Amend Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION **CONTROL** to read as follows:

## "SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

209.01 **Description.** This section describes the following:

- (A) Including detailed plans, diagrams, and written Site-Specific Best Management Practices (BMP); constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site, including local material sources, work areas and haul roads; removing and disposing hazardous wastes; control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion); and complying with applicable State and Federal permit conditions.
- (B) Work associated with construction stormwater, dewatering, and hydrotesting activities and complying with conditions of the National Pollutant Discharge Elimination System (NPDES) permit(s) authorizing discharges associated with construction stormwater, dewatering, and hydrotesting activities.

(C) Potential pollutant identification and mitigation measures are listed in Appendix A for use in the development of the Contractor's Site-Specific BMP.

Requirements of this section also apply to construction support activities including concrete or asphalt batch plants, rock crushing plants, equipment staging yards/areas, material storage areas, excavated material disposal areas, and borrow areas located outside the State Right-of-Way. For areas serving multiple construction projects, or operating beyond the completion of the construction project in which it supports, the Contractor shall be responsible for securing the necessary permits, clearances, and documents, and following the conditions of the permits and clearances, at no cost to the State.

209.02 Materials. Comply with applicable materials described in Chapters 2 and 3 of the current HDOT "Construction Best Management Practices Field Manual". In addition, the materials shall comply with the following:

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(A) **Grass.** Grass shall be a quick growing species such as rye grass, Italian rye grass, or cereal grasses. Grass shall be suitable to the area and provide a temporary cover that will not compete later with permanent cover. Alternative grasses are allowable if acceptable to the Engineer.

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- **(B) Fertilizer and Soil Conditioners.** Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Engineer. Fertilizer shall conform to Subsection 619.02(H)(1) Commercial Fertilizer.
- **Hydro-mulching**. Hydro-mulching used as a temporary vegetative (C) stabilization measure shall consist of materials in Subsections 209.02(A) -Grass, and 209.02(B) - Fertilizer and Soil Conditioners. Mulches shall be recycled materials including bagasse, hay, straw, wood cellulose bark, wood chips, or other material acceptable to the Engineer. Mulches shall be clean and free of noxious weeds and deleterious materials. Potable water shall meet the requirements of Subsection 712.01 - Water. Submit alternate sources of irrigation water for the Engineer's acceptance if deviating from 712.01 - Water. Installation and other requirements shall be in accordance with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil and Mulch Tackifier, 641.03(A) – Seeding, and 641.03(B) - Planting Period. Install non-vegetative controls including mulch or rolled erosion control products while the vegetation is being established. Water and fertilize grass. Apply fertilizer as recommended by the manufacturer. Replace grass the Engineer considers unsuitable or sick. Remove and dispose of trash and debris. Remove invasive species. Mow as needed to prevent site or signage obstructions, fire hazard, or nuisance to the public. Do not remove down stream sediment control measures until the vegetation is uniformly established, including no large bare areas, and provides 70 percent of the density of pre-disturbance vegetation. Temporary vegetative stabilization shall not be used longer than one year.
- **(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt Fence Installation.

Alternative materials or methods to control, prevent, remove and dispose pollution are allowable if acceptable to the Engineer.

## 209.03 Construction.

- (A) Preconstruction Requirements.
  - (1) Water Pollution, Dust, and Erosion Control Meeting. Schedule a water pollution, dust, and erosion control meeting with the Engineer after Site-Specific BMP is accepted in writing by the Engineer. Meeting shall be scheduled a minimum of seven (7) calendar days prior to the Start Work Date. Discuss sequence of work, plans and proposals for water pollution, dust, and erosion control.

90	(2) Water Pollution, Dust, and Erosion Control Submittals.
91	Submit a Site-Specific BMP Plan within twenty-one (21) calendar days
92	of date of award. Submission of complete and acceptable Site-
93	Specific BMP Plan is the sole responsibility of the Contractor and
94	additional contract time will not be issued for delays due to
95	incompleteness. Include the following:
96	
97	(a) Written description of activities to minimize water
98	pollution and soil erosion into State waters, drainage or sewer
99	systems. BMP shall include the following:
100	-,g.
01	1. An identification of potential pollutants and their
102	sources.
103	334,333
104	2. A list of all materials and heavy equipment to be
105	used during construction.
106	dood dannig contentations.
107	<b>3.</b> Descriptions of the methods and devices used to
108	minimize the discharge of pollutants into State waters,
109	drainage or sewer systems.
110	dramage of cower cycleme.
111	4. Details of the procedures used for the
112	maintenance and subsequent removal of any erosion or
113	siltation control devices.
114	chadion defined devices.
115	<b>5.</b> Methods of removing and disposing hazardous
116	wastes encountered or generated during construction.
117	wastes should be gonerated during solicit determ.
118	<b>6.</b> Methods of removing and disposing concrete and
119	asphalt pavement cutting slurry, concrete curing water,
120	and hydrodemolition water.
21	and hydrodomondon water.
122	7. Spill Control and Prevention and Emergency Spill
123	Response Plan.
124	response riam
125	<b>8.</b> Fugitive dust control, including dust from grinding,
126	sweeping, or brooming off operations or combination
127	thereof.
128	
129	<b>9.</b> Methods of storing and handling of oils, paints
130	and other products used for the project.
131	and other products dood for the project.
132	<b>10.</b> Material storage and handling areas, and other
133	staging areas.
134	
135	11. Concrete truck washouts.

136 137	<b>12.</b> Concrete waste control.
138 139	<b>13.</b> Fueling and maintenance of vehicles and other equipment.
140 141	<b>14.</b> Tracking of sediment offsite from project entries
142 143	and exits.
144 145	<b>15.</b> Litter management.
146 147	<b>16.</b> Toilet facilities.
148 149	17. Other factors that may cause water pollution, dus and erosion control.
150 151 152 153 154 155 156 157 158 159 160 161 162 163	(b) Provide plans indicating location of water pollution, dust and erosion control devices; provide plans and details of BMPs to be installed or utilized; show areas of soil disturbance in curand fill, indicate areas used for construction staging and storage including items (1) through (17) above, storage or aggregate (indicate type of aggregate), asphalt cold mix, soil or solid waste, equipment and vehicle parking, and show areas where vegetative practices are to be implemented. Indicate intended drainage pattern on plans. Include flow arrows Include separate drawing for each phase of construction that alters drainage patterns. Indicate approximate date when device will be installed and removed.
164 165	(c) Construction schedule.
166 167 168 169 170	(d) Name(s) of specific individual(s) designated responsible for water pollution, dust, and erosion controls on the projec site. Include home, cellular, and business telephone numbers fax numbers, and e-mail addresses.
171 172	(e) Description of fill material to be used.
173 174 175 176	<b>(f)</b> For projects with an NPDES Permit for Construction Activities, submit information to address all sections in the Storm Water Pollution Prevention Plan (SWPPP).
177 178 179 180	(g) For projects with an NPDES Permit, information required for compliance with the conditions of the Notice of Genera Permit Coverage (NGPC)/NPDES Permit.

**(h)** Site-Specific BMP Review Checklist. The checklist may be downloaded from HDOT's Stormwater Management website at http://stormwaterhawaii.com.

Date and sign Site-Specific BMP Plan. Keep accepted copy on site or at an accessible location so that it can be made available at the time of an on-site inspection or upon request by the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA Representative. Amendments to the Site-Specific BMP Plan shall be included with original Site-Specific BMP Plan. Modify SWPPP if necessary to conform to revisions. Include date of installation and removal of Site-Specific BMP measures. Obtain written acceptance by the Engineer before implementing revised Site-Specific BMPs in the field.

Follow the guidelines in the current HDOT "Construction Best Management Practices Field Manual", in developing, installing, and maintaining Site-Specific BMPs for all projects. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, notify the Engineer immediately for interpretation. For the purposes of clarification "applicable bid documents" include the construction plans, standard specifications, special provisions, Permits, and the SWPPP when applicable.

Follow Honolulu's City and County "Rules for Soil Erosion Standards and Guidelines" for all projects on Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii projects.

**(B)** Construction Requirements. Do not begin work until submittals detailed in Subsection 209.03(A)(2) - Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

Install, maintain, monitor, repair and replace site-specific BMP measures, such as for water pollution, dust and erosion control; installation, monitoring, and operation of hydrotesting activities; removal and disposal of hazardous waste indicated on plans, concrete cutting slurry, concrete curing water; or hydrodemolition water. Site-Specific BMP measures shall be in place, functional and accepted by HDOT personnel prior to initiating any ground disturbing activities.

If necessary, furnish and install rain gage in a secure location prior to field work including installation of site-specific BMP. Provide rain gage with a tolerance of at least 0.05 inches of rainfall. Install rain gage on project site in an area that will not deter rainfall from entering the gate opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Maintain rain gage and replace rain gage that is stolen, does not function properly or accurately, is worn out, or needs to be relocated. Do not begin field work until rain gage is installed and Site-Specific BMPs are in place. Rain gage data logs shall be readily available. Submit rain gage data logs weekly to the Engineer.

Address all comments received from the Engineer.

Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

Limit maximum surface area of earth material exposed at any time to 300,000 square feet. Do not expose or disturb surface area of earth material (including clearing and grubbing) until BMP measures are installed and accepted in writing by the Engineer. Protect temporarily or permanently disturbed soil surface from rainfall impact, runoff and wind before end of the work day.

Immediately initiate stabilizing exposed soil areas upon completion of earth disturbing activities for areas permanently or temporarily ceased on any portion of the site. 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. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume for a period of fourteen (14) or more calendar days, but such activities will resume in the future. The term "immediately" is used in this section to define the deadline for initiating stabilization measures. "Immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased.

For projects with an NPDES Permit for Construction activities:

268	(1) For construction areas discharging into waters not impaired for
269	nutrients or sediments, complete initial stabilization within fourteen
270	(14) calendar days after the temporary or permanent cessation of
271	earth-disturbing activities.
272	
273	(2) For construction areas discharging into nutrient or sediment
274	impaired waters, complete initial stabilization within seven (7) calendar
275	days after the temporary or permanent cessation of earth-disturbing
276	activities.
277	
278	For projects without an NPDES Permit for Construction activities,
279	complete initial stabilization within fourteen (14) calendar days after the
280	temporary or permanent cessation of earth-disturbing activities.
281	
282	Any of the following types of activities constitutes initiation of
283	stabilization:
284	
285	(1) Prepping the soil for vegetative or non-vegetative stabilization;
286	
287	(2) Applying mulch or other non-vegetative product to the exposed
288	area;
289	
290	(3) Seeding or planting the exposed area;
291	
292	(4) Starting any of the activities in items (1) – (3) above on a portion
293	of the area to be stabilized, but not on the entire area; and
294	
295	(5) Finalizing arrangements to have stabilization product fully
296	installed in compliance with the deadline for completing initial
297	stabilization activities.
298	
299	Any of the following types of activities constitutes completion of initial
300	stabilization activities:
301	
302	(1) For vegetative stabilization, all activities necessary to initially
303	seed or plant the area to be stabilized; and/or
304	
305	(2) For non-vegetative stabilization, the installation or application
306	of all such non-vegetative measures.
307	
308	If the Contractor is unable to meet the deadlines above due to
309	circumstances beyond the Contractor's control, and the Contractor is using
310	vegetative cover for temporary or permanent stabilization, the Contractor
311	may comply with the following stabilization deadlines instead as agreed to by
312	the Engineer:
313	

314 315 316 317	(1) Immediately in above, the installati measures to prevent
318 319 320 321	(2) Complete all sinstallation, mulching planting and initial es
322 323 324 325 326 327	(3) Notify and p circumstances that pr above for stabilization initiating and comple Engineer.
328 329 330 331 332	Follow the applicable provisions including Section Seeding.
333 334 335 336 337	Immediately after se stabilized, to the extent ne planted area, select, design provide cover (e.g., mulch, r vegetation is becoming esta
338 339 340 341 342 343 344 345	Protect exposed or di or hydromulch. Spray mulc tackifier to mix at a rate of 8 of 125 pounds per acre. I required for mulches and g licensed Landscape Archite above.
346 347 348 349 350	Apply fertilizer to manufacturer's recommenda Landscape Architect w recommendations.
351 352 353 354	Install velocity dissipa greater than 15 feet in heigh

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(1) Immediately initiate, and complete within the timeframe shown above, the installation of temporary non-vegetative stabilization measures to prevent erosion;

- (2) Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions or circumstances allow it on the site: and
- (3) Notify and provide documentation to the Engineer the circumstances that prevent the Contractor from meeting the deadlines above for stabilization and the schedule the Contractor will follow for initiating and completing initial stabilization and as agreed to by the Engineer.

Follow the applicable requirements of the specifications and special provisions including Section 619 Planting and Section 641 Hydro-Mulch Seeding.

Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or planted area, select, design, and install non-vegetative erosion controls that provide cover (e.g., mulch, rolled erosion control products) to the area while vegetation is becoming established.

Protect exposed or disturbed surface area with mulches, grass seeds or hydromulch. Spray mulches at a rate of 2,000 pounds per acre. Add tackifier to mix at a rate of 85 pounds per acre. Apply grass seeds at a rate of 125 pounds per acre. For hydromulch, use the ingredients and rates required for mulches and grass seeds. Submit recommendations from a licensed Landscape Architect when deviating from the application rates above.

Apply fertilizer to mulches, grass seed or hydromulch per manufacturer's recommendations. Submit recommendations from a licensed Landscape Architect when deviating from the manufacturer's recommendations.

Install velocity dissipation measures when exposing erodible surfaces greater than 15 feet in height.

BMP measures shall be in place and operational at the end of work day or as required by Section 209.03(B) Construction Requirements.

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Install and maintain either or both stabilized construction entrances and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other material tracked onto the road, sidewalk, or other paved area by the end of the same day in which the track-out occurs. Modify stabilized construction entrances to prevent mud from being tracked onto road. Stabilize entire access roads if necessary.

Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Engineer.

Provide temporary slope drains of rigid or flexible conduits to carry runoff from cuts and embankments. Provide portable flume at the entrance. Shorten or extend temporary slope drains to ensure proper function.

Protect ditches, channels, and other drainageways leading away from cuts and fills at all times by either:

- (1) Hydro-mulching the lower region of embankments in the immediate area.
- (2) Installing check dams and siltation control devices.
- (3) Other methods acceptable to the Engineer.

Provide for controlled discharge of waters impounded, directed, or controlled by project activities or erosion control measures.

Cover exposed surface of materials completely with tarpaulin or similar device when transporting aggregate, soil, excavated material or material that may be source of fugitive dust.

Cleanup and remove any pollutant that can be attributed to the Contractor.

Install or modify Site-Specific BMP measures due to change in the Contractor's means and methods, or for omitted condition that should have been allowed for in the accepted Site-Specific BMP or a Site-Specific BMP that replaces an accepted Site-Specific BMP that is not satisfactorily performing. Modifications to Site-Specific BMP measures shall be accepted in writing by the Engineer prior to implementation.

Properly maintain all Site-Specific BMP measures.

For projects with an NPDES Permit for Construction Activities:

404		construction areas discharging into nutrient or sediment		
405	impaired w	red waters, inspect, prepare a written report, and make repairs		
406	to BMP me	easures at the following intervals:		
407				
408	(a)	Weekly.		
409				
410	(b)	Within twenty-four (24) hours of any rainfall of 0.25 inch		
411	or g	reater which occurs in a 24-hour period.		
412	_	· ·		
413	(c)	When existing erosion control measures are damaged		
414	or n	ot operating properly as required by Site-Specific BMP.		
415				
416	<b>(2)</b> For	construction areas discharging to waters not impaired for		
417		r sediments, inspect, prepare a written report, and make		
418		BMP measures at the following intervals:		
419	'	ŭ		
420	(a)	Weekly.		
421	(-)	,		
422	(b)	When existing erosion control measures are damaged		
423	• •	ot operating properly as required by Site-Specific BMP.		
424	J	or choraming brokerny are redamentally error electric from t		
425	For projec	ts without an NPDES Permit for Construction activities,		
426		a written report, and make repairs to BMP measures at the		
427	following intervals			
428	ionoming intervals	•		
429	(a)	Weekly.		
430	(ω)	rroomy.		
431	(b)	When existing erosion control measures are damaged		
432	` ,	ot operating properly as required by Site-Specific BMP.		
433	OI II	ot operating property de required by one operation birm.		
434	Temporaril	y remove, replace or relocate any Site-Specific BMP that		
435	•	, replaced or relocated due to potential or actual flooding,		
436		er or damage to project or public.		
437	or potential dange	or damage to project or public.		
438	Maintain r	ecords of inspections of Site-Specific BMP work. Keep		
439		ds for duration of the project. Submit copy of Inspection		
440	Report to the Eng	ineer within twenty-four (24) hours after each inspection.		
441	The Contri	actoria decignated representative aposified in Cubacation		
442		actor's designated representative specified in Subsection		
443	` , ` , ` ,	nall address any Site-Specific BMP deficiencies brought up		
444		immediately, including weekends and holidays, and		
445	•	fix the deficiencies by the close of the next work day if the		
446		require significant repair or replacement, or if the problem		
447		through routine maintenance. Address any Site-Specific		
448		brought up by the State's Third-Party Inspector in the		
449	timetrame above	or as specified in the Consent Decree or MS4 NPDES		

450 Permit, whichever is more stringent. The Consent Decree timeframe 451 requirement applies statewide. The MS4 NPDES Permit only applies to Oahu. In this section, "immediately" means the Contractor shall take all 452 453 reasonable measures to minimize or prevent discharge of pollutants until a 454 permanent solution is installed and made operational. If a problem is 455 identified at a time in the day in which it is too late to initiate repair, initiation 456 of repair shall begin on the following work day. When installation of a new 457 pollution prevention control or a significant repair is needed, complete 458 installation or repair no later than seven (7) calendar days from the time of 459 notification/Contractor discovery. Notify the Engineer and document why it is infeasible to complete the installation or repair within seven (7) calendar 460 days and complete the work as soon as practicable and as agreed to by the 461 462 Address Site-Specific BMP deficiencies discovered by the 463 Contractor within the timeframe above. The Contractor's failure to 464 satisfactorily address these Site-Specific BMP deficiencies, the Engineer 465 reserves the right to employ outside assistance or use the Engineer's own 466 labor forces to provide necessary corrective measures. The Engineer will 467 charge the Contractor such incurred costs plus any associated project 468 engineering costs. The Engineer will make appropriate deductions from the 469 Contractor's monthly progress estimate. Failure to apply Site-Specific BMP measures may result in one or more of the following: assessment of 470 liquidated damages, suspension, or cancellation of Contract with the 471 472 Contractor being fully responsible for all additional costs incurred by the 473 State.

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(C) Discharges of Storm Water Associated with Construction Activities. If work includes disturbance of one acre or more, an NPDES Permit authorizing Discharges of Storm Water Associated with Construction Activity (CWB-NOI Form C) or Individual Permit authorizing storm water discharges associated with construction activity is required from the Department of Health Clean Water Branch (DOH-CWB).

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483 484 Do not begin construction activities until all required conditions of the permit are met and submittals detailed in Subsection 209.03(A)(2) – Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

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**(D) Discharges Associated with Hydrotesting Activities.** If hydrotesting activities require effluent discharge into State waters or drainage systems, an NPDES Hydrotesting Waters Permit (CWB-NOI Form F) or Individual Permit authorizing discharges associated with hydrotesting from DOH-CWB is required from the DOH-CWB.

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Do not begin hydrotesting activities until the DOH-CWB has issued an Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct Hydrotesting operations in accordance with the conditions of the

496 permit or NGPC. **(E) Discharge** 

**(E)** Discharges Associated with Dewatering Activities. If dewatering activities require effluent discharge into State waters or drainage systems, an NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit authorizing discharges associated with dewatering from DOH-CWB is required from the DOH-CWB.

Do not begin dewatering activities until the DOH-CWB has issued an Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct dewatering operations in accordance with the conditions of the permit or NGPC.

- **(F) Solid Waste.** Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within twenty-one (21) calendar days of date of award. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed, or as directed by the Engineer.
- **(G) Construction BMP Training.** The Contractor's representative responsible for development of the Site-Specific BMP Plan and implementation of Site-Specific BMPs in the field shall attend the State's Construction Best Management Practices Training. The Contractor shall keep training logs updated and readily available.

## 209.04 Measurement.

- (A) Installation, maintenance, monitoring, and removal of BMP will be paid on a lump sum basis. Measurement for payment will not apply.
- **(B)** The Engineer will only measure additional water pollution, dust and erosion control required and requested by the Engineer on a force account basis in accordance with Subsection 109.06 Force Account Provisions and Compensation.
- **209.05 Payment.** The Engineer will pay for accepted pay items listed below at contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for work prescribed in this section and contract documents.

537 538	The Engineer will pay for each of the following pay items wh proposal schedule:	nen included in
539 540 541	Pay Item	Pay Unit
542 543	Installation, Maintenance, Monitoring, and Removal of BMP	Lump Sum
544 545	Additional Water Pollution, Dust, and Erosion Control	orce Account
546 547 548 549 550 551	An estimated amount for force account is allocated in proposal s 'Additional Water Pollution, Dust, and Erosion Control', but actual am will be the sum shown on accepted force account records, whether this or less than estimated amount allocated in proposal schedule. The pay for BMP measures requested by the Engineer that are bey accepted Site-Specific BMP on a force account basis.	ount to be paid s sum be more e Engineer will
553 554 555 556	No progress payment will be authorized until the Engineer accessite-Specific BMP or when the Contractor fails to maintain project site with accepted BMP.	
557 558 559 560 561 562	For all citations or fines received by the Department for no including compliance with NPDES Permit conditions, the Contractor's State within thirty (30) calendar days for full amount of outstanding incurred, or the Engineer will deduct cost from progress payment.  The Engineer will assess liquidated damages up to \$27,500 p compliance of each BMP requirement and all other requirements in the state of the contraction of the cont	shall reimburse cost State has er day for non-
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## Appendix A

The following list identifies potential pollutant sources and corresponding BMPs used to mitigate the pollutants. Each BMP is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual or appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <a href="http://www.stormwaterhawaii.com/resources/contractors-and-consultants/">http://www.stormwaterhawaii.com/resources/contractors-and-consultants/</a> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <a href="http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/">http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/</a> under Concrete Curing and Irrigation Water.

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Construction debris, green waste, general litter	<ul> <li>Separate contaminated clean up materials from construction and demolition (C&amp;D) wastes.</li> <li>Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.</li> <li>Inspect construction waste and recycling areas regularly.</li> <li>Schedule solid waste collection regularly.</li> <li>Schedule recycling activities based on construction/demolition phases.</li> <li>Empty waste containers weekly or when they are two-thirds full, whichever is sooner.</li> <li>Do not allow containers to overflow. Clean up immediately if they do.</li> <li>On work days, clean up and dispose of waste in designated waste containers.</li> <li>See Solid Waste Management Section SM-6 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> <li>Collect and dispose of all waste materials in trash dumpsters. Place dumpsters, with secure watertight lids, away from storm water conveyances and drains, in a covered materials storage area.</li> <li>Dispose of construction and non-construction solid waste in accordance with State DOH regs.</li> <li>Load removed non-recyclable vegetation directly onto trucks; cover and transport to a licensed facility</li> </ul>	See Solid Waste Management Section SM-6. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.

Pollutant	Appropriate Site-Specific BMP to be	BMP Boguirements
Source	Implemented	Requirements
Materials	Use off-site wash racks, repair and	See Vehicle and
associated with the	maintenance facilities, and fueling sites when practical.	Equipment Cleaning,
operation	<ul> <li>Designate bermed wash area if cleaning on</li> </ul>	Maintenance,
and	site is necessary.	and Refueling,
maintenance	<ul> <li>Place drip pans or drop cloths under vehicles</li> </ul>	Sections SM-
of	and equipment to absorb spills or leaks.	11, SM-12, and
equipment, such as oil,	<ul> <li>Provide an ample supply of readily available spill cleanup materials.</li> </ul>	SM-13, and Material
fuel, and	<ul> <li>Clean up spills immediately, using dry clean-</li> </ul>	Storage and
hydraulic fluid leakage	up methods where possible, and dispose of used	Handling, Section SM-2,
nulu leakage	materials properly.	and Spill
	<ul> <li>Do not clean surfaces or spills by hosing the area down.</li> </ul>	Prevention and
	Eliminate the source of the spill to prevent a	Control SM-10.
	discharge or a continuation of an ongoing	
	discharge.	
	Inspect on-site vehicles and equipment	
	regularly and immediately repair leaks.	
	<ul> <li>Regularly inspect fueling areas and storage tanks.</li> </ul>	
	Train employees on proper maintenance and	
	spill practices and procedures and fueling and	
	cleanup procedures.	
	<ul> <li>Store diesel fuel, oil, hydraulic fluid, or other</li> </ul>	
	petroleum products or other chemicals in water-	
	tight containers and provide cover or secondary containment.	
	Do not remove original product labels and	
	comply with manufacturer's labels for proper	
	disposal.	
	Dispose of containers only after all the product	
	has been used.	
	Dispose of or recycle oil or oily wastes  according to Fodoral, State, and Legal	
	according to Federal, State, and Local requirements.	
	<ul> <li>Store soaps, detergents, or solvents under</li> </ul>	
	cover or other means to prevent contact with	
	rainwater.	
	See Vehicle and Equipment Cleaning,	
	Maintenance, and Refueling, Sections SM-11,	
	SM-12, and SM-13 and Material Storage and	
	Handling Section SM-2 for additional	
	requirements.	

Pollutont	Appropriate Site Specific BMD to be	DMD
	•	-
Pollutant Source  Soil erosion from the disturbed areas	Appropriate Site-Specific BMP to be Implemented  Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-1, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-3, Level Spreader EC-6, Paving Operations SM-20, Construction Roads and Parking Area Stabilization SC-10, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Construction BMP Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-17).  Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.  Preserve native topsoil where practicable.  In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth.  For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised.  Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the following work day if removal by the same day is not feasible.  Sediment basins shall be designed and maintained in accordance with HAR Chapter 11-55.  Minimize disturbance on steep slopes (Greater)	Requirements  Soil Stabilization 1. SM-22 Topsoil Management 2. EC-12 Seeding and Planting 3. EC-14 Mulching 4. EC-11 Geotextiles and Mats  Slope Protection 1. EC-12 Seeding and Planting 2. EC-14 Mulching 3. EC-11 Geotextiles and Mats 4. EC-4 Slope Roughening, Terracing, and Rounding 5. EC-7 Slope Drains and Subsurface Drains
	<ul> <li>Minimize disturbance on steep slopes (Greater than 15% in grade).</li> <li>If disturbance of steep slopes are unavoidable,</li> </ul>	6. EC-9 Slope
	phase disturbances and use stabilization techniques designed for steep grades.	Interceptor or Diversion Ditches/Berms
	For temporary drains and swales use velocity	SC-1 Storm
	dissipation devices within and at the outlet to minimize erosive flow velocities.	Drain Inlet Protection

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
		Perimeter Controls and Sediment Barriers  1. SC-7 Silt Fence or Filter Fabric Fence 2. SC-2 Vegetated Filter Strips and Buffers 3. SC-6 Compost Filter Berm/Sock 4. SC-8 Sandbag Barrier 5. SC-9 Brush or Rock Filter
		Sediment Basins and Detention Ponds 1. SC-4 Sediment Trap 2. SC-5 Sediment Basin SC-3 Check Dams
		EC-6 Level Spreader SM-20 Paving Operations SC-10 Construction Roads and Parking Area Stabilization

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
		Controlling Storm Water Flowing onto and Through the Project 1. EC-3 Run-On Diversion 2. EC-5 Earth Dike, Swales and Ditches
		Post Construction BMPs 1. EC-2 Flared Culvert End Sections 2. EC-10 Rip-Rap and Gabion Inflow Protection 3. EC-8 Outlet Protection and Velocity Dissipation Devices 4. SM-22 Topsoil Management
		Non-Structural BMPs 1. SM-1 Construction BMP Training 2. SM-14 Scheduling 3. SM-15 Location of Potential Sources of Sediment 4. SM-17 Preservation of Existing Vegetation

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
Sediment from soil stockpiles	<ul> <li>Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff or outside of any natural buffers identified on the SWPPP.</li> <li>Place bagged materials on pallets and under cover.</li> <li>Provide physical diversion to protect stockpiles from concentrated runoff.</li> <li>Cover stockpiles with plastic or comparable material when practicable.</li> <li>Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.</li> <li>Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.</li> <li>Unless infeasible, contain and securely protect stockpiles from the wind.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable. See Stockpile Management Section SM-3 for additional requirements.</li> </ul>	See Stockpile Management Section SM-3. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.
Emulsified asphalt or prime/tack coat	<ul> <li>Provide training for employees and contractors on proper material delivery and storage practices and procedures.</li> <li>Restrict paving operations during wet weather to prevent paving materials from being discharged.</li> <li>Use asphalt emulsions such as prime coat when possible.</li> <li>Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.</li> <li>Keep ample supplies of drip pans and absorbent materials on site.</li> <li>Inspect inlet protection devices.</li> <li>See Material Storage and Handling Section SM-2 and Paving Operations Section SM-20 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Material Storage and Handling Section SM-2, and Stockpile Management Section SM-3, Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.

Pollutant Source	Appropriate Site-Specific BMP to be	BMP Poquiroments
	Implemented	Requirements
Materials	Hazardous chemicals shall be well-labeled	See Material
associated	and stored in original containers.	Storage and
with	Keep ample supply of cleanup materials on	Handling Use
painting,	site.	Section SM-2,
such as	Dispose container only after all of the product	Stockpile Management
paint and paint wash	has been used.	Section SM-3,
solvent	Remove as much paint from brushes on	Hazardous
Solvein	painted surface.	Materials and
	Rinse from water-based paints shall be	Waste
	discharged into the sanitary sewer system where	Management
	possible. If not, direct all washwater into a leak-	Section SM-9,
	proof container or leak-proof pit. The container or	Waste
	pit must be designed so that no overflows can	Management,
	occur due to inadequate sizing or precipitation.	Spill Prevention
	Locate on-site wash area a minimum of 50  foot over one for an area time by from a decimal decimal.	and Control
	feet away or as far as practicable from storm drain	Section SM-10,
	inlets, open drainage facilities, or water bodies.	and Structure
	Do not dump liquid wastes into the storm	Construction
	drainage system.	and Painting
	Filter and re-use solvents and thinners.	Section SM-21,
	Dispose of oil-based paints and residue as a	Storm Drain
	hazardous waste.	Inlet Protection
	Ensure collection, removal, and disposal of	SC-1, and
	hazardous waste complies with regulations.	Perimeter
	Immediately clean up spills and leaks.	Sediment
	Properly store paints, solvents, and epoxy	Controls where
	compounds.	applicable.
	Properly store and dispose waste materials	
	generated from painting and structure repair and construction activities.	
	Mix paints in a covered and contained area,	
	when possible, to minimize adverse impacts from	
	spills.	
	Do not apply traffic paint or thermoplastic if	
	rain is forecasted.	
	See Material Storage and Handling Use SM-2,	
	Hazardous Materials and Waste Management	
	Section SM-9, Spill Prevention and Control	
	Section SM-10, and Structure Construction and	
	Painting Section SM-21 for additional	
	requirements.	
	Provide Storm Drain Inlet Protection and/or	
	Perimeter Sediment Controls as applicable.	

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Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Industrial	Hazardous chemicals shall be well-labeled and	See Material
chemicals,	stored in original containers.	Storage and
fertilizers,	Keep ample supply of cleanup materials on site.	Handling Use
and/or	Clean up spills immediately, using dry clean-up	Section SM-2,
pesticides	methods where possible, and dispose of used	Stockpile Management
	materials properly.	Section SM-3,
	Do not clean surfaces or spills by hosing the area down.	and Hazardous
	Eliminate the source of the spill to prevent a	Materials and
	discharge or a furtherance of an ongoing	Waste
	discharge.	Management
	Dispose container only after all of the product	Section SM-9,
	has been used.	and Spill
	Retain a complete set of safety data sheets	Prevention and
	(formerly MSDS) on site.	Control SM-10
	Store industrial chemicals in water-tight	
	containers and provide either cover or secondary	
	containment.	
	Provide cover when storing fertilizers or	
	pesticides to prevent these chemicals from coming	
	into contact with rainwater.	
	Restrict amount of pesticide prepared to quantity	
	necessary for the current application.	
	Do not apply fertilizers or pesticides during or	
	just before a rain event.	
	Do not apply to stormwater conveyance     A supply to stormwater conveyance	
	channels with flowing water.	
	Comply with fertilizer and pesticide	
	manufacturer's recommended usage and disposal	
	instructions. Document departures from manufacturer's specifications in Attachment J.	
	<ul> <li>Apply fertilizers at the appropriate time of year</li> </ul>	
	for the location, and preferably timed to coincide as	
	closely as possible to the period of maximum	
	vegetation uptake and growth.	
	Follow federal, state, and local laws regarding	
	fertilizer application.	
	Do not dispose of toxic liquid wastes (solvents,	
	used oils, and paints) or chemicals (additives,	
	acids, and curing compounds) in dumpsters	
	allocated for construction debris.	

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Hazardous	<ul> <li>Ensure collection, removal, and disposal of hazardous waste complies with regulations. Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler. See Material Storage and Handling Use SM-2, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</li> <li>Do not dispose of toxic materials in dumpsters</li> </ul>	See Hazardous
waste (Batteries, Solvents, Treated Lumber, etc.)	<ul> <li>allocated for construction debris.</li> <li>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</li> <li>Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</li> <li>Segregate and recycle wastes from vehicle/equipment maintenance activities such as used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids.</li> <li>Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.</li> <li>All containers stored outside shall be kept away from surface waters and within appropriately sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.</li> <li>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</li> <li>Do not clean surfaces or spills by hosing the area down.</li> <li>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</li> </ul>	Materials and Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	<ul> <li>Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.</li> <li>See Hazardous Materials and Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12 for additional requirements.</li> </ul>	
Metals and Building Materials	<ul> <li>Inspect construction waste and recycling areas regularly.</li> <li>Schedule solid waste collection regularly.</li> <li>If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.</li> <li>Minimize the amount of material stored on site.</li> <li>Do not stockpile uncovered metals or other building materials in close proximity to discharge points.</li> <li>See Solid Waste Management Section SM-6 for additional requirements.</li> </ul>	See Solid Waste Management Section SM-6
Contaminated Soil	<ul> <li>See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9 for additional requirements.</li> <li>At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets.</li> </ul>	See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Fugitive Dust Control and Dust Control Water	<ul> <li>Do not over spray water for dust control purposes which will result in runoff from the area.</li> <li>Apply water as conditions require.</li> <li>Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.</li> <li>Minimize exposed areas through the schedule of construction activities.</li> <li>Utilize vegetation, mulching, sprinkling, and stone/gravel layering to quickly stabilize exposed soil.</li> <li>Direct construction vehicle traffic to stabilized roadways.</li> <li>Cover dump trucks hauling material from the site with a tarpaulin.</li> <li>See Dust Control Section SM-19 for additional requirements.</li> </ul>	See Dust Control Section SM-19
Concrete Truck Wash Water	<ul> <li>Disposal of concrete truck wash water via percolation is prohibited.</li> <li>Wash concrete-coated vehicles or equipment off-site or in the designated wash area.</li> <li>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.</li> <li>Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.</li> <li>The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.</li> <li>Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.</li> <li>Do not dump liquid wastes into storm drainage system.</li> <li>Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.</li> <li>See Waste Management, Concrete Wash and Waste Management Section SM-4 for additional requirements.</li> </ul>	See Waste Management, Concrete Wash and Waste Management Section SM-4

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Sediment Track-Out	<ul> <li>Include Stabilized Construction Entrance at all points that exit onto paved roads.</li> <li>A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.</li> <li>The pavement shall not be cleaned by washing down the street.</li> <li>If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.</li> <li>Use BMPs for adjacent drainage structures.</li> <li>Remove sediment tracked onto the street by the end of the day in which the track-out occurs.</li> <li>Restrict vehicle use to properly designated exit points.</li> <li>Include additional BMPs that remove sediment prior to exit when minimum dimensions cannot be met.</li> <li>See Stabilized Construction Entrance/Exit Section SC-11 for additional requirements.</li> </ul>	See Stabilized Construction Entrance/Exit Section SC-11
Irrigation Water	<ul> <li>Consider irrigation requirements.</li> <li>Where possible, avoid species which require irrigation.</li> <li>Design, timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.</li> <li>See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD-12 Efficient Irrigation included in SWPPP Attachment A for additional requirements.</li> </ul>	See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD- 12 Efficient Irrigation
Hydrotesting Effluent	• If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least thirty (30) calendar days prior to the start of Hydrotesting Activities if necessary. Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.	Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Dewatering Effluent	If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least thirty (30) calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-18 for additional requirements.	See Dewatering Operations SM-18. Site specific BMPs will be included in the NOI/NPDES Permit Form G submittal.
Saw-cutting Slurry	<ul> <li>Saw cut slurry shall be removed from the site by vacuuming.</li> <li>Provide storm drain protection during saw cutting. See Paving Operations Section SM-20 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, Perimeter sediment controls where applicable
Concrete Curing Water	<ul> <li>Avoid overspraying of curing compounds.</li> <li>Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.</li> <li>See California Stormwater BMP Handbook NS-12 Concrete Curing included in SWPPP Attachment A for additional requirements.</li> </ul>	See California Stormwater BMP Handbook NS- 12 Concrete Curing

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Plaster Waste Water	<ul> <li>Direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</li> <li>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of.</li> <li>Plaster waste water shall not be allowed to flow into drainage structures or State waters. See Material, Storage and Handling Use SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</li> </ul>	See Material, Storage and Handling Use Section SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9
Water-Jet Wash Water	<ul> <li>For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.</li> <li>See Vehicle and Equipment Cleaning Section SM-11 for additional information.</li> <li>For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.</li> </ul>	See Vehicle and Equipment Cleaning Section SM-11
Sanitary/Septic Waste	<ul> <li>Locate Sanitary facilities in a convenient place away from drainage facilities.</li> <li>Position sanitary facilities so they are secure and will not be tipped over or knocked down.</li> <li>Wastewater shall not be discharged to the ground or buried.</li> <li>A licensed service provider shall maintain sanitary/septic facilities in good working order.</li> <li>Schedule regular waste collection by a licensed transporter.</li> <li>See Sanitary Waste Section SM-7 for additional requirements.</li> </ul>	See Sanitary Waste Section SM-7.