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 CIVIL - SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS, INC.
 1705 S. WINCHESTER BLVD., SUITE 200, CAMPBELL, CA 95008
 T. 408-836-0000
 TRANSPORTATION ENGINEERING - ARUP NORTH AMERICA, LTD.
 80 MISSION STREET, SUITE 700 SAN FRANCISCO CA 94105
 T. 415-997-9445
 LIGHTING - ONE LUX STUDIO
 158 WEST 29TH STREET, 10TH FLOOR, NEW YORK, NY 10011
 T. 212-303-9790
 SIGNAGE - EXIT
 1817 JFK BLVD, SUITE 1665, PHILADELPHIA, PA 19103
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 PARKING ENGINEERING - WATRY DESIGN, INC.
 2096 GATEWAY PLACE, SUITE 550, SAN JOSE, CA 95110
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 WASTE MANAGEMENT - CMLITTLE INTERNATIONAL
 535 NORTH BRAN BLVD, STE 710 GLENDALE, CA 91203
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In the Santa Clara Valley, storm drains flow directly to our local creeks, and on to San Francisco Bay, with no treatment.
 Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or baylands.
 Proper management of construction sites reduces pollution significantly.
 This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution prevention.

General Construction and Site Supervision

Storm Drain Pollution from Construction Activities
 Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay.
 As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

- General Principles**
- Keep an orderly site and ensure good housekeeping practices are used.
 - Maintain equipment properly.
 - Cover materials when they are not in use.
 - Keep materials away from streets, storm drains and drainage channels.
 - Ensure dust control water doesn't leave site or discharge to storm drains.
- Advance Planning To Prevent Pollution**
- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Manual, available from the Regional Water Quality Control Board, as a reference.
 - Control the amount of runoff causing your site (especially during excavation) by using berms of temporary or permanent change ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
 - Train your employees and subcontractors. The city can provide brochures about these issues for you to distribute to workers at your construction site. Inform your subcontractors about the stormwater requirements and their own responsibilities. Use Blueprint for a Clean Bay, a construction best management practices guide available at our Building Dept. counter.

ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION PREVENTION & WATERCOURSE PROTECTION: Chapter 9.18

9.18.040 Discharge into the storm drain prohibited
 It is unlawful to cause, allow, or permit to be discharged, any discharge not composed entirely of stormwater to the storm drain system or to surface waters or to any location where it would contact or eventually be transported to surface waters, including flood plain areas, unless specifically called out in the Municipal Regional Permit as an exempt or conditionally exempt discharge.

9.18.070 Accidental Discharge
 All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

9.18.220 Violation*
 Any person who violates any provision of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of the City of Cupertino Municipal Code.

Chapter 1.12: General Penalty, Section 1.12.010, paragraph D, states*:

Unless otherwise specified by this code, an infraction is punishable by:

- A fine not to exceed \$100 for a first violation
- A fine not to exceed \$200 for a second violation
- A fine not to exceed \$500 for a third violation of the same chapter within one year.

9.18.240 Civil penalty for illicit discharges*
 Any person who discharges pollutants, in violation of this Chapter, by the use of illicit connections shall be civilly liable to the City in a sum not to exceed twenty-five thousand dollars per day per violation for each day in which such violation occurs.

*Excerpts - For complete CODE language refer to the City of Cupertino Municipal Code.

Painting and Application of Solvents and Adhesives

Storm Drain Pollution from Paints, Solvents, and Adhesives
 All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

- Handling Paint Products**
- Keep all liquid paint products and wastes away from the gutter, street, and storm drains.

- Painting Cleanup**
- Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or creek.
 - For water-based paints, paint out brushes to the extent possible, and rinse into an inside sink drain that goes to the sanitary sewer.
 - For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and solvents, where possible. Dispose of excess liquids and residue as hazardous waste.
 - When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage.

Cupertino Building Dept:
 408-777-3228
Public Works Dept:
 408-777-3354

Santa Clara County Recycling Hotline:
 800-533-8414
www.sccwa.org
www.recyclinginfo.com
Small Business Hazardous Waste:
 408-299-7300

Cupertino Sanitary Sewer Distr:
 408-253-7071

Santa Clara Valley Urban Runoff Pollution Prevention Prgm:
 800-784-2482

State Office of Emergency Services:
 1-800-852-7555 (24 hrs)
Report spills to 911

Landscaping, Gardening, and Pool Maintenance

Landscaping/Garden Maintenance

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains.
- Protect storm drains with sandbags, gravel-filled bags, straw wattles, or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.
- Store pesticides, fertilizers, and other chemical products in a shed or storage cabinet.
- Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinsewater as a product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- In Cupertino, residents with curbside recycling can collect lawn, garden and tree trimmings in yardwaste totes. Yardwaste will be collected and composted by the city's contractor. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- Landscaping contractors should take clippings and pruning waste to a landfill that composts yard waste (BIF's Newby Island and Zanker Rd, San Jose are the nearest).
- Do not blow or rake leaves into the street.

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Pool/Fountain/Spa Maintenance

- Draining pools or spas**
 When it's time to drain a pool, spa, or fountain please be sure to call the Cupertino Sanitary District before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow waters may be prohibited by local ordinance.
- Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.
 - If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recirculate wash by draining it gradually onto a landscaped area.
 - Do not use copper-based algaecides. Control algae with chlorine or other alternatives, such as sodium bromide.
- Filter Cleaning**
- Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and space filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
 - If there is no suitable dirt area, call Cupertino Sanitary District for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

Earth-Moving Activities

Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control Field Manual for proper erosion and sediment control measures.
- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.



Dewatering Operations

Storm Drain Pollution from Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.

Check for Sediment or Toxic Pollutants

- Check for odors, discoloration, or an oily sheen on groundwater.
- Ask your city inspector whether the groundwater must be tested by a certified laboratory.
- Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.
- When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.
- Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

Heavy Equipment Operation

Storm water Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Site Planning and Preventive Vehicle Maintenance

- Designate one area of the construction site well away from streams or storm drain inlets, berms and equipment parking, refueling, and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other barriers.
 - Maintain all vehicles and heavy equipment. Inspect regularly for fuel and oil leaks.
 - Perform regular maintenance, repair jobs, and vehicle and equipment washing off-site, where cleanup is easier.
 - If you must drain and replace motor oil, radiator coolant, or other fluids on site, use drip pans or grease catchers to catch drips and spills. Collect all spent fluids, store in separate containers, and never dispose as hazardous waste (recycle whenever possible).
 - Do not use diesel oil to lubricate equipment parts or clean equipment. Use only water for any onsite cleaning.
 - Cover exposed fifth wheel hitches and other oily or greasy equipment when rain events.
- Spill Cleanup**
- Clean up spills immediately.
 - Never have down "dirty" pavement or exposed surfaces where fluids have spilled. Use dry cleanup methods (absorbent material, cat litter, or dry dirt) whenever possible, and properly dispose of absorbent materials.
 - Sweep up spilled dry materials immediately. Never allow to "wash them away" with water, or bury them.
 - Use as little water as possible for dust control. Ensure water runoff does not cause a spill to discharge to storm drains.
 - Clean up spills on driveways by digging up and properly disposing of contaminated soil.
 - Call 911 for significant spills.
 - If the spill poses a significant hazard to human health and safety, property or the environment, you must immediately report it to the State Office of Emergency Services.

The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Roadwork and Paving

General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments.
- Schedule excavation and grading work during dry weather.
- Check for and repair leaking equipment.
- Perform major equipment repairs at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When refueling or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- Do not use diesel oil to lubricate equipment parts or clean equipment.
- Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly. (www.recyclestuff.com for list of recycling companies.)

Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use a little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

During Construction

- Avoid paving and seal coating in wet weather, or when rain is forecast to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coats, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- Never wash excess material from exposed-aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary rows or plastic sheets and berms.
- Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- Clean up all spills and leaks using "dry" methods (with an absorbent material and/or rag), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???
- Avoid over-application by water trucks for dust control.

Fresh Concrete and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

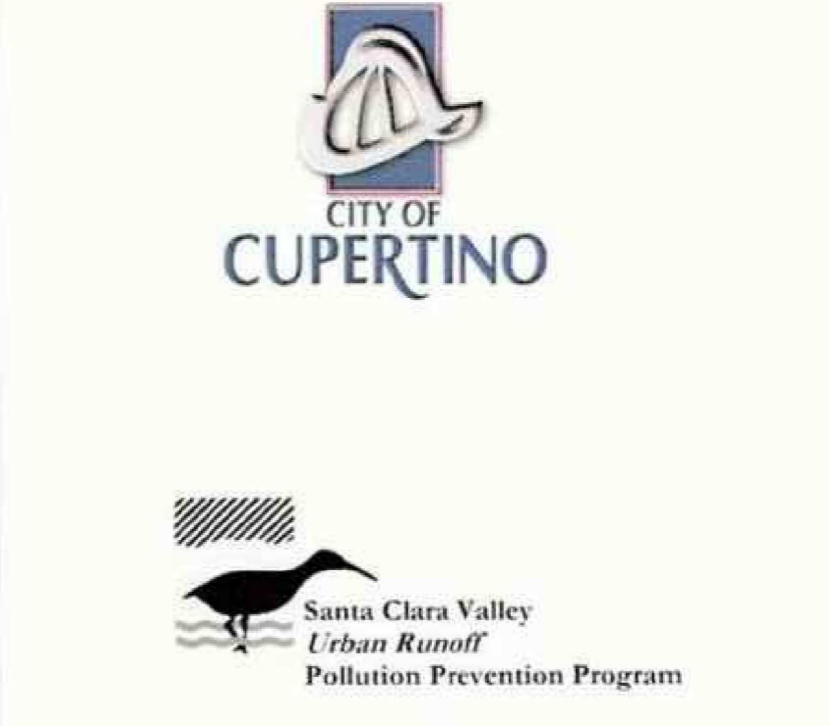
Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

General Business Practices

- Wash out concrete mixers only in designated washout areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out chutes onto dirt areas that do not flow to streets or drains.
- Always store both dry and wet materials under cover, protected from rainfall and runoff with temporary rows or plastic sheets and berms. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

Removal of BMP Facilities
 The Project Contractor is responsible for removal of all BMP Facilities located within the Public Right of Way upon project final inspection.

Small Business Hazardous Waste Disposal Prgm
 Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program. Call 408-299-7300 for a quote.



UPDATED SEPTEMBER 2016

APPROVED BY:
 TIMM BORDEN, PUC 46512
 DIRECTOR OF PUBLIC WORKS

9/1/16
 DATE

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO
 DEPARTMENT OF PUBLIC WORKS

SHEET: _____
 OF _____ SHEETS
 FILE: _____

NOT FOR CONSTRUCTION

DISCLAIMER
 THE ARCHITECT/ENGINEER SHALL HAVE NO RESPONSIBILITY FOR ANY LIABILITY, LOSS, COST, DAMAGE OR EXPENSE ARISING FROM OR RELATING TO ANY USE OF THIS DOCUMENT FOR ANY PURPOSE OTHER THAN ITS INTENDED PURPOSE ON THIS PROJECT. THIS DOCUMENT IS TO BE CONSIDERED IN CONJUNCTION WITH ALL RELATED DOCUMENTATION. ANY DISCREPANCIES IDENTIFIED IN THIS DOCUMENT MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT BEFORE PROCEEDING. CONTRACTORS MUST VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK. ONLY FOUR-DIMENSIONAL DIMENSIONS ARE TO BE USED FOR VERIFICATION.

SB-35 DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE
REV 1	SB-35 DEVELOPMENT APPLICATION	03/27/2018
REV 2	SB-35 APPLICATION REVISIONS	06/02/2018
REV 3	SB-35 APPLICATION CONTROL SET	09/15/2018

KEY PLAN AND NORTH ARROW

ARCHITECTS PROJECT NUMBER: 709011

PROJECT PHASE: SB-35 DEVELOPMENT APPLICATION

IF THIS DRAWING IS NOT 36"x48" IT IS A REDUCED PRINT. REFER TO GRAPHIC SCALE.



BEST MANAGEMENT PRACTICES

SHEET TITLE: _____