|  |  |
| --- | --- |
| **QUESTION** | **Application** |
| **SC4.1** | **Is the Temporary Check Dam applied as required (control of storm water through the site)?** |
| **CGP, Attachment C.F, D.F, E.F** | Risk Level 1, 2, 1nd 3 dischargers shall effectively manage all run-on, all runoff within the site and all runoff that discharges off the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance with the effluent limitations in this General Permit. |
| **LTP, VIII.B** | Dischargers shall implement a combination of sediment and erosion controls to prevent or minimize sediment discharges from the site. Control measures shall include, but are not limited to, the following items:  **2.** Install temporary gravel bag dikes, fiber rolls, filter fabric fence, or other equivalent measures as necessary to control erosion and runoff.  **3.** Install temporary check dams such as gravel bag dikes in concentrated flow lines to slow and detain water flows and retain sediment.  **8.** Control storm water volume and velocity within the site to minimize soil erosion and offsite discharges. |

|  |  |
| --- | --- |
|  | **Installation** |
| **SC4.2** | **Is the Type 1 (Fiber Roll) or Type 2 (Gravel Bag) Check Dam Temporary Check Dam installed properly?** |
| **SPECs, 13-6.03B Temporary Check Dams** | Before placing a temporary check dam, remove obstructions, including rocks, clods, and debris greater than 1 inch in diameter from the ground.  If a temporary check dam is to be placed in the same area as an erosion control blanket, install the blanket before placing the dam.  A temporary check dam must be:  1. Placed approximately perpendicular to the centerline of the ditch or drainage line  2. Installed with sufficient spillway depth to prevent flanking of concentrated flow around the ends of the check dam  3. Type 2 if the ditch is lined with concrete or HMA  4. Type 1 or Type 2 if the ditch is unlined  For a Type 1 temporary check dam:  1. Secure the fiber rolls with rope and notched wood stakes as shown.  2. Drive the stakes into the soil until the notch is even with the top of the fiber roll.  3. Lace rope between the stakes and over the fiber roll. Knot the rope at each stake.  4. Tighten by driving the stakes further into the soil and forcing the fiber roll against the surface of the ditch or drainage line.  Place a Type 2 temporary check dam as a single layer of gravel-filled bags, placed end-to-end to eliminate gaps. If you need to increase the height of the dam, add more layers of gravel-filled bags. Stack the bags in the upper row to overlap the joints in the lower row. Stabilize the rows by adding more rows of bags in the lower layers. |
| **See Standard Plan Sheet T57** | Temporary Check Dam |

|  |  |
| --- | --- |
|  | **Materials** |
| **SC4.3** | **Does the Temporary Check Dam consist of the proper materials (fiber roll, gravel bag)?** |
| **SPECs, 13-5.02G Gravel-Filled Bags** | Gravel-filled bags must:  1. Be made of geosynthetic gravel-filled bag.  2. Have inside dimensions from 24 to 32 inches long and from 16 to 20 inches wide.  3. Have a bound opening to keep gravel. The opening must be sewn with yarn, bound with wire, or secured with a closure device.  4. Weigh from 30 to 50 pounds when filled with gravel.  Gravel for gravel-filled bags must be from 3/8 to 3/4 inch in diameter and must be clean and free of clay balls, organic matter, and other deleterious materials. |
| **SPECs, 21-1.02P Fiber Rolls** | Fiber roll must have a minimum functional longevity of 1 year and comply with the following requirements:  1. Type A fiber roll must be fabricated from an erosion control blanket rolled along its width. Secure with natural fiber twine at 6-foot intervals, and 6 inches from each end. Fiber roll size must comply with either one of the following:  1.1. 8 to 10 inches in diameter, 10 to 20 feet long, and at least 0.5 lb/ft  1.2. 10 to 12 inches in diameter, at least 10 feet long, and at least 2 lb/ft  2. Type B fiber roll must be a premanufactured roll filled with rice or wheat straw, wood excelsior, or coconut fiber. Rolls must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end. Fiber roll size must comply with either one of the following:  2.1. 8 to 10 inches in diameter, 10 to 20 feet long, and at least 1.1 lb/ft  2.2. 10 to 12 inches in diameter, at least 10 feet long, and at least 3 lb/ft |
| **SPECs, 21-1.02R Fasteners** | Wood stakes must be untreated fir, redwood, cedar, or pine and cut from sound timber. The ends must be pointed for driving into the ground. Notched stakes must be at least 1 by 2 by 24 inches in size. Stakes without notches must be at least 1 by 1 by 24 inches.  Metal stakes must be at least 1/2 inch in diameter and have tops bent at 90-degree angles or capped with an orange or red plastic safety cap that fits snugly onto the metal stake.  Rope to fasten fiber rolls and compost socks must be 1/4 inch in diameter and biodegradable, such as sisal or manila. |

|  |  |
| --- | --- |
|  | **Maintenance** |
| **SC4.4** | **Is the Temporary Check Dam maintained properly?** |
| **CGP, Attachment D.E.6; E.E.6** | Risk Level 2 and 3 dischargers shall ensure that all storm drain inlets and perimeter controls, runoff control BMPs, and pollutant controls at entrances and exits (e.g. tire washoff locations) are maintained and protected from activities that reduce their effectiveness. |
| **CGP, Order IV.E Proper Operation and Maintenance** | The discharger shall at all times properly operate and maintain any facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with the conditions of this General Permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance may require the operation of backup or auxiliary facilities or similar systems installed by a discharger when necessary to achieve compliance with the conditions of this General Permit. |

