

Storm Water General Permits



New Industrial Sector SW Permits for Asphalt Plants

- Issued by DEQ Effective July 1, 2014
- Replaces Permits Issued July 1, 2009
- Five Year Duration

New SW Permits for Asphalt Plants (Cont.)

Exemptions from Permitting Remain the Same

- No SW Discharge from the Facility
- Sheet Flow Runoff (no ability to sample)

New SW Permits for Asphalt Plants (Cont.)

- Preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP) remains as the primary requirement under the new permit
- All Asphalt Plants should have an SWPPP that is in place under the Permit Issued in 2009
- Old plan needs to be updated w/in 90 days of permit issuance (by now)
- There are some changes that affect asphalt plants

New SW Permits for Asphalt Plants (Cont.)

Sampling

- Asphalt Plants will continue to have a benchmark limit of 100 ppm for total suspended solids (TSS)
- Discharges must be sampled twice a year instead of once
- First Discharge Monitoring Report is due by Jan. 10, 2015 for the monitoring period from July 1 – Dec. 31, 2014
- Next DMR due by July 10, 2015 for the next 6 month period
- If first two years sampling are compliant or the average of the four samples is compliant, further sampling can be waived for the rest of the permit term

New SW Permits for Asphalt Plants (Cont.)

Sampling

- Chesapeake Bay has been designated as “Impaired Waters” for nitrogen, phosphorus and sediment
- Facilities located in the Chesapeake Bay watershed must test for total nitrogen and total phosphorus during the first two years of sampling (4 times)
- Discharges to municipal separate storm sewer systems (MS₄) – Permit holder must submit a DMR to the MS₄ operator at same time as to DEQ – A list of regulated MS₄'s can be found at <http://www.deq.Virginia.gov/Programs/Water/StormwaterManagement/VSMPPPermits/MS4Permits.aspx>

New SW Permits for Asphalt Plants (Cont.)

Sampling

- Measurable storm event is now any discharge vs. ¼ inch of rain
- Sampling window is extended to 3 hours from onset of discharge if not practicable to sample during the first thirty minutes of discharge – must document
- Samples must be tested by a certified laboratory
- Limit or benchmark exceedances for TMDL facilities must have a corrective action plan prepared and submitted to DEQ w/in 30 days (replaces follow-up monitoring requirement)

New SW Permits for Asphalt Plants (Cont.)

Sampling

- Greater flexibility allowed for waiving sampling when not practicable (e.g. – during thunderstorm, snowstorm, darkness, flooding, etc.) - document
- E-DMR submittal to DEQ is available

New SW Permits for Asphalt Plants (Cont.)

Other Changes

- For any plant expansions where the discharge is to Impaired Waters it must be demonstrated that there will be no increase in pollutant loadings above what was present before expansion
- Documentation must be provided in the SWPPP that shows the measures taken will result in no net increase in loadings

New SW Permits for Asphalt Plants (Cont.)

Other Changes

- Annual training sessions for employees and new hires
- Quarterly visual site evaluations are still required
- Comprehensive site evaluations during storm events **while discharge is occurring** at least once per year
- Can be in conjunction with sampling event
- Document and keep with SWPP

New SW Permits for Asphalt Plants (Cont.)

Storm Water Control Measures

- Good housekeeping
- Minimizing exposure of pollutants to rain events and runoff
- Preventive maintenance
- Spill prevention and response procedures (oil should be covered under ODCP)
- Employee Training
- Runoff Management/sediment control measures

New SW Permits for Asphalt Plants (Cont.)

Storm Water Control Measures

- Rock filters
- Sediment collection areas to settle out solids
- Grading of site to minimize velocity of runoff
- Isolating sources (e.g. stockpiles) with berms or other measures
- Dust suppression (mostly covered by air permit)
- Commercial filter systems (starts to get expensive)
- Vegetative swales, bio retention ponds and other control types
- See link:
<http://www.ncdot.gov/programs/environment/stormwater/download/ExamplesofStormwaterControlDevices08.pdf> for more info

New SW Permits for Asphalt Plants (Cont.)

- Some relief from visual inspection requirements may be granted by having an active Virginia Environmental Excellence program
- There is a DEQ speaker on this topic

Important Industry Actions

- Have a current and effective SWPPP
- Document actions taken
- These are the most common violations of storm water permits