



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

**BUREAU OF WASTE MANAGEMENT**  
**DIVISION OF MUNICIPAL and RESIDUAL WASTE**

**DRAFT GENERAL PERMIT WMGR114**

**PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY  
CONTAINING SILICON AND SILICON CARBIDE OR DIAMOND, SPENT  
ALUMINUM COLD ROLLING FLUIDS, AND LAPPING COMPOUND**

**Issued: September 1, 2017**

**Expires: September 1, 2027**

GENERAL PERMIT NO. WMGR114  
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**A. Description:**

The approval herein granted is limited to the processing by mechanical separation, including filtration, vacuum evaporation, drying, classification or grinding, of the following:

1. spent polyethylene glycol slurry containing silicon and silicon carbide or diamond (“spent PEG slurry”) to produce the following:
  - a. polyethylene glycol, silicon carbide, and diamond for use in the making of fresh slurry, or
  - b. silicon and silicon carbide used in the manufacture of silicon ingots.
2. spent aluminum cold rolling fluids for reuse as aluminum cold rolling fluid.
3. Petroleum oil based silicon carbide slurry (lapping compound) for reuse at the point of generation.

**B. Registration Requirements:**

A person or municipality that proposes to operate under the terms and conditions of this general permit after the date of permit issuance must obtain a registration from the appropriate Department Regional Office (see attached list) prior to commencing authorized activities under this general permit. A completed application on forms provided by the Department along with the application fee for a registration must be submitted to the appropriate Department Regional Office. Checks shall be made payable to the “Commonwealth of Pennsylvania.” No activities shall commence unless approved, in writing, by the Department.

**C. Operating Conditions:**

1. Spent PEG slurry, spent aluminum cold rolling fluids, spent lapping compound, and residues from processing shall not be accumulated speculatively as defined in 25 Pa. Code § 287.1, before or after processing occurs in accordance with this general permit.

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

2. Polyethylene glycol, silicon, silicon carbide, diamond, regenerated aluminum cold rolling fluids and petroleum based silicon carbide slurry produced by the processing of spent PEG slurry, spent aluminum cold rolling fluids and spent lapping compound shall conform with applicable standards and specifications necessary for the intended beneficial use and for which the materials is being substituted.
3. Provided that Conditions C.1 and C.2 of this general permit are satisfied, the following are no longer wastes:
  - a. polyethylene glycol, silicon carbide, and diamond used to prepare fresh slurry,
  - b. silicon and silicon carbide used in the manufacturing of silicon ingots,
  - c. regenerated aluminum cold rolling fluids, and
  - d. lapping compound.
4. Polyethylene glycol, silicon, silicon carbide, diamond, aluminum cold rolling fluids, or lapping compound that do not meet the specifications necessary for their intended use must either be reprocessed to meet the specifications or be managed as residual waste in accordance with the requirements in 25 Pa. Code Chapters 287 through 299.
5. A facility operating under this general permit shall not be located:
  - a. In the 100-year floodplain of waters of this Commonwealth, unless the Department approves in the permit a method of protecting the facility from a 100-year flood consistent with the Flood Plain Management Act (32 P. S. §§ 679.101 - 679.601) and the Dam Safety and Encroachments Act (32 P. S. §§ 693.1 - 693.27).
  - b. In or within:
    - i 300 feet of an exceptional value wetland as defined in 25 Pa. Code §105.17 (relating to wetland), and

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

- ii 100 feet of a wetland other than an exceptional value wetland, unless storage and processing will not occur within that distance or storage and processing take place in an enclosed facility and one of the following applies:
    - (A) If the operation is in or along the wetland, the operator has received a permit from the Department under Chapter 105 (relating to dam safety and waterway management).
    - (B) If the operation is not in or along the wetland, no adverse hydrologic or water quality impacts will result.
  - c. Within 300 feet measured horizontally from an occupied dwelling, unless the current owner has provided a written waiver consenting to the activities being closer than 300 feet.
  - d. Within 100 feet of an intermittent or perennial stream, unless storage and processing will not occur within that distance and no adverse hydrologic or water quality impacts will result.
  - e. Within 50 feet of a property line, unless the operator demonstrates that actual processing of waste is not occurring within that distance, or that the current owners of occupied dwellings within that distance have provided written waivers consenting to the facility being closer than 50 feet. The waiver shall be knowingly made and separate from a lease or deed unless the lease or deed contains an explicit waiver from the owner.
  - f. Within 300 yards of a building owned by a school district or parochial school used for instructional purposes, unless the current property owner of the school provides a written waiver of this requirement.
  - g. Within 300 yards of a park or playground, unless the current property owner of the park or playground provides a written waiver of this requirement.
6. Upon cessation of permitted operations at the facility, the permittee shall ensure removal of all wastes and provide for the processing, recycling, beneficial use, or disposal of wastes in accordance with the Solid Waste Management Act (SWMA), 35 P.S. §§ 6018.101—6018.1001, the

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

environmental protection acts and the regulations promulgated thereunder.

7. The activities authorized by this permit shall not cause or allow conditions that are harmful to the environment, public health or safety, including but not limited to, odors, noise, or other public nuisances.
8. The permittee shall develop and implement a Preparedness, Prevention and Contingency Plan (PPC) that is consistent with the Department's most recent guidelines.
9. All activities conducted under the authorization granted in this permit shall be conducted in accordance with the permittee's application. Except to the extent that the permit states otherwise, the permittee shall operate the facility as described in the approved permit application.
10. The permittee shall comply with the fugitive emissions regulations under 25 Pa. Code, Chapter 123 (relating to standards for contaminants) issued under the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, 35 P.S. §4005, and shall comply with all the applicable provisions of 25 Pa. Code §§123.1 and 123.2 (relating to prohibition of certain fugitive emissions and fugitive particulate matter).
11. Nothing in this permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulation, provided that said local law, ordinance, or regulation is not preempted by the Pennsylvania Solid Waste Management Act (SWMA), 35 P.S. §§ 6018.101 – 6018.1003; Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. §§ 4000.101 – 4000.1904; Air Pollution Control Act, 35 P.S. §§ 4001 – 4015, and The Clean Streams Law, 35 P.S. §§ 691.1 – 691.1001.
12. As a condition of this general permit and of the permittee's authority to conduct the activities authorized by this general permit, the permittee hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access to and inspect all areas on which solid waste management activities are being, will be, or have been conducted. This authorization and consent shall include consent to collect samples of waste, soils, water, or gases; take photographs; perform measurements, surveys, and

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

other tests; inspect any monitoring equipment; inspect the methods of operation and inspect and/or copy documents, books, and papers required by the Department to be maintained. This permit condition is referenced in accordance with Sections 6018.608 and 6018.610(7) of the SWMA, 35 P.S. §§ 6018.608 and 6018.610(7). This condition in no way limits any other powers granted under the SWMA.

13. Any independent contractors or agents retained by the permittee in the completion of activities authorized under this general permit shall be subject to compliance history review by the Department prior to performance of any activities, as specified by the SWMA.
14. Failure of measures herein approved to perform as intended, or as designed, or in compliance with the applicable laws, rules, and regulations and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this permit.
15. The activities authorized by this general permit shall not harm or present a threat of harm to the health, safety, or welfare of the people or environment of this Commonwealth. The Department may modify, suspend, revoke, and reissue the authorization granted in this general permit if it deems necessary to prevent harm or the threat of harm to the public health, and the environment or if they cannot be adequately regulated under the conditions of this general permit.
16. The permittee shall comply with the terms and conditions of this general permit and with the environmental protection acts to the same extent as if the activities were covered by an individual permit. The Department may require an individual permit be obtained if the permittee cannot comply with the conditions of this general permit or is conducting an activity that harms or presents a threat of harm to the health, safety, or welfare of the public or the environment of this Commonwealth.
17. This permit does not authorize and shall not be construed as an approval to discharge any waste, wastewater, or runoff from the site of processing to the land or waters of the Commonwealth.
18. Best Management Practices shall be implemented to divert storm water run-on from the storage area(s). Storm water runoff shall be managed in accordance with The Clean Streams Law and regulations promulgated thereunder. Prior to

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

beginning operations at the facility, the operator must obtain all necessary storm water management permits.

19. The permittee shall maintain in force and affect a general liability insurance policy in accordance with 25 Pa. Code, Chapter 287, Subchapter E (relating to bonding and insurance requirements) to provide continuous coverage during operation of the facility and until the Department issues a final closure certification.
20. Equipment used for the storage of spent PEG slurry, spent aluminum cold rolling fluids, or spent lapping compound shall be maintained in good operating condition. Daily inspections of each storage area and surrounding environs shall be conducted to determine compliance of the terms and conditions of this general permit and for evidence of failure.
21. Storage of spent PEG slurry, spent aluminum cold rolling fluids, or spent lapping compound by the permittee shall be in a manner that complies with the requirements set forth in 25 Pa. Code, Chapter 299 (relating to storage and transportation of residual waste).
22. The spent PEG slurry, spent aluminum cold rolling fluids, or spent lapping compound shall not be mixed with each other or other types of solid wastes, including hazardous waste, municipal waste, special handling waste, or other residual waste, as the terms are defined in 25 Pa. Code § 287.1.
23. The permittee shall inspect the incoming waste to ensure that it is free of hazardous waste or other materials.

**D. Recordkeeping**

1. The permittee shall maintain records of all waste accepted by the facility, and records shall be made available to the Department upon request. Required records shall be retained for a minimum of 5 years. Records of each source of incoming waste must include, at a minimum, the following: the name, address, and phone number of each source of incoming waste; the date of receipt; the quantity of waste received; the identity, quantity, and date materials were reused to prepare fresh slurry and aluminum cold rolling fluids; and the identity, quantity, and date materials were shipped off-site for use in a manufacturing process or for disposal.

GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

2. The permittee shall also maintain records of the inspections performed in accordance with Condition C(20) and spills or releases that include, at a minimum, the following: the location, date, time, identification, and quantity of spilled or released material, and a description of how the material was cleaned up. The permittee shall also maintain records of all reports submitted to the Department or to the U.S. Environmental Protection Agency.

**E. Reporting Requirements**

1. Any person that operates under the provisions of this general permit shall immediately notify the Department via certified mail of any changes in: the company name, address, owners, operators and/or responsible officials of the company, compliance status, land ownership and the right to enter and operate on any land occupied by a facility, the system used to process waste, and the status of any permit issued by the Department or federal government under the environmental protection acts.
2. Persons operating under the provision of this general permit shall submit to the appropriate Department Regional Office (see attached list), an annual report on the beneficial use activities conducted under this permit by March 1 for the preceding calendar year. This report shall include the information required in Section D of this general permit.
3. The permittee shall immediately notify the Department's Emergency Hotline by telephone at 800-541-2050 and the waste management program in the appropriate DEP regional office (see attached list) of any accidental spills and shall take appropriate immediate action to protect the health and safety of the public and the environment. Spills of less 100 gallons of waste or any other materials resulting from processing need not be immediately reported, but should be recorded as specified in Condition D(2).

**F. Renewal**

A person that plans to continue the operations authorized under this general permit, after the expiration date indicated on the approval for coverage page, shall file a complete application for permit renewal at least 180 days before the expiration date of this general permit unless permission has been granted by the Department for submission at a later date. The renewal applications



GENERAL PERMIT NO. WMGR114  
PROCESSING SPENT POLYETHYLENE GLYCOL SLURRY CONTAINING SILICON  
AND SILICON CARBIDE OR DIAMOND, SPENT ALUMINUM COLD ROLLING  
FLUIDS, AND LAPPING COMPOUND

shall be submitted to the appropriate Department Regional Office (see attached list) and include, at a minimum, the following:

- i General Information Form (Authorization Application for a Residual or Municipal Waste General Permit Application),
- ii Form B (Professional Certification),
- iii Form 20 (Application for a Municipal or Residual Waste General Permit),
- iv Form 27R (Acceptance of General Permit Conditions), and
- v DOA application fee in the amount identified in Section A (General Information) of the Form 20. A check shall be made payable to the "Commonwealth of Pennsylvania."

A copy of the renewal application shall also be sent to the Department's Bureau of Waste Management, Division of Municipal and Residual Waste, Rachel Carson State Office Building, 400 Market Street, P.O. Box 69170, Harrisburg, PA 17106-9170.

In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the general permit or approval for coverage before its current coverage expiration date, the terms and conditions of the approved coverage will automatically continue and will remain fully effective and enforceable pending the issuance or denial of the renewal for permit coverage, provided the permittee is, and has been, operating in compliance with the terms and conditions of the general permit.

**Department of Environmental Protection  
Regional Offices  
(and Counties Served)**

- I. Bucks, Chester, Delaware, Montgomery, Philadelphia.

**Southeast Regional Office**

2 East Main Street  
Norristown, PA 19401  
Phone: (484) 250 - 5960

- II. Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, Wyoming.

**Northeast Regional Office**

2 Public Square  
Wilkes-Barre, PA 18701-1915  
Phone: (570) 826 – 2516

- III. Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, York.

**Southcentral Regional Office**

909 Elmerton Avenue  
Harrisburg, PA 17110-8200  
Phone: (717) 705 – 4706

- IV. Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union.

**Northcentral Regional Office**

208 West 3<sup>rd</sup> Street - Suite 101  
Williamsport, PA 17701  
Phone: (570) 327 – 3653

- V. Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington, Westmoreland.

**Southwest Regional Office**

400 Waterfront Drive  
Pittsburgh, PA 15222-4745  
Phone: (412) 442 – 4000

- VI. Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango, Warren.

**Northwest Regional Office**

230 Chestnut Street  
Meadville, PA 16335-3481  
Phone: 814-332-6848