



PAG-03
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR DISCHARGES OF
STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY
FACT SHEET

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*, the Department of Environmental Protection (DEP) is authorizing the discharge of stormwater associated with industrial activity to surface waters of the Commonwealth under the PAG-03 General Permit. The purpose of this document is to explain the basis for the terms and conditions of the reissued PAG-03 General Permit, in accordance with 25 Pa. Code § 92a.53 (relating to documentation of permit conditions). In general, efforts were made by DEP to make the reissued PAG-03 General Permit more consistent with EPA's NPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP), which was reissued in 2015.

DEP published notice of the availability of a draft PAG-03 General permit in the *Pennsylvania Bulletin* on October 17, 2015 [45 Pa.B. 6245]. A 30-day comment period was provided, and interested parties were directed to submit comments to DEP's eComment system or by e-mail to ecomment@pa.gov. The comment period ended on November 16, 2015. DEP received comments and questions from 41 different individuals and organizations during the comment period, and has developed a separate comment-response document. The reissued PAG-03 General Permit described in this document supersedes the PAG-03 General Permit that was issued on December 5, 2010 (i.e., previous PAG-03 General Permit). The previous PAG-03 General Permit was administratively extended for one year to December 4, 2016. Permittees with permit coverage under the previous PAG-03 General Permit are automatically covered by the reissued PAG-03 General Permit on the date the General Permit is published in the *Pennsylvania Bulletin*.

SCOPE

The PAG-03 General Permit is intended to provide NPDES permit coverage for discharges of stormwater associated with industrial activity, as defined at 40 CFR § 122.26(b)(14) (excluding §§ 122.26(b)(14)(iii) for mineral industry, 122.26(b)(14)(ix) for sewage treatment works and 122.26(b)(14)(x) for stormwater associated with construction activity), and other industrial stormwater discharges that may be required to obtain a permit under Pennsylvania's Clean Streams Law. An industrial facility that already has or is required to obtain an individual NPDES permit for non-stormwater discharges may not use the PAG-03 General Permit for coverage of its stormwater discharges, as the stormwater discharges are incorporated into the individual permit. See "Discharges Not Authorized by the PAG-03 General Permit" below for additional criteria that limit coverage under the PAG-03 General Permit.

Industrial facilities that are required to obtain NPDES permit coverage for its stormwater discharges, and also have periodic non-stormwater discharges, may be eligible for PAG-03 General Permit coverage if the non-stormwater discharges are limited to the following (authorized non-stormwater discharges):

- Discharges from emergency/unplanned fire-fighting activities;
- Potable water, including water line flushings and fire hydrant flushings, that do not contain measurable concentrations of Total Residual Chlorine (TRC);
- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors (if treatment through an oil/water separator is provided) and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape water if such water does not contain pesticides, herbicides or fertilizers;
- Pavement wash waters where no detergents or hazardous cleaning products are used, and the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities, or any other toxic or hazardous materials;
- Routine external building washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of a facility, but not intentional discharges from the cooling tower; and
- Other non-stormwater discharges, if identified in the sector-specific appendix of PAG-03.

The PAG-03 General Permit contains Parts A, B and C, which apply to all facilities, and appendices that are sector-specific. Table 1 below identifies the PAG-03 appendices, the SIC codes and industrial activities that are subject to the requirements in those appendices, and the source of the requirement for NPDES permit coverage (or otherwise No Exposure Certification). Facilities whose primary industrial activities do not fall within the SIC codes of a given appendix, but the activities are nonetheless similar, may be specified by DEP as needing to comply with that appendix.

Table 1 – Industrial Activities and Corresponding PAG-03 Appendices

PAG-03 Appendix	SIC Code	Industrial Activity	Source
A – Hazardous Waste Treatment, Storage or Disposal Facilities	4953 and others	Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA	40 CFR § 122.26(b)(14)(iv)
B – Primary Metals	3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills	40 CFR § 122.26(b)(14)(ii)
	3321-3325	Iron and Steel Foundries	
	3331-3339	Primary Smelting and Refining of Nonferrous Metals	
	3341	Secondary Smelting and Refining of Nonferrous Metals	
	3351-3357	Rolling, Drawing, and Extruding of Nonferrous Metals	
	3363-3369 3398, 3399	Nonferrous Foundries (Castings) Miscellaneous Primary Metal Products	
C – Landfills and Land Application Sites	4953 and others	All Landfill and Land Application Sites that receive or have received industrial wastes	40 CFR § 122.26(b)(14)(v)
D – Timber Products	2411	Log Storage and Handling	40 CFR § 122.26(b)(14)(ii)
	2421	General Sawmills and Planing Mills	
	2426	Hardwood Dimension and Flooring Mills	
	2429	Special Product Sawmills, Not Elsewhere Classified	
	2431-2439 (except 2434)	Millwork, Veneer, Plywood, and Structural Wood	
	2441	Nailed and Lock Corner Wood Boxes and Shook	
	2448	Wood Pallets and Skids	
	2449	Wood Containers, Not Elsewhere Classified	
	2451, 2452	Wood Buildings and Mobile Homes	
	2491	Wood Preserving	
	2493	Reconstituted Wood Products	
2499	Wood Products, Not Elsewhere Classified		
E – Paper and Allied Products	2611	Pulp Mills	40 CFR § 122.26(b)(14)(ii)
	2621	Paper Mills	
	2631	Paperboard Mills	
	2652-2657	Paperboard Containers and Boxes	
	2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes	

PAG-03 Appendix	SIC Code	Industrial Activity	Source
F – Chemicals and Allied Products	2812-2819	Industrial Inorganic Chemicals	40 CFR § 122.26(b)(14)(ii)
	2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass	
	2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; in vitro and in vivo Diagnostic Substances; and Biological Products, Except Diagnostic Substances	40 CFR § 122.26(b)(14)(xi)
	2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations	40 CFR § 122.26(b)(14)(ii)
	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	
	2861-2869	Industrial Organic Chemicals	
	2873-2879	Agricultural Chemicals	
	2891-2899	Miscellaneous Chemical Products	
	2911	Petroleum Refining	40 CFR § 122.26(b)(14)(xi)
3952	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors		
G – Air Transportation Facilities	4512-4581	Air Transportation Facilities	40 CFR § 122.26(b)(14)(viii)
H – Steam Electric Generating Facilities	4911	Steam Electric Generating Facilities, including coal handling sites	40 CFR § 122.26(b)(14)(vii)
I – Food and Kindred Products	2011-2015	Meat Products	40 CFR § 122.26(b)(14)(xi)
	2021-2026	Dairy Products	
	2032-2038	Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties	
	2041-2048	Grain Mill Products	
	2051-2053	Bakery Products	
	2061-2068	Sugar and Confectionery Products	
	2074-2079	Fats and Oils Products	
	2082-2087	Beverages	
	2091-2099	Miscellaneous Food Preparations and Kindred Products	
2111-2141	Tobacco Products		
J – Additional Facilities	Various	Other stormwater discharges designated as needing a permit or any facility discharging stormwater associated with industrial activity not described by any other appendix.	40 CFR § 122.26(a)(9)(i)(C) & (D) and or Pennsylvania Clean Streams Law
K – Existing Salt Storage and Distribution Sites	Various	Salt Storage and Distribution Piles	Pennsylvania Clean Streams Law
L – Land Transportation and Petroleum Stations and Terminals	4011, 4013	Railroad Transportation	40 CFR § 122.26(b)(14)(viii)
	4111-4173	Local and Highway Passenger Transportation	
	4212-4231	Motor Freight Transportation and Warehousing	
	4311	United States Postal Service	
	5171	Petroleum Bulk Stations and Terminals	

PAG-03 Appendix	SIC Code	Industrial Activity	Source
M – Asphalt Paving, Roofing Materials and Lubricants	2951, 2952	Asphalt Paving and Roofing Materials	40 CFR § 122.26(b)(14)(ii)
	2992, 2999	Miscellaneous Products of Petroleum and Coal	
N – Glass, Clay, Cement, Concrete and Gypsum Products	3211	Flat Glass	40 CFR § 122.26(b)(14)(ii)
	3221, 3229	Glass and Glassware, Pressed or Blown	
	3231	Glass Products Made of Purchased Glass	
	3241	Hydraulic Cement	
	3251-3259	Structural Clay Products	
	3261-3269	Pottery and Related Products	
	3271-3275	Concrete, Gypsum, and Plaster Products	
	3281	Cut Stone and Stone Products	
3291-3299	Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products		
O – Automobile Salvage Yards	5015	Automobile Salvage Yards	40 CFR § 122.26(b)(14)(vi)
P – Scrap and Waste Recycling Facilities	5093	Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling	40 CFR § 122.26(b)(14)(vi)
	5093	Source-Separated Recycling Facility	
Q – Textile Mills, Apparel and Other Fabric Products	2211-2299	Textile Mill Products	40 CFR § 122.26(b)(14)(xi)
	2311-2399	Apparel and Other Finished Products Made from Fabrics and Similar Materials	
	3131-3199	Leather and Leather Products	
R – Printing and Publishing	2711-2796	Printing, Publishing, and Allied Industries	40 CFR § 122.26(b)(14)(xi)
S – Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries	3011	Tires and Inner Tubes	40 CFR § 122.26(b)(14)(xi)
	3021	Rubber and Plastics Footwear	
	3052, 3053	Gaskets, Packing and Sealing Devices, and Rubber and Plastic Hoses and Belting	
	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified	
	3081-3089	Miscellaneous Plastics Products	
	3931	Musical Instruments	
	3942-3949	Dolls, Toys, Games, and Sporting and Athletic Goods	
	3951-3955 (except 3952)	Pens, Pencils, and Other Artists' Materials	
	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal	
3991-3999	Miscellaneous Manufacturing Industries		
T – Leather Tanning and Finishing	3111	Leather Tanning and Finishing	40 CFR § 122.26(b)(14)(ii)
U – Fabricated Metal Products	3411-3499	Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services.	40 CFR § 122.26(b)(14)(xi)
	3911-3915	Jewelry, Silverware, and Plated Ware	

If the SIC code characterizing the primary industrial activity is not listed above and/or industrial activities are not similar to those above, but all other eligibility requirements for PAG-03 General Permit coverage are met, DEP may allow PAG-03 coverage under Appendix J; otherwise, the facility will need to apply for individual permit coverage.

The discharge of stormwater associated with industrial activity into a storm sewer prior to discharge to surface waters does not alleviate the requirement to apply for NPDES permit coverage or No Exposure Certification, regardless of whether a permit has been issued to cover stormwater discharges from the storm sewer. For example, an industrial site whose activities fall into the definition of stormwater associated with industrial activity and discharges stormwater to

a municipal separate storm sewer system (MS4) permitted by DEP cannot claim that their stormwater discharges are covered by the MS4's NPDES permit; separate coverage for the industrial site is required. However, stormwater discharges to a separate or combined sanitary sewer system do not require independent permit coverage.

The NOI form (3850-PM-BCW0083b) must be completed by all persons seeking new, renewed or amended coverage under the PAG-03 General Permit. In addition, the NOI must be completed by all persons seeking new or renewed No Exposure Certification approval from DEP (except those sections of the NOI that do not apply to No Exposure).

NOI REQUIREMENTS

Facilities seeking coverage under the PAG-03 General Permit shall submit an administratively complete and acceptable NOI at least 60 days prior to the planned date for commencing any new discharge. A facility authorized to discharge under an individual NPDES permit who is seeking coverage under this General Permit may continue to discharge in accordance with the individual permit while DEP reviews the NOI and associated documents for coverage under this General Permit.

The intent of DEP in issuing the PAG-03 General Permit is that once approval to operate under the General Permit has been authorized by DEP, an NOI to renew coverage is not required unless specified by DEP in writing. This determination was based on the low potential for toxic or conventional pollutants in stormwater discharges where best management practices (BMPs) prescribed by the PAG-03 General Permit are implemented. Coverage will continue as long as DEP reissues the General Permit and compliance with the General Permit is maintained. Notice of each approval of coverage and reissuance of the PAG-03 General Permit will be published by DEP in the *Pennsylvania Bulletin*.

The NOI fee for coverage under this General Permit is \$500 per year the permittee operates under the General Permit. The initial \$500 is paid with the NOI for new permit coverage, and then an installment of \$500 will be paid each year, to be submitted with an annual report due on May 1, if stormwater discharges have not been terminated by the annual report due date.

DISCHARGES NOT AUTHORIZED BY THIS GENERAL PERMIT

The following discharges are not authorized under this General Permit, and DEP may deny coverage under this General Permit when one or more of the following conditions exist:

1. Stormwater discharges that, individually or in combination with other similar discharges, are or have the potential to be a contributor of pollution, as defined in the Pennsylvania Clean Streams Law, which are more appropriately controlled under an individual permit. (25 Pa. Code § 92a.54(e)(1))
2. The discharger is not, or will not be, in compliance with any one or more of the conditions of the General Permit. (25 Pa. Code § 92a.54(e)(2))
3. Stormwater discharges proposed by a person responsible for other activities regulated by DEP who has failed and continues to fail to comply or has shown a lack of ability or intention to comply with a regulation, permit, schedule of compliance or order issued by DEP. (25 Pa. Code § 92a.54(e)(3))
4. Stormwater discharges that contain pollutants for which a change has occurred in the availability of demonstrated technology or practices for the control or abatement of the pollutants. (25 Pa. Code § 92a.54(e)(4))
5. Stormwater discharges for which categorical point source effluent limitations are promulgated by the U.S. Environmental Protection Agency (EPA) and other sector-specific prohibited discharges identified in the appendices to this General Permit. (25 Pa. Code § 92a.54(e)(5))
6. Stormwater discharges that are not in compliance or will not result in compliance with an applicable effluent limitation or water quality standard. (25 Pa. Code § 92a.54(e)(6))
7. Stormwater discharges from a facility for which an individual permit is required for other point source discharges, and issuance of both an individual permit and authorization for coverage under a General Permit for the facility would constitute an undue administrative burden on DEP. (25 Pa. Code § 92a.54(e)(7))

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8. Stormwater discharges that DEP determines require an individual NPDES permit to ensure compliance with the Federal Clean Water Act, the Pennsylvania Clean Streams Law or DEP regulations. (25 Pa. Code § 92a.54(e)(8))
9. Stormwater discharges to surface waters classified as High Quality (HQ) or Exceptional Value (EV) waters under 25 Pa. Code Chapter 93 (relating to Water Quality Standards), unless such discharges are “grandfathered.” (25 Pa. Code § 92a.54(e)(9))
10. Stormwater discharges containing toxic or hazardous pollutants as defined in sections 307 and 311 of the Clean Water Act (33 U.S.C. §§ 1317 and 1321), or any other substance which, because of its quantity, concentration or physical, chemical or infectious characteristics, may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into surface waters. (25 Pa. Code § 92a.54(a)(5))
11. Stormwater discharges that individually or cumulatively have the potential to cause or contribute to a violation of an applicable water quality standard established under 25 Pa. Code Chapter 93 (relating to water quality standards) or cause significant adverse environmental impact. (25 Pa. Code § 92a.54(a)(7))
12. Stormwater discharges to impaired waters (with or without an approved Total Maximum Daily Load (TMDL)) where the discharges contain or are expected to contain parameters at concentrations that have the potential to cause or contribute to the impairment, and stormwater discharges that are subject to a wasteload allocation (WLA) in a TMDL.
13. Stormwater discharges that would adversely affect a listed endangered or threatened species or its critical habitat. (25 Pa. Code § 92a.12(c))
14. Stormwater discharges from a facility covered by an individual permit when coverage under the General Permit would result in less stringent effluent limitations or terms and conditions.
15. Non-stormwater discharges and stormwater discharges containing pollutants that are intentionally introduced by the permittee, unless specifically authorized by DEP.
16. Stormwater discharges associated with construction activity as defined in 40 CFR § 122.26(b)(14)(x) or 40 CFR § 122.26(b)(15); stormwater discharges associated with mineral extraction activity as defined in 40 CFR § 122.26(b)(14)(iii); and stormwater discharges associated with treatment works treating domestic sewage as defined in 40 CFR § 122.26(b)(14)(ix).
17. Stormwater discharges that occur at new or existing facilities with cooling water intake structures as defined in 40 CFR §§125.81 and 125.91, respectively.
18. Stormwater discharges where one or more of the sector-specific discharge prohibitions apply, as identified in the appendices to the General Permit.

NOTE – If NPDES permit coverage is required for stormwater associated with mining activities, the operator should submit an NOI for GP-104 NPDES permit coverage to the appropriate DEP district mining office. Non-mining industrial activities that are located at mining sites may be covered by the PAG-03 General Permit except as follows, which should apply for GP-104 permit coverage:

- Asphalt plants located within a permitted mine site and all drainage is to the permitted mine site. (If the mine closes and the asphalt plant wishes to continue to operate, the operator would need to apply for PAG-03 General Permit coverage or an individual NPDES permit).
- Asphalt plants located outside but contiguous to a permitted mine site and all drainage is to the permitted mine site.

PART A – EFFLUENT LIMITATIONS

The PAG-03 General Permit establishes effluent limitations through the implementation of best management practices (BMPs), as specified in Part C II (general BMPs applicable to all facilities) and the sector-specific appendices of the General Permit, to reduce the discharge of pollutants in stormwater discharges associated with industrial activity.

All stormwater discharges must comply with all applicable requirements established in accordance with 25 Pa. Code Chapters 91-96, 102, and 105 of DEP's rules and regulations. For all permittees covered under this General Permit, DEP may, upon written notice, require additional BMPs or other control measures to ensure that the water quality standards of the receiving waters are attained.

In addition, the permittee may not discharge the following, which are narrative effluent limitations used to implement specific provisions of DEP's regulations:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa. Code § 92a.41(c))
2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline. (25 Pa. Code §§ 92a.47(a)(7), 95.2(2))
3. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa. Code § 93.6(a))
4. Foam or substances that produce an observable change in the color, taste, odor or turbidity of the receiving water. (25 Pa. Code § 92a.41(c))

The general BMPs contained in Part A of the previous PAG-03 General Permit have been reorganized and moved to Part C of the reissued PAG-03 General Permit.

PART A – SELF-MONITORING, REPORTING AND RECORDKEEPING

In general, these requirements are used in DEP's individual NPDES permits, and identify the following key elements of monitoring, reporting and recordkeeping under the General Permit that are generally required by state and federal regulations:

- Representative sampling requirements, records retention requirements, recording of results, analytical test procedures, and quality assurance and control.
- Reporting of monitoring results, including the requirement to submit Discharge Monitoring Reports (DMRs), the method that DMRs must be submitted and signatory requirements. The U.S. Environmental Protection Agency (EPA) published a final rulemaking in 2015 that requires (with certain exceptions) that NPDES-permitted facilities submit DMR data electronically. As a result, DEP has required the use of its electronic DMR (eDMR) system in the PAG-03 General Permit for submission of semiannual DMR by permittees.
- Other reporting requirements, including planned changes to physical facilities, unanticipated non-compliance or potential pollution reporting and other non-compliance.

In addition, the General Permit requires the submission of an annual report by May 1, with an installment of the NOI fee of \$500 (unless the permittee indicates that the discharge(s) have been or will be terminated by the annual report due date). The use of an annual report template (3850-PM-BCW0083h) is required. DEP may in the future require submission of the annual report electronically.

Part A of the General Permit was updated to conform to DEP's latest regulatory language in 25 Pa. Code Chapter 92a.

PART B – STANDARD CONDITIONS

In general, these requirements are used in DEP's individual NPDES permits, and identify other responsibilities of permittees that are covered under the General Permit, including:

- Achieving compliance with compliance schedules of the General Permit.
- Procedures for permit modification, termination or revocation and reissuance.
- Duties to provide information to DEP.
- Proper operation and maintenance.

- Duties to mitigate to prevent discharges, sludge use or disposal.
- Procedures relating to bypassing treatment facilities.
- Penalties and liabilities for violating permit conditions or limitations, or falsifying information.
- Provisions to provide entry to DEP and EPA to the facility, have access to records, and inspect and monitor facility operations at reasonable times.
- Procedures for transferring coverage under the General Permit.
- Clarification that property rights are not conveyed by coverage under the General Permit.
- Duty to reapply when notified by DEP in writing.

Part B of the General Permit was updated to conform to DEP's latest regulatory language in 25 Pa. Code Chapter 92a.

PART C – SPECIAL CONDITIONS

The Part C of the reissued PAG-03 General Permit has been reorganized and amended in comparison to the previous General Permit, as follows:

- **Section I** – Clarification has been added that the outfalls identified in the NOI are authorized under the approval of coverage. The NOI has been amended to require reporting of all stormwater outfalls (the previous NOI did not request this information). The list of authorized non-stormwater discharges is consistent with EPA's MSGP and has not significantly changed from the previous PAG-03 General Permit.
- **Section II** – General BMPs that apply to all industrial sectors were relocated from Part A of the previous PAG-03 General Permit to Part C II. The BMPs were updated to conform to the general BMPs contained in EPA's MSGP. DEP is providing a one year "transition period" for any applicable BMPs that existing permittees must implement that were not part of the previous General Permit. This section also directs permittees to implement the applicable sector-specific BMPs contained in the appendices. Since DEP cannot consider every possible scenario where BMPs may be applicable, DEP has included a provision that alternatives to the sector-specific BMPs may be implemented if authorized by DEP.
- **Section III** – EPA's MSGP calls for quarterly inspections of areas where industrial materials or activities are exposed to stormwater, areas identified in the stormwater pollution prevent plan as potential pollutant sources, areas where spills or leaks have occurred in the past three years, stormwater outfalls and locations where authorized non-stormwater discharges may commingle, and physical BMPs. Although the previous PAG-03 General Permit calls for annual inspections only, DEP has determined that semiannual visual inspections of these areas, activities and practices are more effective at controlling pollutants in stormwater discharges, and is specifying semiannual visual inspections for all PAG-03 permittees. These inspections would need to be reported to DEP as part of the annual report due May 1 of each year. DEP believes that semiannual inspections are adequate for industrial stormwater facilities and this inspection frequency aligns with the semiannual monitoring requirements for most sectors.
- **Section IV** – DEP has updated the Preparedness, Prevention and Contingency (PPC) Plan conditions of the PAG-03 General Permit to be consistent with the latest language used for individual NPDES permits for industrial stormwater discharges. In comparison to the previous PAG-03 General Permit, significant changes include: 1) removal of the requirement for engineering certification of PPC Plans every year for facilities subject to SARA Title III, Section 313, and 2) required annual review and update as necessary of the PPC Plan, to be documented in the annual report. In addition, a PPC Plan will be required as part of each complete NOI submission, including No Exposure Certification submissions.
- **Section V** – Several provisions of the monitoring requirements of the PAG-03 General Permit have been modified in comparison to the previous General Permit:
 - The General Permit now clarifies that if the applicant or permittee reports that specific outfalls discharge stormwater commensurate with "no exposure conditions" (see 40 CFR § 122.26(g)), monitoring of pollutants

per the sector-specific PAG-03 appendices is not required at those outfalls. The permittee will need to document ongoing conditions of such outfalls in the annual report.

- Monitoring will need to be performed at the outfalls designated by the permittee as “representative outfalls” in the NOI or in annual reports.
- A condition has been introduced that would require, upon written notice from DEP, permittees to provide for an accessible location to collect stormwater samples if none currently exists; for example, an inlet box or equivalent must be installed to collect sheet flow for sampling purposes, if required by DEP.
- Clarification has been added that the permittee must collect stormwater samples at times where there is no commingling of non-stormwater discharges or at locations prior to the commingling of non-stormwater discharges.
- Benchmark values for specific pollutants have been added to the PAG-03 General Permit appendices. These values are not effluent limitations and exceedances of benchmark values are not violations; however, failure to develop and submit a corrective action plan (CAP) to remediate the exceedances and/or failure to implement corrective measures called for by the plan would generally be considered violations. A CAP must be submitted within 90 days following the end of a monitoring period when exceedances have occurred in two or more consecutive monitoring periods for the same pollutant at the same outfall. If there are two consecutive benchmark exceedances, a CAP must be submitted within 90 days; if the subsequent monitoring period also demonstrates benchmark exceedances, another CAP must be submitted. The CAP must be implemented immediately upon submission unless DEP authorizes a longer period of time for implementation in writing. A CAP can be as simple as a letter from the permittee explaining what BMPs or other measures will be taken to reduce stormwater pollutant concentrations. The concept of benchmark values for industrial stormwater is consistent with EPA’s MSGP and is considered important by DEP to evaluate the ongoing effectiveness of BMP implementation.

SECTOR-SPECIFIC APPENDICES

DEP’s previous PAG-03 General Permit contained 12 appendices for specific industrial sectors (not including Appendix M, which was not used). EPA’s MSGP contains specific requirements for 30 industrial sectors. DEP evaluated the MSGP and decided to add multiple appendices and in some cases reorganize existing appendices to improve consistency with the MSGP. As a result, many facilities that were subject to a particular appendix in the previous PAG-03 General Permit will be subject to a new appendix. Table 2 has been developed as a cross-walk between the appendices contained in the previous and reissued PAG-03 General Permits. The table is organized by the appendices identified in the previous PAG-03 General Permit, and shows the corresponding appendices in the reissued General Permit based on SIC code. Existing PAG-03 permittees may use this table to determine which appendix now applies to their General Permit coverage.

Table 2 – Cross-Walk Between Previous and Reissued PAG-03 Appendices

Previous PAG-03 Appendix	SIC Codes Associated with Previous Appendix	Reissued (New) PAG-03 Appendix
A – SARA Title III, Section 313 Facilities	226	Q – Textile Mills, Apparel and Other Fabric Products
	26	E – Paper and Allied Products
	27	R – Printing and Publishing
	28	F – Chemicals and Allied Products
	29	M – Asphalt Paving, Roofing Materials and Lubricants
	30	S – Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries
	311	T – Leather Tanning and Finishing
	32	N – Glass, Clay, Cement, Concrete and Gypsum Products
	34	U – Fabricated Metal Products
	35, 36, 37 and 38	J – Additional Facilities
39	S – Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries, except SIC Codes 3911 – 3915; U – Fabricated Metal Products	

Previous PAG-03 Appendix	SIC Codes Associated with Previous Appendix	Reissued (New) PAG-03 Appendix
B – Primary Metal Industry Facilities	33	B – Primary Metals
C – Land Disposal Units, Incinerators and BIFs	4953	C – Landfills and Land Application Sites
D – Wood Treatment Facilities	2491	D – Timber Products
E – Coal Storage Pile Runoff	None listed	Removed from PAG-03. Coal storage pile runoff is subject to federal ELGs at 40 CFR Part 423 and DEP is not authorized to issue General Permit coverage for discharges where categorical point source effluent limitations are promulgated by EPA (see 25 Pa. Code § 92a.54(e)(5)).
F – Battery Reclaimers	4953	A – Hazardous Waste Treatment, Storage or Disposal Facilities
G – Airports	4581	G – Air Transportation Facilities
H – Steam Electric Power Generating Facilities	4911	H – Steam Electric Generating Facilities
I – Animal Handling and Meat Packing Facilities	2011, 2013 and 2015	I – Food and Kindred Products
J – Additional Facilities	10*, 12*, 13, 14*, 25, 35, 36, 37, 38 and 44	J – Additional Facilities
	20, 21	I – Food and Kindred Products
	22, 23, 31 (except 311)	Q – Textile Mills, Apparel and Other Fabric Products
	24	D – Timber Products
	26 (including 265 and 267)	E – Paper and Allied Products
	27	R – Printing and Publishing
	28 (including 283)	F – Chemicals and Allied Products
	29	M – Asphalt Paving, Roofing Materials and Lubricants
	30	S – Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries
	32 (including 323)	N – Glass, Clay, Cement, Concrete and Gypsum Products
	34	U – Fabricated Metal Products
	39	S – Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries, except SIC Codes 3911 – 3915: U – Fabricated Metal Products
	40, 41, 42 and 43	L – Land Transportation and Petroleum Stations and Terminals
	45	G – Air Transportation Facilities
	4952	Removed from PAG-03. Sewerage systems required to obtain permit coverage for stormwater discharges associated with industrial activity have such discharges covered by an individual NPDES permit.
4953	A – Hazardous Waste Treatment, Storage or Disposal Facilities or C – Landfills and Land Application Sites	
5015	O – Automobile Salvage Yards	
5093	P – Scrap and Waste Recycling Facilities	
K – Salt Storage Piles and Salt Distribution Stockpiles	None listed	K – Existing Salt Storage and Distribution Sites
L – Petroleum Marketing Terminals	5171	L – Land Transportation and Petroleum Stations and Terminals

* Stormwater discharges associated with mining activity (i.e., ore mining and dressing (SIC Code 10), coal mining and related activities (SIC Code 12) and mineral mining and dressing (SIC Code 14)) should apply for NPDES permit coverage through DEP's Bureau of Mining Programs.

DEP has added new appendices for the following sectors:

- Hazardous Waste Treatment, Storage or Disposal Facilities (Appendix A);
- Paper and Allied Products (Appendix E);
- Chemicals and Allied Products (Appendix F);
- Land Transportation and Petroleum Stations and Terminals (Appendix L) (note that previously this appendix covered only petroleum marketing stations);
- Asphalt Paving, Roofing Materials and Lubricants (Appendix M);
- Glass, Clay, Cement, Concrete and Gypsum Products (Appendix N);
- Automobile Salvage Yard (Appendix O);
- Scrap and Waste Recycling Facilities (Appendix P);
- Textile Mills, Apparel and Other Fabric Products (Appendix Q);
- Printing and Publishing (Appendix R);
- Rubber, Miscellaneous Plastic Products and Miscellaneous Manufacturing Industries (Appendix S);
- Leather Tanning and Finishing (Appendix T); and
- Fabricated Metal Products (Appendix U).

For new appendices, DEP generally relied on EPA's MSGP to establish sector-specific BMPs. Required pollutants for monitoring were based on the MSGP and professional judgment.

In general, DEP decided that semiannual monitoring for key pollutants for all sectors was appropriate. The previous PAG-03 General Permit required semiannual monitoring for most sectors and in DEP's experience this is sufficient to characterize stormwater associated with industrial activity (the MSGP requires quarterly monitoring of pollutants).

While DEP decided to implement the concept of benchmark values, it did not use all of the values specified in the MSGP. The following benchmark values were established by DEP, under the rationale that these benchmarks are adequate indicators of non-polluting stormwater discharges.

- Total Suspended Solids (TSS) (all appendices) – 100 mg/L, which is based on the MSGP.
- Chemical Oxygen Demand (COD) (Appendices A, C, D, E, F, G, I and P) – 120 mg/L, which is based on the MSGP.
- Chloride (Appendix K) – 2,000 mg/L, which is a value derived from best professional judgment of the maximum stormwater Chloride concentration that should be expected at a site that has fully implemented the BMPs in PAG-03. Stormwater sampling data collected by DEP at salt storage and distribution sites that are implementing the BMPs of the PAG-03 General Permit have typically demonstrated concentrations of Chloride below this value. In addition, a 2004 study by the Virginia Transportation Research Council found that the majority of samples collected from stormwater collection ponds at salt storage sites contained less than 2,000 mg/L of Chloride.
- BOD5 (Appendix G) – 30 mg/L, which is based on the MSGP.
- Oil and Grease (Appendices H, I, J, L, M, O and P) – 30 mg/L, which is based on professional judgment and 25 Pa. Code § 95.2(2)(ii).

- pH (Appendix N) – 9.0 S.U., which is a value derived from best professional judgment of the maximum stormwater pH that should be expected at a site that has fully implemented the BMPs in PAG-03. In addition, this pH value is an industrial wastewater treatment standard in 25 Pa. Code § 95.2(1).

DEP determined that it is not necessary to categorize facilities by whether or not they are regulated by SARA Title III, Section 313. DEP determined that the likelihood of stormwater pollution at such facilities is no greater than those not regulated by SARA Title III, Section 313. As a result, facilities that were subject to either Appendix A or Appendix J, depending on whether or not SARA Title III was applicable, will now be covered by a new sector-specific appendix or, if a facility's SIC code is not identified in such new appendices, Appendix J. Appendix A has been repurposed for hazardous waste treatment, storage or disposal facilities.

The following significant modifications were made to existing PAG-03 appendices (i.e., appendices in the previous General Permit that were retained for the reissued General Permit):

- Pollutants to be monitored were reevaluated and in most cases the number of pollutants was reduced.
- Monitoring frequency was standardized to once every six months across all appendices, which resulted in increased monitoring from 1/year to 1/6 months for certain appendices (e.g., Appendices H, I and J).
- Sector-specific discharge prohibitions were added to particular appendices to clarify that certain stormwaters or wastewaters were not authorized under the General Permit, based on the MSGP or 25 Pa. Code § 92a.54(e)(5).
- Sector-specific authorized non-stormwater discharges were added to particular appendices to clarify other non-stormwater discharges authorized by the General Permit beyond those identified in Part C I.
- Appendices G.1 and G.2 in the previous PAG-03 General Permit were consolidated into Appendix G in the reissued General Permit; the distinction between large and small airports is recognized by allowing small airports to reduce monitoring for the remainder of the General Permit term if two consecutive monitoring periods demonstrate stormwater concentrations below benchmark values.
- Appendices K.1 and K.2 in the previous PAG-03 General Permit were consolidated into Appendix K in the reissued General Permit. The distinction between large ($\geq 3,000$ tons) and small ($< 3,000$ tons) salt stockpiles is recognized by allowing permittees with small stockpiles to reduce monitoring for the remainder of the General Permit term if two consecutive monitoring periods demonstrate stormwater concentrations below benchmark values. The term "salt" was clarified to mean all solid chemical products stored and utilized for the principal purpose of deicing roadways for public safety. In addition, the appendix was clarified that it may be used to provide permit coverage for only existing stockpiles (those with current coverage under PAG-03).

DEP has made a finding under the Pennsylvania Clean Streams Law that salt storage and loading/unloading activities often result in pollution to waters of the Commonwealth, particularly at sites with large stockpiles. As a result, DEP has decided to require permit coverage or other DEP approval for new large stockpiles (that do not discharge to MS4s). New salt storage and distribution sites with large stockpiles must apply for and obtain an individual NPDES permit (or other DEP approval), whether or not such sites are co-located with other industrial activities requiring permit coverage. New salt storage and distribution sites with small stockpiles are not required to seek permit coverage under an individual NPDES permit if the BMPs selected in Appendix K are implemented and maintained, unless otherwise notified by DEP in writing that permit coverage or other DEP approval is required. DEP has also taken this position for existing salt storage and distribution sites – permittees with large stockpiles that are not currently covered by PAG-03 (or an MS4 NPDES permit) must apply for an individual permit or receive other DEP approval, and permittees with small stockpiles do not need permit coverage (unless otherwise notified by DEP) if the BMPs in Appendix K of the PAG-03 General Permit are implemented. No Exposure Certification for salt storage and distribution sites is generally available only for facilities whose material storage and handling activities are not exposed to precipitation (i.e., under roof).

- Appendix L was amended to incorporate land transportation industrial sectors, whereas previously it was solely used for petroleum marketing terminals (PMTs). The BMPs for PMTs were updated based on the latest conditions used for PMTs under individual NPDES permits. Hydrostatic test water discharges was added as an authorized non-stormwater discharge for this sector.

In addition to the modifications made to the PAG-03 General Permit, changes were also made to the No Exposure Certification process. These changes include a requirement to complete the PAG-03 NOI for new and reissued No Exposure Certification applications; a requirement to submit the facility's PPC Plan; a filing fee of \$500; and a requirement to collect at least one grab sample from a representative stormwater outfall for pollutant analysis to confirm that the discharge is "non-polluting."