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CONSTRUCTION PRACTICES FOR STORMWATER POLLUTION PREVENTION

The project sponsor shall implement effective construction site best management practices (BMPs). The intent of these required BMPs is to reduce pollutants in stormwater runoff from construction sites to the maximum extent practicable in accordance with the City of Lafayette Joint Municipal National Pollutant Discharge Elimination (NPDES) Permit. Construction activities include, but are not limited to: grading, dewatering operations; roadwork and paving operations; concrete operations; structure construction and painting; construction material storage and handling; construction waste/debris storage and disposal; and, construction equipment/vehicle cleaning, maintenance and fueling operations. The required BMPs include activity scheduling, prohibition of certain practices, good site housekeeping practices, certain operational practices, pollution prevention practices, maintenance procedures, and other management procedures to prevent the discharge of pollutants directly or indirectly to the storm drain system. The California Stormwater Best Management Practice Handbook – Construction Activity provides guidance on selecting and implementing effective construction site BMPs.

At a minimum, the project sponsor shall implement the following construction site best management practices (BMPs):

- A. Contractor/Subcontractor Training and Awareness: The project sponsor shall train and inform all contractors/subcontractors of these required construction site BMPs. Appropriate requirements shall be included in contract and subcontract provisions to ensure that these requirements are met.
- B. Material Management: The project sponsor shall propose designated areas of the project site, suitable for material delivery and storage that are near construction entrances and away from catch basins, gutters, and creeks. Designated areas shall be subject to approval by the Lamorinda grading inspector for private projects and by the Lafayette city engineer for public projects. Storage and exposure of raw materials, by-products, finished products, and containers shall be controlled as described below:
 - i) *Granular Material*: The project sponsor shall store granular material at least ten feet away from catch basin and curb returns and at least 20 feet from natural creeks or channels. Granular material shall not be allowed to enter the storm drains or creeks. When rain is forecast within 24 hours or during wet weather, the project sponsor may be required to cover granular material with a tarpaulin and to surround the material with sand bags.

ii) *Wet Weather*: During wet weather or when rain is forecasted, the project sponsor shall store inside a building all materials that can contaminate rainwater or be transported by stormwater or other runoff to the storm drain system. As an alternate, the materials can be covered with a tarp or other waterproof material secured with weighted tires or sandbags to prevent contact with rain.

iii) *Recycling*: The project sponsor shall reuse or recycle, to the maximum extent practicable, construction materials generated during the project or shall comply with the city's construction and demolition debris recycling provisions¹ if applicable.

C. Waste Management: The project sponsor shall propose designated areas of the project site suitable for waste collection that, to the maximum extent practicable, are near construction entrances and away from catch basins, gutters, and creeks. Waste collection sites shall be subject to approval by the Lamorinda grading inspector for private projects and by the Lafayette city engineer for public projects.

i) *Street Sweeping*: At the end of each working day or as otherwise directed by Lafayette staff, the project sponsor shall clean and sweep roadways and on-site paved areas of all materials attributed to or involved in the work. Water shall not be used to flush down streets in place of street sweeping.

ii) *Disposal*: At the end of each working day, the project sponsor shall collect all scrap, debris, and waste material, and dispose of such materials properly. The project sponsor shall reuse or recycle, to the maximum extent practicable, construction waste materials generated during the project or shall comply with the city's construction and demolition debris recycling provisions if applicable.

iii) *Waste Containers*: The project sponsor shall arrange for regular waste collection before dumpsters overflow.

D. Vehicle and Equipment Management:

i) *Cleaning*: The project sponsor shall not perform vehicle or equipment cleaning on site or in the street using soaps, solvents, degreasers, steam cleaning equipment, or equivalent methods. Vehicle and equipment cleaning shall be performed with water only, in a designated, bermed area that will not allow rinse water to run off site or into streets, gutters, storm drains, or creeks.

ii) *Maintenance and Fueling*: The project sponsor shall perform maintenance and fueling of vehicles and equipment in a designated, bermed area or over a drip pan that will not allow run-on of stormwater or runoff of spills. Secondary containment, such as a drip pan, to catch leaks or spills shall be used any time that vehicle or equipment fluids are dispensed, changed, or poured. The project sponsor shall comply with Federal, State, and City of Lafayette requirements for aboveground storage tanks.

¹ Chapter 5-6, Lafayette Municipal Code
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iii) *Spills*: Spill cleanup materials, such as rags or absorbents, shall be readily accessible on site. Clean up of leaks and spills of vehicle or equipment fluids shall be conducted immediately. Waste and cleanup materials shall be disposed of as hazardous waste. Any spilled material shall not be washed into streets, gutters, storm drains, or creeks. Vehicles and equipment arriving on site shall be inspected for leaking fluids and shall be promptly repaired. Drip pans shall be used to catch leaks until repairs are made.

iv) *Fluid Wastes*: The project sponsor shall recycle waste oil and antifreeze, to the maximum extent practicable. The project sponsor shall comply with Federal, State, and City of Lafayette requirements for aboveground storage tanks.

E. Painting: The project sponsor shall conduct cleaning of painting equipment and tools in a designated area that will not allow run-on of stormwater or runoff of spills into the storm drain system. Wash water from cleaning of painting equipment and tools shall not be discharged into streets, gutters, storm drains, or creeks.

i) *Water-based Paint*: For water-based paint, the project sponsor shall remove as much excess paint as possible from brushes, rollers, and equipment before starting cleanup. To the maximum extent practicable, the discharge of wash water from aqueous cleaning of equipment and tools shall be to the sanitary sewer. Otherwise, the wash water shall be directed onto a dirt area and spaded in.

ii) *Oil-Based Paint*: For oil-based paint, the project sponsor shall remove as much excess paint as possible from brushes, rollers, and equipment before starting cleanup. To the maximum extent practicable, the project sponsor shall filter paint thinner and solvents for reuse. The project sponsor shall properly dispose of waste thinner, solvent, and sludge as hazardous waste.

F. Concrete Operations: Concrete truck and equipment wash-out waters shall not be discharged into streets, gutters, storm drains, or creeks. The wash out of concrete trucks and equipment shall be performed off-site or in a designated area on site where the water will flow onto dirt or into a temporary pit in a dirt area. The water shall be allowed to percolate into the soil and the hardened concrete disposed of in a trash container. If a suitable dirt area is not available, then the project sponsor shall collect the wash water and remove it off site.

The project sponsor shall dispose of wastewater from washing of exposed aggregate to a dirt area. If a suitable dirt area is not available, then the project sponsor shall filter the wash water through straw bales or equivalent material before discharging to the storm drain. The project sponsor shall collect and return sweepings from exposed aggregate concrete to a stockpile or dispose of in a trash container.

G. Dewatering Operations: The project sponsor shall route water through a control measure, such as a sediment basin, or Baker tank, to remove settleable solids prior to discharge to the storm drain system. Approval of the control measure shall be obtained in advance from the Lamorinda grading inspector for private projects and from the Lafayette city engineer for public projects. Filtration of the water following the control measure may be required on a case-by-case basis. If Lafayette staff determines that the dewatering operation would not generate an appreciable amount of settleable solids, the control measure requirement may be

waived. The project sponsor shall reuse water for other needs, such as dust control or irrigation, to the maximum extent practicable.

- H. Paving Operations: When rain is forecast within 24 hours or during wet weather, Lafayette staff may prevent the project sponsor from paving. The project sponsor may be directed to protect drainage courses by using control measures, such as earth dikes, straw bales, and sand bags, to divert runoff or trap and filter sediment. The project sponsor shall cover catch basins and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal. If the paving operation includes an on-site mixing plant, the project sponsor shall comply with the State General Industrial Activity Permit requirements. The project sponsor shall not sweep or wash down excess sand (placed as part of a sand seal or to absorb excess oil) into gutters, storm drains, drainage courses, or creeks. Instead, the project sponsor shall either collect the sand and return it to the stockpile, or dispose of it in a trash container. The project sponsor shall not use water to wash down fresh asphalt concrete pavement.
- I. Saw Cutting: During saw cutting, the project sponsor shall cover or barricade catch basins using control measures, such as filter fabric, straw bales, sand bags, and fine gravel dams, to keep slurry out of the storm drain system. When protecting a catch basin, the project sponsor shall ensure that the entire opening is covered. The project sponsor shall shovel, absorb, or vacuum saw cut slurry and pick up the waste prior to moving to the next location or at the end of each working day, whichever is sooner. If saw cut slurry enters catch basins, the project sponsor shall remove the slurry from the storm drain system immediately.