	WATER POLLUTION AND EROSION CONTROL NOT
	A. GENERAL:
	1. See Special Provisions Section 209 - Water Pollution and Erosic describes but is not limited to: submittal requirements; scheduli and erosion control conference with the Engineer; construction i of measurement; and basis of payment. In addition, Appendix A sources and corresponding BMPs used to mitigate the pollutants
	2. Follow the guidelines in the current HDOT Construction Best M Field Manual in developing, installing and maintaining the Best of (BMP) for the project. For any conflicting requirements between applicable bid documents, the applicable bid documents will gove not be clearly described within the applicable bid documents, the the Engineer immediately for interpretation. For the purposes of Note A.2, "applicable bid documents" include the construction pla specifications, Special Provisions, Permits, and the Storm Water Plan (SWPPP) when applicable.
	3. Follow the guidelines in the City and County of Honolulu's "Adm 20, Department of Planning and Permitting, Chapter 3, Rules Re as amended.
	4. The Engineer may assess liquidated damages of up to \$27,500 each BMP requirement and each requirement stated in Section 2 provisions, for every day of non-compliance. There is no maximu assessed per day.
	5. The Engineer will deduct the cost from the progress payment the by the Department for non-compliance, or the Contractor shall reasonable amount of the outstanding cost incurred by the State.
	6. If an existing rain gage is within proximity of the project site engineer, the data from this gage may be used. Otherwise, a ra prior to any field work including the installation of any site-spe practices. The rain gauge shall have a tolerance of at least 0.0 the rain gage on the project site in an area that will not deter opening. Do not install in a location where rain water may spla installation shall be stable and plumbed. Do not begin field work and site-specific best management practices are in-place.
	7. Submit Site-Specific BMP Plan to the Engineer along with a co Review Checklist within 30 calendar days of contract execution. Checklist may be obtained from <u>http://www.stormwaterhawaii.co</u>
LOTTED BY	 B. WASTE DISPOSAL: 1. Waste Materials Collect and store all waste materials in a securely lidded metal container with cover to keep rain out or loss of waste during with shall meet all local and State solid waste management regulation construction debris from the site in the dumpster. Empty the ducontainer is two-thirds full, whichever is sooner. Do not bury con site. The Contractor's supervisory personnel shall be instructed for waste disposal. Post notices stating these practices in the bulletin board, or other accessible location acceptable to the Engresponsible for seeing that these procedures are followed. Subm Form for Construction Sites to the Engineer within 30 calendar a copy of all the disposal receipts, which includes receipts for demolished material, etc., from the facility permitted by the Depawaste to the Engineer monthly. This should also include docum facility where solid waste is handled or processed.
NAL SURVEY PI N DRAWN BY TRACED BJ QUANTITIE CHECKED E	2. Hazardous Waste Dispose all hazardous waste materials in the manner specified by the manufacturer. The Contractor's site personnel shall be in shall be responsible for seeing that these practices are followed

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- ion Control. Section 209 ling of a water pollution requirements; method lists potential pollutant
- *Management* Practices Management Practices the Manual and ern. Should a requirement he Contractor shall notify f clarification under ans, standard Pollution Prevention
- ministrative Rules, Title elating to Water Quality,"
- for non-compliance of 209 and special Im limit on the amount
- for all citations received reimburse the State for the full
- e, and is approved by the rain gage shall be installed ecific best management 0.05 inches of rainfall. Install rainfall from entering the gage ash into rain gage. The rain gage k until the rain gage is installed
- ompleted Site-Specific BMP The Site-Specific BMP Review <u>m</u>.
- dumpster or roll off windy conditions. The dumpster ons. Deposit all trash and umpster weekly or when the construction waste materials sted regarding the correct procedure office trailer, on a weatherproof ngineer. The Contractor shall be mit the Solid Waste Disclosure days of contract execution. Provide all excess excavated material, partment of Health to receive solid mentation from any intermediary
- by local or State regulations and nstructed in these practices and

- 3. Sanitary Waste where they are secure and will not be tipped over or knocked down.
- C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
- normal working hours. The discharge point water classification may be found in the SWPPP.
- 2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
- which it is too late to initiate repair, initiation of repair shall begin on the following work day.
- perimeter sediment control devices when it has reached one-half the height of the device.
- buried a minimum of 6 inches below the existing ground.
- 6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.
- street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
- 9. No cold planed material or material containing silica shall be used to stabilize staging areas.
- 10. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- out the inspection and maintenance report.
- on-site in good working order.

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Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities

1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's

3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in

4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other

5. Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is

8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the

11. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling

12. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used

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- 12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.
- 13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earthdisturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.
- 14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.
- D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
- 1. Materials Pollution Prevention Plan a. Applicable materials or substances listed below are expected to be present on-site during construction. Other materials and substances not listed below shall be added to the inventory.

Cleaning Solvents Concrete Detergents Wood Paint's (enamel and latex) Masonry Block Metal Studs Herbicides and Pesticides Tar Curing Compounds Fertilizers Adhesives Petroleum Based Products

- b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- c. Store all materials stored on-site in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- d. Keep products in their original containers with the original manufacturer's label.
- e. Do not mix substances with one another unless recommended by the manufacturer. f. Whenever possible, use a product up completely before disposing of the container.
- g. Follow manufacturer's recommendations for proper use and disposal.
- h. Conduct a daily inspection to ensure proper use and disposal of materials on-site.
- 2. Hazardous Material Pollution Prevention Plan
- a. Keep products in original containers unless they are not resealable. b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
- c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.
- 3. On-site and Off-site Product Specific Plan
- The following product specific practices shall be followed on-site: a. Petroleum Based Products:
- Monitor all on-site vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used on-site according to the manufacturer's recommendation.

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b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

- 4. Spill Control Plan
- a. Post a spill prevention plan to include measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer on-site.
- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area on-site.
- e. Clean up all spills immediately after discovery.

f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance. g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at <u>cleanwaterbranch@doh.hawaii.gov</u> during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

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- E. PERMIT REQUIREMENTS:
- 1. A National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities of one acre or more of disturbed area is required for this project. If the Contractor requires extra land disturbance, including staging and storage areas, not covered by the NPDES permit obtained by the State, the Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit using HDOT's latest Stormwater Pollution Prevention Plan (SWPPP) Template to cover this additional disturbed area. See Hawaii Administrative Rules Chapter 11-55, Appendix C for definition of land disturbance. The Contractor's attention is directed to the applicable NPDES Permit documents on the bid package compact disc.
- 2. Comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:
 - a. NPDES Permit for Construction Activities
- F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual dated January 2008 and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at http://www.stormwaterhawaii.com/resources/ contractors-and-consultants/ under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <u>http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution</u> -prevention-plan-swppp/ under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

- 1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-2).
- 2. Contain on-site runoff using Perimeter Sediment Controls a. SC-1 Silt Fence
- b. SC-5 Vegetated Filter Strips and Buffers
- c. SC-8 Compost Filter Berm
- d. SC-13 Sandbag Barrier
- e. SC-14 Brush or Rock Filter
- 3. Control off-site runoff from entering construction area a. EC-8 Run-On Diversion
- b. SC-6 Earth Dike
- c. SC-7 Temporary Drains and Swales
- 4. Incorporate applicable Site Management BMP a. SM-1 Employee Training
- b. SM-2 Material Delivery and Storage
- c. SM-3 Material Use
- d. SM-4 Protection of Stockpiles
- e. SM-6 Solid Waste Management
- f. SM-7 Sanitary/Septic Waste Management
- g. SM-9 Hazardous Waste Management
- h. SM-10 Spill Prevention and Control
- i. SM-11 Vehicle and Equipment Cleaning
- j. SM-12 Vehicle and Equipment Maintenance
- k. SM-13 Vehicle and Equipment Refueling
- I. SM-14 Scheduling
- m. SM-15 Location of Potential Sources of Sediment
- n. SM-16 Preservation of Existing Vegetation
- o. SM-18 Dust Control

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- F. SITE-SPECIFIC BMP REQUIREMENTS CONT.
- to these points.
- hydrodemolition work.

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5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (EC-2) for all areas which exit onto a paved street. Restrict vehicle access

6. Manage Concrete Waste including installing a Concrete Washout Area (SM-5) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).

7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and

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