

Storm Water: BMP's (Control Measure) Inspection 20220620

Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division VIII: Roadside Development

Title: Storm Water: BMP (Control Measure) Inspection

Contractor NOI (Authorization) Number:
ADOT NOI (Authorization) Number:
Contractor ECC Name:
ADOT ECC Name:
Location:
Disturb Acres:
Rain Event:

Attribute Number	Compliance	Narrative	Reference
0.		<p>The Contractor's Erosion Control Coordinator (ECC) is maintaining the Storm Water Pollution Prevention Plan (SWPPP) along with all completed inspection forms and other required NPDES / AZPDES documentation.</p> <p>Special Provisions 104.09 (B) (2) <u>AZG2020-001 Construction General Permit</u> Page 37 Part 6.4 <u>AZG2020-001 Construction General Permit</u> Page 38 Part 6.5 <u>2022 EPA Construction General Permit</u> Page 34 Part 4.7.3</p>	Construction General Permit
1.		<p>Any changes to the SWPPP are approved by the Engineer and documented in the SWPPP.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 38 part 6.5 <u>Construction Bulletin</u> 13-02</p>	Standard Specifications 2021 104.09

Storm Water: BMP's (Control Measure) Inspection 20220620

2.	<p>Contractor Notice of Intent (NOI) (Authorization Number) for Storm Water discharge is posted. The approval date and ADEQ/EPA authorization number must be included.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 39 Part 6.7.1 <u>2022 EPA Construction General Permit</u> Page 7 Part 1.5</p>	<p>Standard Specifications 2021 104.09</p>
3.	<p>ADOT Notice of Intent (NOI) for stormwater discharge is posted. The approval date and ADEQ/EPA authorization number must be included.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 39 Part 6.7.1 <u>2022 EPA Construction General Permit</u> Page 7 Part 1.5</p>	<p>Standard Specifications 2021 104.09</p>
4.	<p>The location where the SWPPP may be viewed and the name and telephone number of a contact person for scheduling viewing are posted with the NOIs at the job site. {Lettering must be 2-Inches or greater}</p> <p><u>AZG2020-001 Construction General Permit</u> Page 39 Part 6.7.2 <u>2022 EPA Construction General Permit</u> Page 46 Part 7.3</p>	<p>Construction General Permit</p>
5.	<p>The contractor has not exposed an area greater than 750,000 Square Feet (17.2 acres) at any one location within the project limits until each sub-area has been stabilized unless otherwise approved by the Engineer and documented in the SWPPP.</p>	<p>Special Provisions 104.09 (B) (2)</p>
6.	<p>Major construction activities/erosion control measures in any sub-area are documented and updated in the SWPPP with copies submitted to the Engineer within "Seven" working days of completion.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 38 Part 6.5 <u>2022 EPA Construction General Permit</u> Page 34 Part</p>	<p>Special Provisions 104.09 (B)</p>
7.	<p>The Contractor shall inform the Engineer when each inspection will be performed. A minimum of 72 hours in advance, so the Engineer can jointly perform the inspection if desired. {Or has submitted a schedule when Inspection will be completed}</p>	<p>Special Provisions 104.09 (B) (2)</p>

Storm Water: BMP's (Control Measure) Inspection 20220620

8.		<p>The Contractor is monitoring rainfall with a commercially manufactured rain gauge accurate to within 0.10 inches of rain, with results filed in the SWPPP, and copies submitted to the Engineer weekly. {ADEQ /EPA CGP has an Option to use a weather station for readings.}</p> <p><u>AZG2020-001 Construction General Permit</u> Page 26 Part 4.2 <u>2022 EPA Construction General Permit</u> Page 29 Part 4.2.2, Page 33 Part 4.7.1.d, and Page 44 Part 7.2.7.b</p>	Special Provisions 104.09 (B) (2)
9.		<p>No clearing, grubbing, earthwork, or other work elements affected by the requirements in the SWPPP are started until areas of environmental importance are marked.</p> <p><u>40 CFR 122.26 (b) (15) (ii)</u></p>	Special Provisions 104.09 (A)
10.		<p>The Joint inspections are specified in the approved SWPPP {every 7- calendar (but not within 5 calendar days of the previous inspection - ADEQ) or 14- calendar days (but not within 10 calendar days of the previous inspection - ADEQ), or 30-days} being followed. The report noted the names of individuals present.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 26 Part 4.2.1 <u>2022 EPA Construction General Permit</u> Page 28 Part 4.2 <u>Construction Bulletin 13-02</u></p>	Special Provisions 104.09 (B) (1)
11.		<p>Joint inspections by ECC and ADOT are conducted within 24 hours of any storm event of 0.25-Inch for EPA or 0.50-inch (ADEQ 7 or 14 Calendar days) or 0.25-Inch once a month (ADEQ) but not within 14- calendar the last storm. The ECC documents the inspection with the names of the individuals present.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 26 Part 4.2.1 <u>2022 EPA Construction General Permit</u> 4.2. Page 28 Part 4.2 <u>Construction Bulletin 13-02</u></p>	Special Provisions 104.09 (B) (1)

Storm Water: BMP's (Control Measure) Inspection 20220620

12.		<p>A site is inactive and unstaffed that will have an anticipated period of no construction activity for at least six consecutive months. During the time the site is inactive and unstaffed, the operator shall perform an inspection at least once every six months and within 24 hours of each storm event of 0.5-inch or greater in 24 hours.</p> <p><u>AZG2020-001 Construction General Permit Page 27 Part 4.2</u></p>	Special Provisions 104.09 (B) (1)
13.		<p>Frozen conditions: Inspections may be temporarily suspended on a site until thawing conditions (as defined in Appendix A) begin to occur if, for at least three (3) months, you may reduce your inspection frequency to once per month if Land disturbances have been suspended.</p> <p><u>AZG2020-001 Construction General Permit Page 27 Part 4.2.2</u> <u>2022 EPA Construction General Permit Page 31 Part 4.4.3</u></p>	Special Provisions 104.09 (B) (1)
14.		<p>Complete and accurate Compliance Evaluation/Inspection Reports are prepared and signed by the ECC and the Engineer for each inspection, filed in the Contractor's SWPPP, with a copy to the Engineer.</p> <p><u>AZG2020-001 Construction General Permit Page 28 Part 4.4</u> <u>2022 EPA Construction General Permit Page 24 Part 4.7.2</u> <u>Construction Bulletin 13-02</u></p>	Special Provisions 104.09 (B) (1)
15.		<p>Maricopa County Only. Track-out pads are used on all projects greater than two acres, or 100 cubic yards or more of bulk materials entering or leaving the site each day. For all other areas, meets the current Construction General Permits</p> <p><u>Maricopa County Rule PP-2011-002</u> <u>AZG2020-001 Construction General Permit Page 21 Part 3.5.3</u> <u>2022 EPA Construction General Permit Page 9 Part 2.1.3</u></p>	Maricopa County Rule PP-2011-002

Storm Water: BMP's (Control Measure) Inspection 20220620

16.		<p>Control Measure/BMPs to intercept and divert upslope run-on storm water or to protect fill slopes are properly installed before excavation and embankment activities.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 13 Part 3.3 <u>2022 EPA Construction General Permit</u> Page 8 Part 2.1 or Page 10 Part 2.2 or Page 17 Part 2.3 <u>Construction Storm Water Field Guide</u> Chapter 3 Page 34 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 129 Details SC-1</p>	Special Provisions 104.09 (A)
17.		<p>For sites that require Sedimentation Basins: are properly constructed or are redesigned with an explanation of why they were not attainable and included in the SWPPP.</p> <p>Plan Sheet or Approved SWPPP <u>2022 EPA Construction General Permit</u> Page 13 Part 2.2.12 <u>AZG2020-001 Construction General Permit</u> Page 14 Part 3.3.3 <u>2022 EPA Construction General Permit</u> Page 34 Part 4.7.3 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 141 Details SC-4</p>	Special Provisions 104.09 (A)
18.		<p>Sediment in traps, sedimentation ponds, or other structural Control Measures or BMPs is removed when capacity is reduced by one-third (EPA by one-half).</p> <p>Plan Sheet or Approved SWPPP <u>2012 Erosion and Pollution Control Manual</u> Chapter 5.3 Page 51 Detail CP-2 <u>AZG2020-001 Construction General Permit</u> Page 13 Part 3.3.3.b <u>2022 EPA Construction General Permit</u> Part 2.2.12 (F) Page 13</p>	Special Provisions 104.09 (A)
19.		<p>Any direct discharge of sediment into a watercourse is corrected by the end of the same day or work shift in which it is observed. If it is WOTUS, then Section 404 permit conditions would apply.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 30 Part 5</p>	Special Provisions 104.09 (A)
20.		<p>Sediment Control Berms are constructed per plan detail.</p> <p>Plan Sheet or Approved SWPPP <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 129 Details SC-1</p>	Plans Detail Sheet ES6

Storm Water: BMP's (Control Measure) Inspection 20220620

21.		<p>Mini Benches are constructed on all soil and/or rock slopes that per plan are parallel to contours as the cut is being constructed. (Normally slopes 2:1 or steeper)</p> <p>Plan Sheet or Approved SWPPP <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 77 Details EC-2</p>	Plans Detail Sheet ES8
22.		<p>Sediment Logs are installed in accordance with the plan's details and secured with 1-inch x 1-inch x 46-inch hardwood stakes-placed 2-foot on centers.</p> <p>Plan Sheet or Approved SWPPP <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 149 Details SC-6</p>	Plans Detail Sheet ES1
23.		<p>Sediment Logs installed in cut ditches or other drainage channels (avoid rocky ditch areas as per the direction of the Engineer) are perpendicular to the flow of water and continue up the channel side slope a minimum of one foot above the flow line.</p> <p><u>Plan Sheet</u> or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 149 Details SC-6</p>	Plans Detail Sheet ES1
24.		<p>Rock Mulch wedges approximately 12-inch wide/5-inches high are tamped against both upstream/downstream sides of Sediment Logs to prevent undermining.</p> <p>Plan or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 149 Details SC-6 <u>Standard Specifications</u> 810-2.03 Page 1008 <u>Standard Specifications</u> 913-2.01 Page 1068</p>	Plans Detail Sheet ES1
25.		<p>Rock mulch Check Dams are used instead of sediment logs at locations where anchoring with stakes is impractical, i.e., in rocky terrain where stakes cannot be driven.</p> <p><u>Plan</u> Sheets or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 123 Details RC-6 <u>Standard Specifications</u> 810-2.03 Page 1008 <u>Standard Specifications</u> 913-2.01 Page 1068</p>	Plans Detail Sheet ES10
26.		<p>Rock Mulch materials shall be fractured/crushed rocks in angular shape for effective erosion/sediment control and energy/velocity dissipation.</p> <p><u>Plan</u> Sheets or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 123 Details RC-6 <u>Standard Specifications</u> 810-2.03 Page 1008 <u>Standard Specifications</u> 913-2.01 Page 1068</p>	Plans Detail Sheet ES10

Storm Water: BMP's (Control Measure) Inspection 20220620

27.	<p>Sediment Wattles are installed per the detail shown on the plans, or as directed by the Engineer, and secured with wooden stakes driven a minimum of 12 inches into the soil at a maximum of 5 feet on center.</p> <p><u>Plan Sheet</u> or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 145 Details SC-5</p>	Plans Detail Sheet ES3
28.	<p>Sediment Wattles installed in trenches follow parallel contours (level) across the slope. The excavated trench material is placed against the upstream side and tamped to prevent undermining. (2"-maximum depth)</p> <p><u>Plan Sheet</u> or Approved <u>SWPPP</u> <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 145 Details SC-5</p>	Plans Detail Sheet ES3
29.	<p>Wheat Straw products are certified to be free of noxious weeds by the Arizona Crop Improvement Association (ACIA) or the North American Weed Management Association (NAWMA).</p> <p><u>Standard Specifications</u> 810-2.06 (C) Page 1012 <u>Standard Specifications</u> 810-2.05 (B) Page 1011</p>	Standard Specifications 2021 810-2.05 (B)
30.	<p>Gravel bags when used are filled with clean, washed decomposed granite (DG) and free of silt/dust; or equivalent clean washed angular shape aggregate/gravel material per the Special Provisions or the approved SWPPP.</p> <p><u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 145 Details SC-7</p>	Plans Detail Sheet ES3
31.	<p>Silt fences are properly installed parallel to horizontal contours; with the filter, the fabric has been buried a minimum of 20 inches in a "J" shape, as detailed on the approved SWPPP or project plans.</p> <p><u>Approved SWPPP Detail</u> <u>Special Provisions</u> 810-2.01 <u>2012 Erosion and Pollution Control Manual</u> Chapter 5.3 Page 153 Detail SC-7</p>	Plans Detail Sheet ES7
32.	<p>Complete and accurate certificates of compliance are on file for silt fence components.</p> <p><u>Standard Specifications</u> Section 810-2.01 Page 1007 <u>Standard Specifications</u> Section 915-3 Page 1091 <u>Standard Specifications</u> Section 1014-1 Page 1237 <u>Standard Specifications</u> Section 1014-8 Page 1243</p>	Standard Specifications 2021 810-2.01

Storm Water: BMP's (Control Measure) Inspection 20220620

33.		<p>Control Measures or BMPs are properly installed per the plan's details or following the manufacturer's recommendations.</p> <p><u>Approved SWPPP Detail</u></p>	Plans Detail Sheet
34.		<p>Certified laboratory test results are on file for compost mulch material's microbiological and nutrient content.</p> <p><u>Standard Specifications 810-2.02 Page 1007</u></p>	Standard Specifications 2021 810-2.02
35.		<p>Control Measures or BMPs are functioning properly.</p>	Approved SWPPP
36.		<p>When Control Measures or BMPs or other measures are not functioning properly, they are replaced or adjusted/maintained within 7-calendar days (from the time of discovery), or before the next anticipated storm event (whichever is sooner) and documented in the SWPPP.</p> <p><u>AZG2020-001 Construction General Permit Page 30 Part 5.2</u> <u>2022 EPA Construction General Permit Page 35 Part 5.2</u></p>	Construction General Permit
37.		<p>Erosion Control Blanket products are correctly installed. A qualified representative is on-site at the start of the installation.</p> <p>Plans or the Approved SWPPP Detail E12 <u>2020 Erosion and Pollution Control Manual Chapter 5 Page 89 Details EC-5</u></p>	Special Provisions 810-3.05
38.		<p>Certificates of compliance are on file for all erosion control products, including blanket products.</p>	Standard Specifications 2021 810-2.05
39.		<p>Stabilization of disturbed areas has been initiated (are in place) within 14-calendar days after disturbance (construction) activity has temporarily or permanently ceased within sub-areas unless otherwise approved by the Engineer and documented in the SWPPP.</p> <p><u>AZG2020-001 Construction General Permit Page 18 Part 3.4</u> <u>2022 EPA Construction General Permit Page 15 Part 2.2.15</u></p>	Construction General Permit

Storm Water: BMP's (Control Measure) Inspection 20220620

40.		<p>For pipe inlet and outlet protection, headwall and wing wall treatment, and check dams; Rock Mulch/Riprap materials are fractured/crushed rocks in angular shape. River-run, rounded natural river rocks/cobblestones/pebbles are not acceptable.</p> <p>Plans or the Approved SWPPP Detail E12 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 157 Detail SC-8 <u>Standard Specifications</u> Section 810-2.03 Page 1008 <u>Standard Specifications</u> Section 913-2.01 Page 1068</p>	<p>Standard Specifications 2021 810-2.03</p>
41.		<p>For cut and fill transitions; Rock Mulch/Riprap materials are fractured/crushed rocks in angular shape for effective erosion/sediment control and energy/velocity. River-run, rounded natural river rocks/cobblestones/pebbles are not acceptable.</p> <p>Plans/Approved SWPPP Detail E12 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 157 Detail SC-8 <u>Standard Specifications</u> Section 810-2.03 Page 1008 <u>Standard Specifications</u> Section 913-2.01 Page 1068</p>	<p>Standard Specifications 2021 810-2.03</p>
42.		<p>Rock riprap/rock mulch is correctly sized. (Pipe inlet, and outlet protection, headwall and wing wall, and check dams; Gradation "C". Cut and fill transitions; Gradation "A" or "B").</p> <p>Plans or the Approved SWPPP Detail E12 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 157 Detail SC-8</p>	<p>Standard Specifications 2021 810-2.03</p>
43.		<p>Permanent drainage erosion control measures and scour protection such as riprap are installed as soon as possible after the completion of the drainage structure.</p> <p>Plans or the Approved SWPPP Detail E12 <u>2020 Erosion and Pollution Control Manual</u> Chapter 5 Page 89 Detail EC-5</p>	<p>Plan Sheets</p>
44.		<p>Complete and accurate certificates of compliance material reports are on file for all Control Measures / BMP's materials and devices.</p> <p><u>Standard Specifications</u> 105.05 B Page 90</p>	<p>Standard Specifications 2021 106.05 B</p>
45.		<p>The approved Monitoring and Sampling and Analysis Plan is being followed.</p> <p>Approved SWPPP <u>AZG2020-001 Construction General Permit</u> Page 41 Part 7.2 <u>2022 EPA Construction General Permit</u> Page 46 Part 7.3</p>	<p>Special Provisions 104.09 (B) (2) (a)</p>

Storm Water: BMP's (Control Measure) Inspection 20220620

46.	<p>The Contractor has the correct number of Sampling Sites.</p> <p>Approved SWPPP <u>AZG2020-001 Construction General Permit</u> Page 42 Part 7.3.3 <u>2022 EPA Construction General Permit</u> Page 46 Part 7.4</p>	Special Provisions 104.09 (B) (2) (a)
47.	<p>The team identified in the SWPPP; is performing activities necessary to comply with the permit; installation, maintenance, and/or repair of storm water controls; storage of chemicals (if applicable); conducting inspections as required in Part 4.1; and corrective actions as required in Part 5, are performing the work.</p> <p><u>2022 EPA Construction General Permit</u> Page 36 Part 6 <u>AZG2020-001 Construction General Permit</u> Part 6.3.1 Page 33, Part 7.2 Page 42</p>	Construction General Permit
48.	<p>The operator shall provide qualified personnel (as defined in Appendix A) to perform inspections according to the selected inspection schedule identified in the SWPPP.</p> <p><u>AZG2020-001 Construction General Permit</u> Page 26 Part 4.1 <u>AZG2020-001 Construction General Permit</u> Appendix A Page 50</p>	Construction General Permit
49.	<p>Whenever it is determined that the SWPPP is ineffective in eliminating or significantly minimizing pollutant discharges, or contributing to water quality exceedances, the SWPPP document is amended within 7-calender days (ADEQ deficient is 15 days).</p> <p><u>AZG2020-001 Construction General Permit</u> Page 39 Part 6.6 <u>2022 EPA Construction General Permit</u> Page 46 Part 7.4</p>	Special Provisions 104.09 (B)
50.	<p>Quantlist Minimum Frequency is being followed, once every week or two weeks or rain event or noted in the Special Provisions/Plan.</p>	Construction Bulletin 07-01

Notes for review:

Weights:

Minor – nonconformities resulting in some reduction of operability, durability, increased life cycle costs, or minor environmental impacts.

Major – nonconformities resulting in a substantial reduction of operability, durability increased life cycle cost, or major environmental impacts.

Storm Water: BMP's (Control Measure) Inspection 20220620

Critical – nonconformities which warrant immediate action including those that pose a high risk to public safety.