety Code, in the event of the discovery of human remains, the County Coroner shall be immediately notified. If the remains are determined to be Native American, guidelines of the Native American Heritage Commission shall be adhered to in the treatment and disposition of the remains.</p>	This condition shall be reflected in all construction and building plans, and construction site workers shall be advised by the site manager of this measure.	<p><i>Construction:</i> Measure applies if resources are discovered during construction.</p> <p>Add as note on Improvement Plans and Building Plans.</p>	Engineering and Building	None	
<p>2004 WRSP EIR MM 4.8-10: Cease Work Until Review Conducted by Qualified Paleontologist and Recommendations Implemented</p> <p>Should any evidence of paleontological resources (e.g., fossils) be encountered during grading or excavation, work shall be suspended within 100 feet of the find, and the City of Roseville shall be immediately notified. At that time, the City shall coordinate any necessary investigation of the site with a qualified paleontologist to assess the resource and provide proper management recommendations. Possible management recommendations for important resources could include resource avoidance or data recovery excavations. The contractor shall implement any measures deemed necessary by the paleontologist for the protection of the paleontological resources.</p>	This condition shall be reflected in all construction and building plans, and construction site workers shall be advised by the site manager of this measure.	<p><i>Construction:</i> Measure applies if resources are discovered during construction.</p> <p>Add as note on Improvement Plans and Building Plans.</p>	Engineering and Building	None	
<p>2004 WRSP EIR MM 4.13-1(c): Use Low-Glare Materials for New Development</p> <p>In order to reduce the effects of daytime glare from development of commercial, office, and industrial uses within the WRSP, building developers shall make use, when feasible, of low-glare materials.</p>	Comply with the measure	<p><i>Pre-Construction:</i> Ensure fixtures shown on Building Plans comply with the measure.</p> <p>Add as note on Building Plans</p>	Building	None	
<p>2014 SPA3 SEIR MM 7.1: Generate Construction Related Emissions That Conflict with the Air Quality Plan or Violate Air Quality Standards</p> <p>7.1a: Each prime contractor for future construction projects within the proposed Fiddyment Ranch Specific Plan Amendment 3 project shall prepare a construction dust control plan for approval by the Placer County APCD prior to any ground disturbance. This plan shall address the minimum Administrative Requirements found in Section 400 of District Rule 228, Fugitive Dust (www.placer.ca.gov/airpollution/airpolut.htm). Specific required components of the dust control plan include the following:</p> <p>A. Control dust and prevent dirt from going offsite. Apply water to control dust as needed to prevent dust impacts off site. Operational water truck(s) shall be on site as required to control dust. Construction vehicles leaving the site shall be cleaned to prevent dust,</p>	7.1a: Each prime contractor for future construction projects within the project area shall be responsible for preparing a construction dust control plan that meets the standards established in Mitigation Measure 7.1a. The Placer County APCD shall be responsible for reviewing and approving dust control plans. Prime contractors shall be responsible for implementing the approved dust control plan.	<p>7.1a <i>Pre-Construction and Construction:</i> The dust control plan shall be approved prior to issuance of grading permits and implemented throughout the entire duration of constructions.</p> <p>7.1b <i>Pre-Construction:</i> Prior to approval of grading or improvement plans, whichever occurs first</p>	Engineering	<p>7.1a Dust Control Plan, approved by PCAPCD</p> <p>7.1b Construction equipment list, construction timeline, and Construction Emissions Mitigation calculator, approved by PCAPCD</p>	

<p>silt, mud, and dirt from being released or tracked offsite. This includes the use of tarpaulins for haul trucks which travel on public streets.</p> <p>B. Cover all trucks delivering or exporting soil, sand, or other loose materials or ensure that all trucks hauling such materials maintain at least two feet of freeboard.</p> <p>C. Suspend grading operations when wind is sufficient to generate visible dust clouds, generally when wind speeds are greater than 20 miles per hour (mph) average during an hour.</p> <p>D. Pave, use gravel cover, or spray a dust control agent on all haul roads.</p> <p>E. Install sandbags or other erosion control measures to prevent silt runoff onto public roadways.</p> <p>F. Provide graveled, paved, or grass-covered areas for construction employee vehicle parking.</p> <p>G. Institute measures to reduce wind erosion when site preparation is completed.</p> <p>H. Control dust from inactive areas. Apply approved chemical soil stabilizers, vegetative mats, or other appropriate best management practices to manufacturer's specifications, to all-inactive construction areas (previously graded areas which remain inactive for 96 hours).</p> <p>I. Control dust on unpaved roads and adjacent public thoroughfares. Spread soil binders on unpaved roads and employee/equipment parking areas and wet broom or wash streets if silt is carried over to adjacent public thoroughfares. Reduce speeds on unpaved roads to 15 mph or lower (this speed must be posted).</p> <p>J. Immediately following any mass grading phase, the following dust control measures shall be implemented:</p> <ul style="list-style-type: none"> • Apply soil stabilizers or commence reestablishing ground cover to construction areas within 96 hours of completing grading activities; • Develop and implement a wind erosion monitoring program for areas which will remain inactive for extended period; this program should at a minimum provide for weekly monitoring of inactive sites to assess the effectiveness of wind erosion controls. <p>7.1b: Each prime contractor for future construction projects within the proposed Fiddymet Ranch Specific Plan Amendment 3 project shall provide a list of construction equipment and anticipated construction timeline for approval by PCAPCD. The prime contractor for each construction project shall submit to the District a comprehensive inventory (i.e., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower or greater) that will be used an aggregate of 40 or more hours for the construction project. The construction timeline shall demonstrate that between May and October, the number of vehicles and equipment operating at the same time is minimized. Each prime contractor for future construction projects within the proposed Fiddymet Ranch Specific Plan Amendment 3 project shall also provide a plan for approval by the District demonstrating that the heavy-duty (greater than 50 horsepower) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20 percent NOx reduction and 45 percent particulate reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. To verify that the required reduction has been achieved, the project applicant or prime contractor shall complete the Sacramento Metropolitan Air Quality Management District's Construction Mitigation Calculator, which shall be submitted to Placer County APCD for review and verification. The Contraction Mitigation Calculator is available at the Sacramento Metropolitan Air Quality Management District's website:</p> <p>http://www.airquality.org/ceqa/mitigation.shtml#construction</p>	<p>7.1b: Using the Construction Emissions Mitigation calculator, the applicant shall be responsible for providing written calculations demonstrating that heavy-duty off-road vehicles used in construction achieve a project-wide fleet average of 20 percent of NOx reduction and 45 percent particulate reduction as compared to CARB's current year statewide fleet average emissions.</p>				
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<p>2014 SPA3 SEIR MM 7.2b: Generate Emissions During Project Operation That Conflict with the Air Quality Plan or Violate Air Quality Standards</p> <p>7.2b: Prior to issuance of building permits, the project applicant shall implement one or more of the following mitigation strategies. The mitigation shall be sufficient to offset the amount of summertime project operation emissions of ROG and NOx from one ozone season that exceed 10 pounds per day. The estimated amount that the mitigation must be sufficient to offset is 348.19 pounds per day of ROG and 147.89 pounds per day of NOx, a total of 296.08 pounds per day for a 182-day period (summer days).</p> <p>A. Establish mitigation offsite within west Placer County by participating in an offsite mitigation program, coordinated through the Placer County Air Pollution Control District. Examples include, but are not limited to participation in a “biomass” program that provides emissions benefits; retrofitting, repowering, or replacing heavy duty engines from mobile sources (i.e. busses, construction equipment, road haulers); or other program that the project proponent may propose to reduce emissions.</p> <p>B. Participate in the Placer County Air Pollution Control District Offsite Mitigation Program by paying the equivalent amount of money, which is equal to the project’s contribution of pollutants (ROG and NOx) in excess of the cumulative threshold of 10 pounds per day during summertime. The payment shall be based on the established fee of \$17,080 per ton and shall be calculated based on a single year of summertime emissions (182-days). The actual amount to be paid shall be determined, and satisfied pursuant to current California Air Resource Board guidelines at the time of building permit issuance.</p>	<p>7.2b: the project applicant shall be responsible for implementing one or more of the mitigation strategies set forth in Mitigation Measure 7.2b.</p>	<p>7.2b <i>Pre-Construction</i>: prior to issuance of building permits</p>	<p>Development Services</p>		
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NOTE: This table is provided as a courtesy to the developer, to highlight the text of measures which are required to be placed on Improvement Plans and/or Building Plans. Refer to the applicable environmental document (e.g. Environmental Impact Report) for a full list of measures, and for context. Other measures may be applicable, but are not included here because they have already been completed or they are addressed via other mechanisms (e.g. development fees).