Stormwater Pollution Prevention Plan
for
BRUNSWICK EXECUTIVE AIRPORT
BRUNSWICK, MAINE

Prepared for:

MRRA
Midcoast Regional
Redevelopment Authority

in accordance with the regulations of the
State of Maine Department of Environmental Protection
Maine Pollutant Discharge Elimination System
Multi-Sector General Permit
Facility Permit # MER05CO27

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TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1
1.1 Plan Location
1.2 Plan Implementation
2.0 STORMWATER POLLUTION PREVENTION PERSONNEL 2
3.0 RELATED PLANS FOR BRUNSWICK EXECUTIVE AIRPORT. 3
4.0 SITE ASSESSMENT 3
4.1 Description
4.2 Stormwater Drainage Patterns
4.3 Potential Pollutant Sources
5.0 STORMWATER MANAGEMENT 7
5.1 Non-Structural Best Management Practices
5.2 Structural Best Management Practices
5.3 PFAS Management
5.4 Summary of Sampling Data
5.5 Non-stormwater Discharge Evaluation
6.0 INSPECTION, MONITORING AND TRAINING ACTIVITIES 16
6.1 Personnel Training
6.2 Monitoring
6.3 Quarterly Site Compliance Inspections
6.4 Recordkeeping and Reporting
7.0 CERTIFICATION 21

TABLES

2.1 MRRA Stormwater Pollution Prevention Personnel 2
2.2 Site Specific Stormwater Plans at Brunswick Executive Airport 2
4.1 Common Activities and Pollutant Sources – Air Sector 4
4.2 Facilities with Relevant Air Sector Activities 5
4.3 Brunswick Executive Airport Fuel Throughput 6
4.4 Aircraft Deicing/Anti-Icing at Brunswick Executive Airport 6
4.5 Site Evaluation of Vehicle and Equipment Maintenance Facilities 7
6.1 Visual Monitoring Schedule for Brunswick Executive Airport 19
6.2 Quarterly Site Compliance Inspection Schedule for Brunswick Executive Airport 19

APPENDICES

A Stormwater Pollution Prevention Plan Drainage Map
B Notice of Intent, MRRA
C DEP Multisector General Permit
D SWPPP Corrective Action Log
E SWPPP Amendment Log
F TMDL Summary: Mere Brook

1.0 EXECUTIVE SUMMARY

On January 12, 2011, the Maine Department of Environmental Protection (MEDEP) processed a Notice of Intent (NOI) for the Midcoast Regional Redevelopment Authority (MRRA) to comply with the *Maine Multisector General Permit for Stormwater Discharges Associated with Industrial Activity*, under the Maine Pollutant Discharge Elimination System (MPDES). MRRA filed under the category of "Air Transportation Facility" (Processing # MER05CO27). This permit was subsequently re-filed under the April 26, 2011 permit. The Department re-issued the MSGP on December 7, 2016. The facility's permit coverage was renewed by the receipt of an NOI on April 4, 2017.

As the former Naval Air Station Brunswick, this facility was previously assigned under the EPA Multi-Sector General Permit SIC #4512.

As part of the conditions of the initial permit, each activity is required to prepare a facility-specific Stormwater Pollution Prevention Plan ("SWPPP"). The purpose of the SWPPP is to establish policy, responsibilities, and procedures for the stormwater pollution program and to provide technical guidance on pollution prevention due to stormwater runoff from industrial areas.

The stormwater program is designed to reduce the discharge of pollutants into receiving waters of the United States. Elimination of non-stormwater discharges and source controls are the major elements of the stormwater program. The SWPPP consists of Best Management Practices (BMPs), structural controls, education, and inspection procedures to be followed at Brunswick Executive Airport to minimize stormwater pollution.

1.1 PLAN LOCATION

The original signed copy of this document will be retained in MRRA offices at 15 Terminal Road, Suite 200, Brunswick, Maine.

1.2 PLAN IMPLEMENTATION

The effectiveness of this Plan is dependent upon the adoption of practical stormwater pollution prevention procedures and the willingness of personnel to comply with them. Site personnel must be familiar with all SWPPP protocol and procedures.

2.0 STORMWATER POLLUTION PREVENTION PERSONNEL AND RESPONSIBILITIES

MRRA is responsible for stormwater management activities at Brunswick Executive Airport. Members of the MRRA stormwater pollution prevention team are listed in Table 2.1.

Table 2.1: MRRA Stormwater Pollution Prevention Personnel

PERSONNEL/POSITION	CONTACT INFORMATION	ROLES/RESPONSIBILITIES
Woodie Bartley, POC 1	207-798-6512	• Coordinate Plan development and updates, and implementation • Coordinate site inspections • Oversee sampling program • Coordinate employee training programs • Will keep original working SWPPP document • Maintain all records and ensure required reports are submitted • Prepare and send results to POC 2 • Coordinate with MRRA tenants and their activities • Carry out quarterly visual monitoring and numeric monitoring as required by MEDEP under this permit
Eric Perkins, POC 2 Stacy Revels, POC 3 Johanna Sigel, POC 4	207-798-6512	• Assist POC 1 with all above activities

3.0 RELATED PLANS FOR BRUNSWICK EXECUTIVE AIRPORT

MRRA and/or its tenants have or will have other related plans that outline daily management, contingency, emergency response, and environmental compliance measures that are related to stormwater pollution prevention and management.

- **Spill Prevention Control and Countermeasures (SPCC) Plan**: FlightLevel Aviation, the fixed base operator for Brunswick Executive Airport, completed a SPCC Plan. This plan outlines the prevention of any discharge of oil into navigable waters or adjoining shorelines. The main thrust of the SPCC regulation is prevention as opposed to after-the-fact reactive measures commonly described in Oil Spill Contingency Plans.
- **Hazardous Waste Management Plan**: Companies at Brunswick Executive Airport that generate, store and dispose of hazardous waste will be in charge of completing their respective plans, if applicable. A Hazardous Waste Management Plan (HWMP) describes procedures to be followed in the generation, storage, and disposal of hazardous waste, non-hazardous chemical wastes, waste oil and reclaimed fuel.
- **PFAS Management Plan**: MRRA will be working with the Navy, MEDEP and USEPA on the preparation of a PFAS Management Plan for Brunswick Executive Airport that outlines a proactive and comprehensive approach to managing PFAS contaminants in the stormwater system and when encountering these substances during construction activities.

4.0 SITE ASSESSMENT

4.1 General Description

Formerly part of the Naval Air Station Brunswick (NASB), Brunswick Executive Airport is a roughly 1,100-acre general aviation airport located completely within the jurisdictional limits of the Town of Brunswick. On August 24, 2005, the Federal Base Realignment and Closure (BRAC) Commission voted to close NASB MRRA received the airport property through a Public Benefit Conveyance (PBC) and is the Federal Aviation Administration (FAA) designated airport sponsor.

Brunswick Executive Airport is using the facility's existing runways and taxiways, hangars and terminal facilities. Some areas that were used for aviation, such as the Navy's fuel storage area, have been converted to non-aviation use. New fuel tanks and dispensers have been installed closer to the FBO and general aviation terminal area, Building 200.

The facilities with relevant air sector activities that will be covered under this permit are listed in Table 4.2.

4.2 Stormwater Drainage Patterns

A site map has been included in Appendix A.

Brunswick Executive Airport drains into two major watersheds: The Mere Brook – Harpswell Cove watershed; and the Androscoggin watershed. Approximately 79 percent of the airport is in the Mere Brook – Harpswell Cove watershed. Mere Brook enters the airport property at the western boundary and flows into its natural streambed for approximately 1,000 linear feet. It is then routed under the airport operations area via a triple-barrel culvert for approximately 3,500 linear feet. When it exits the culverts, Mere Brook is joined by a number of small, intermittent streams to form a wide, tidal stream that discharges into the mouth of Harpswell Cove. The channel of Mere Brook is relatively narrow and deeply incised for most of its length.

Mere Brook is currently on Maine's list of Urban Impaired Streams and is a Class B Waterbody, which means it has been assessed by MEDEP as not meeting water quality standards for aquatic life use. Currently, it is at 24 percent impervious cover and the TMDL target is 10 percent (See Appendix F: TMDL Summary for Mere Brook).

Approximately 21 percent of the airport property is in the Androscoggin watershed. The Androscoggin River flows west to east along the northern boundary of the Town of Brunswick and forms the boundary between Cumberland and Sagadahoc Counties. At its closest point, the Androscoggin River is approximately 2,000 feet from the northern boundary of the property. Flows from several small tributaries originating on the property are divided into two unnamed tributaries that convey surface water to the Androscoggin River.

4.3 Potential Pollutant Sources

The following table describes common activities and pollutant sources for the air transportation and facilities sector. See Section 5.1 for more details on the operation of the deicing station.

Table 4.1: Common Activities and Pollutant Sources – Air Sector

ACTIVITY	POLLUTANT SOURCE	POLLUTANT
Aircraft storage	Engine oil, hydraulic fluid, fuel	Fuel, oil, hydraulic fluids, heavy metals
Aircraft deicing/anti-icing	Runoff of deicing/anti-icing fluid	Glycol fluids
Runway deicing/anti-icing	Urea-based deicing/anti-icing materials	Ammonia from urea-based compounds
Aircraft servicing	Engine oil, hydraulic fluid, fuel	Fuel, oil, hydraulic fluids, heavy metals
Aircraft, ground vehicle and equipment maintenance and washing	Spills and leaks of engine oils, hydraulic fluids, transmission oil, radiator fluids, chemical solvents used for parts cleaning, waste parts, batteries, oil and fuel filters, oily rags, spent wash water	Spent solvents, oil, heavy metals, ethylene glycol, acid/alkaline wastes, detergents
Runway maintenance	Tire rubber, oil and grease, paint	Debris, oil

	chips, and jet fuel	
Material handling: transfer storage disposal	Fueling: spills, leaks and hosing area Liquid storage in above ground storage: spills and overfills, external corrosion, failure of piping systems Waste material storage and disposal: paint solids, solvents, trash, spent abrasives, petroleum products	Fuel oil, heavy metals, material being stored, paint solids, spent solvents
Fuel truck storage	Engine oils, fuel, transmission fluid	Fuel oil, hydraulic fluids

Table 4.2: Facilities with Relevant Air Sector Activities

FACILITY	ACTIVITIES/OPERATIONS	TENANTS
Hangar 6	Aircraft Maintenance (business jets)	Tempus Jets
Hangar 6	Aircraft Maintenance (small aircraft)	American Classic Aviation
Hangar 6	Aircraft Storage	Flight Level Aviation
Hangar 4	Aircraft Maintenance (business jets)	Precision Air
T hangar	Aircraft Storage	10 multiple owners
TechPlace	Aircraft Manufacturing	Clamar Floats/Atol USA
Hangar 5	Aircraft Storage	MRRA & Flight Level Aviation
Hangar 5	Aircraft Maintenance (small aircraft)	Sunbird Aviation
Hangar 7	Aircraft Storage	Flight Level Aviation
FBO Fuel Farm	Aircraft fueling	Flight Level Aviation
Building 292	Airport Runway Maintenance	MRRA
Building 251	Aircraft Deicing Operations	MRRA, Flight Level Aviation

Summary of Potential Pollutant Sources

This section describes activities, materials and physical features of Brunswick Executive Airport that may contribute significant amounts of pollutants to stormwater runoff or, during periods of dry weather, result in pollutant discharges through the storm drainage system that drains the property. This assessment of stormwater pollution risk will support subsequent efforts to identify and set priorities for changes in materials, material management practices, and/or site features. In addition, the selection of appropriate structural and non-structural control techniques can be evaluated and implemented.

Fueling Operations

Fuel is the major potential pollutant on Brunswick Landing. The storage locations and dispensing stations are listed in Table 4.3, below.

Table 4.3: Brunswick Executive Airport Fuel Throughput (Projected)

LOCATION	FUEL TYPE	ANNUAL THROUGHPUT (GALLONS)
Fuel Farm	Jet-A, 100 LL Fuel	1 Million Gallons (Max.)

Aircraft Deicing/Anti-Icing

Deicing will be accomplished by physical removal of the snow and ice from the surfaces of the aircraft. Fixed Base Operator (FBO) personnel will sweep off the wings and other surfaces with brooms. Small spray cans of deicing fluid will also be used on the deicing pad.

Deicing agents: In 1994, to ensure compliance with the Clean Air Act, the Navy shifted from the use of ethylene glycol to propylene glycol. MRRA will continue to use propylene glycol for all aircraft deicing (See Table 4.4 below).

Table 4.4: Aircraft Deicing/Anti-Icing at Brunswick Executive Airport

DEICING SEASON	DEICING AGENT	# AIRCRAFT DEICED	TOTAL DEICING AGENT USED (Gallons)
November - April	Propylene Glycol	TBD	TBD

Aircraft Servicing

A variety of combined activities come under the heading of aircraft servicing, including aircraft storage, maintenance, deicing, and runway deicing. The following is a brief description of the elements of aircraft operations.

Aircraft Storage.

Normally, the aircraft will be housed on the parking ramps next to the hangars. During storage, qualified personnel perform regular inspections and conduct tests, including drawing fuel and fluid samples. Any major spill that might occur during aircraft storage has the potential of entering the storm sewer system.

Any spills occurring on the northernmost area of the parking ramp, adjacent to Hangar 6, could flow north to a catch basin and into an unnamed tributary, and eventually into the Androscoggin River and Merrymeeting Bay. All spills flow through a series of detention ponds, prior to leaving Brunswick Landing.

A spill occurring from the midpoint of Hangar 6 to a point past Hangar 5 could flow to any number of catch basins and into the Picnic Pond System to an unnamed tributary and then to Harpswell Cove via Mere Brook.

A spill occurring at any place in the southernmost area of the parking ramp (south of Hangar 5) could flow through a single retention pond, then into Mere Brook and Harpswell Cove.

Aircraft, Ground Vehicle and Equipment Maintenance and Washing

Aircraft Maintenance

Hangar spills that result from maintenance activities have a low potential for contributing to stormwater pollution. Maintenance operations that take place on the parking ramp have moderate potential for stormwater pollution.

Runway Maintenance.

MRRA enlists the services of contractors to maintain the runway.

Table 4.5: Site Evaluation of Vehicle and Equipment Maintenance Facilities

BUILDING	RESPONSIBLE ACTIVITY	MAINTENANCE TYPE	POTENTIAL STORMWATER CONTAMINATES
Hangar 4	Precision Aviation	Routine maintenance of aircraft	Fuel, oil and lubricants
Hangar 5	MRRA, FlightLevel Aviation & Sunbird Aviation	Routine maintenance of aircraft	Fuel, oil and lubricants
Hangar 6	Tempus Jets,& American Classic Aviation	Routine maintenance of aircraft	Fuel, oil and lubricants
Hangars 6 & 7	FlightLevel Aviation	Routine maintenance of aircraft	Fuel, oil and lubricants
TechPlace	MRRA	Small business incubator	TBD
T hangars	Multiple tenants	Routine maintenance of aircraft	Fuel, oil and lubricants
Building 292	MRRA	Snow Removal Equipment	Fuel, Oil, Lubricant

Significant Spills and Leaks

There have not been any significant spills or leaks under MRRA's ownership – since taking possession from the Navy in 2011.

5.0 STORMWATER MANAGEMENT

All of the facilities at Brunswick Executive Airport are required to comply with the Best Management Practices (BMPs) outlined in this SWPPP, whether or not they have a site-specific plan. The following sections outline the applicable BMPs for all industrial activities at Brunswick Executive Airport. In addition, all new development and construction activities must comply with the State's stormwater management rules and regulations.

5.1 Non-Structural BMPs

Good Housekeeping

Good housekeeping practices are intended to keep a clean and orderly work environment. The most effective first step toward preventing stormwater pollution from industrial sites is using common sense to improve housekeeping methods. MRRA and its tenants will implement the following procedures to promote good housekeeping:

- Improved operation and maintenance of industrial machinery and processes.
- Material storage practices;
- Routine and regular clean-up schedules;
- Maintaining well organized work areas; and
- Training schedules_

Operation and Maintenance

These procedures ensure that equipment is working properly. BMPs include:

- Keeping dry and clean floors and ground surfaces. Keeping surfaces clean and dry makes leaks more visible and easier to clean.
- Regularly disposing of garbage.
- Ensuring that equipment is working properly. Properly maintained equipment has a lower risk of malfunctioning.
- Routinely inspecting for leaks or conditions that could lead to the discharge of chemicals or contact of stormwater with raw materials, materials or products in process, or waste materials.

Materials Storage Practices/Minimizing Exposure

Improper storage can result in the release of materials and chemicals, resulting in stormwater runoff pollution. Proper storage techniques to be used at Brunswick Executive Airport include:

- Providing adequate aisle space to facilitate material transfer and ease access for inspections.
- Storing containers, drums and bags away from direct traffic routes to prevent accidental spills. Storing drums on special spill pallets.
- When stacking containers, doing so in accordance with the manufacturer's instructions to avoid damaging the containers from improper weight distribution.
- Storing containers off the ground to prevent corrosion.

Preventative Maintenance

All companies or operations at Brunswick Executive Airport that own or operate equipment, vehicles, or aircraft are required to implement a preventative maintenance program if one is not

in place. Preventative maintenance involves the regular inspection and testing of equipment and operational systems. These inspections could uncover conditions such as cracks or slow leaks, which could cause breakdowns or failures that result in stormwater discharge of pollutants. An acceptable program should include the following elements:

- Identification of equipment, systems and facility areas to be inspected;
- A schedule for periodic inspections or tests of equipment and systems;
- Appropriate and timely adjustments, repair, or replacement of equipment and systems; and
- Maintenance of complete records on inspections, equipment and systems.

Source Material and Waste Storage

There are several methods of storage for materials and waste at Brunswick Executive Airport, including:

1. Aboveground Storage Tanks (ASTs);
2. Underground Storage Tanks (USTs);
3. Drum Storage;
4. Satellite Accumulation Areas; and
5. Material Stockpiles.

Aboveground Storage Tanks (AST). Brunswick Executive Airport has ASTs at various locations. The ASTs are used for storing materials such as waste oil, fuel oil, jet fuels, and other liquids. The following BMPs have been developed to correctly install and maintain ASTs to minimize the potential for failure.

Construction and Condition Standards. The existing 1994 standards have been developed for use when installing new and evaluating existing ASTs. These requirements are in addition to other existing American Society of Testing Materials (ASTM) standards. In the case of conflict, when designing new tanks or evaluating existing tanks, the more stringent requirement will always be used. Furthermore, all existing ASTs identified as deficient by MRRA will be a priority to retrofit. The following standards apply:

- An AST will be given preference over an Underground Storage Tank (UST). USTs will be used only when an aboveground option is not practical.
- ASTs are to be installed on an impervious surface. Concrete foundations suitable for the tank being installed will be provided.
- All ASTs provide 110 percent secondary containment. In selecting the type of containment, the MEDEP preference for berm versus double wall will be considered, and a berm will be used whenever possible.
- All ASTs will be protected from traffic by means of bollards, curbs, guard rails or other similar positive control devices.
- All piping should be aboveground whenever possible. All aboveground piping shall be double wall or otherwise secondarily contained. If any underground piping is used, it shall be provided with secondary containment and leak detection in accordance with the

Title 38 of the Maine Revised Statutes Annotated (MRSA), Chapter 691 (UST regulations).

- All ASTs and other containers containing flammables shall be labeled as such and shall indicate material type (i.e. fuel oil, diesel, gasoline, waste oil, etc.).
- These standards will pertain to all storage of over 55 gallons for a single container and 75 gallons total volume for multiple containers regardless of the POL material stored. POL products include, but are not limited to: fuels, oils, lubricants, grease, waste oils, etc.
- Locations and descriptions of all new facilities will be provided to MRRA for required permitting and SPCC and SWPPP modifications. No installation will be constructed without approval of the MRRA POC.

Inspections and Testing. All ASTs must be inspected and documented in accordance with the Spill Prevention Control and Countermeasures (SPCC) plan associated with that AST and documentation must be on file in the MRRA office.

Drum Storage. Brunswick Executive Airport houses several drums of material in various locations. These drums may be empty or contain hazardous wastes, nonhazardous wastes, hazardous materials, nonhazardous materials, cleaning compounds, oil, solvents, spill clean-up equipment, and several other miscellaneous source materials. There are two different types of secondary containment for drum storage. Plastic overpack drums are designed to fully encapsulate a drum for various reasons, including spills and leaks. Drums can also be stored in a secondary containment berm, on pallets. The berm should be equipped with a drain and a discharge valve maintained closed. Any water accumulation in the containment area must be inspected for contamination prior to discharge. If the contents of the drums would produce a visible sheen on the water, the water to be discharged must be visually inspected for sheen prior to discharge. If the contents would not produce a visible sheen the water must be appropriately sampled before discharge.

Vehicle/Aircraft Support Equipment

This section outlines the requirements for vehicle maintenance at Brunswick Executive Airport. The following BMPs are designed to be used in all of the vehicle and maintenance areas.

Parts Cleaning. Parts are routinely cleaned in tanks containing solvents. These tanks should be located away from any drainage systems. Parts cleaned using solvents must be thoroughly dried using rags and the rags should be disposed of afterwards. When the cleaning solvents are routinely changed, they must be disposed of as hazardous waste. Pertaining to DEP regulations, the following BMPs must be adhered to when operating any parts cleaning tank:

1. Close the cover whenever parts are not being handled in the cold cleaning degreaser.
2. Drain the cleaned parts for at least fifteen seconds or until dripping ceases.
3. If used, supply a solvent spray that is a solid fluid stream (not a fine, atomized, or shower-type spray) at a pressure that does not exceed ten pounds per square inch gauge (psig).
4. Do not degrease porous or adsorbent materials, such as cloth, leather, wood, or rope.
5. Minimize drafts across the top of each cold cleaning degreaser, such that whenever the cover is open, the cold cleaning degreaser is not exposed to drafts greater than 131.2 feet

per minute (ft/min), as measured between 3.28 and 6.56 feet upwind and at an equal elevation of the tank lip.

6. Do not operate the cleaning tank if any of the components of the tank are leaking and have not been repaired.

Painting Best Management Practices. All painting will be performed indoors, in special designated areas. No painting will be allowed outdoors. Painting uses materials or creates wastes that are sometimes hazardous. If painting BMPs are not adhered to, stormwater runoff from areas where these activities occur can become polluted by solvents and dusts from sanding and grinding. These potentially harmful substances in stormwater can enter water bodies directly through storm drains.

Spray Painting Enclosures and Required Equipment. Spray painting is permitted, only inside a building to prevent over-spray from being released to the environment. Activities are encouraged to use low volatile organic compound (VOC) paint where feasible. If paint spray guns are used, they must be high-volume, low-pressure (HVLP) guns. Finally, when spraying paint, operators must be cognizant of the fact that an effort must be made to reduce overspray. This improves paint transfer efficiency.

- Spray Painting. In these instances, special precautions must be taken to ensure that emissions are limited or eliminated entirely. These spray-painting operations must be conducted within a closed building or temporary enclosure with adequate ventilation. Ground covering such as tarps, drip pans, or other spill collection devices must be in place to collect over-spray and excess paint if practical. After the paint operations are completed, all waste paint, solvent, or other liquid materials must be collected and segregated, properly packaged, and properly managed.
- Painting by Physical Application. Physical application is applying paint with brushes, rollers or other hand-held means. This is permitted both inside and outside. Nevertheless, the following precautions must be followed to minimize stormwater pollution:
    - Tarps or drop cloths must completely cover the surrounding area to prevent the release of contaminants by inadvertent splatter or spillage.
    - All excess paint, solvent, or other liquid materials must be collected and segregated, properly packaged and disposed of properly.

Sanding and Sandblasting. In most painting operations, preparation work requires that old paint and debris be removed by physical means.

Sandblasting: Sandblasting is permitted only inside a special sandblasting booth. Sandblasting area is fully enclosed and has provisions to capture all spent sandblast media and associated dust. In addition, the sandblasting enclosure has air filters installed to minimize escape of dust. The activity performing the sandblasting must use approved media. Spent sandblast media must be segregated and disposed of in accordance with its hazard class. If an alternative enclosure is to be used, the enclosure must be approved by MRRA prior to being used.

Sanding and Grinding: This method of surface preparation is preferable, except when lead paint is being removed and if the surface can be adequately prepared. Sanding and grinding can be

completed outside an enclosure provided that areas outdoors where sanding is done are covered with either a tarp or drop cloth to collect paint debris that is generated. Abrasive sanding can be conducted indoors where the floor is impervious and there are no floor drains in the immediate area. The residue from abrasive sanding must be swept up or vacuumed immediately when sanding is finished.

General Practices in Maintenance Areas. Even with the proper management techniques, operational or small spills occasionally occur in maintenance activities. These small operational spills must be cleaned without using water. Rags, absorbent pads or speedy-dry are the only approved materials for removing spilled material in these circumstances. In maintaining a clean work environment, personnel should observe the following BMPs:

- Hosing down work areas is prohibited. If the indoor work area has to be hosed, the drain must exit to the municipal (sanitary) sewer system and have an oil/water separator in line. If questions about drains arise, contact MRRA before discharging. Hangar decks are cleaned with a scrubbing unit called a "Zamboni." The units are built to wash the deck and collect the residual water. All water is then discharged through an oil/water separator into the sanitary sewer system.
- Drip pans must be used to collect leaking or dripping fluids during routine maintenance. Oil, fuel and waste antifreeze are recycled and should be kept separated when collected and stored. A drip pan must be put under equipment when unclipping hoses, unscrewing filters, or removing parts. In addition, a drip pan must be placed under any equipment that might leak while work is performed to keep splatters or drips off the floor.
- After removing fluids from a piece of equipment, promptly transfer used fluids to the proper recycling or disposal drums. Do not leave full drip pans or other containers unattended. Locate waste and recycling drums in controlled areas. Again, these areas must have secondary containment to collect any inadvertent spillage.

Fueling Operations

General Fueling BMPs. In addition to the procedures developed in the SPCC Plan, several other BMPs will be adopted to further reduce the risk of stormwater pollution. These BMPs include:

- Insuring the installation and proper operation of overfill prevention equipment;
- Prohibiting the topping off of fuel storage tanks;
- Proper cleaning of fueling areas;
- Control of petroleum spills; and
- Developing employee awareness of stormwater pollution prevention in fueling operations.

Overfill Prevention. All fueling equipment used on Brunswick Executive Airport must have an overfill prevention device and must be maintained on a regular basis by the operators. Operators must be aware of the proper use of these devices. For example, all fueling pumps for refueling vehicles must have a back pressure shut-off to prevent overfilling. Systems for refueling stationary tanks must have equipment that restricts the flow of fuel before the tank is filled. Specific tanks may develop problems such that overfill prevention equipment will not work. When this happens, the operator must stop fueling and immediately contact Jim Nall General Manager, FlightLevel, to initiate repair.

Proper Cleaning of Refueling Areas. Refueling equipment will be cleaned using only physical removal methods (rags, cloths and towels). Flushing the fueling area with running water is prohibited.

Shipping and Receiving

Materials spilled, leaked or lost during loading/unloading may collect in the soil on other surfaces and may be carried away by runoff or when the area is cleaned. Stormwater may wash off pollutants from machinery used to load or unload materials. The following BMPs are intended to reduce or eliminate the potential for stormwater contamination:

- Areas to load and unload vehicles must have designed vehicle access. In addition, loading and unloading areas must be located so that leaks can be contained in containment or flow diversion systems. These areas must have spill response equipment permanently on hand and the spill response telephone number prominently posted.
- Covered loading and unloading areas, such as building overhangs, reduce exposure of materials, vehicles and equipment to rain. Any loading areas that are uncovered should be used only when it is not raining if possible. If it is raining, special attention must be made not to spread any contamination to the stormwater system.

Vehicle and Aircraft Washing (Corrosion Control)

Vehicle and aircraft washing is permitted inside hangars at Brunswick Executive Airport. Discharge from vehicle and aircraft washing inside the hangar are connected to an oil/water separator and go to the sanitary sewer.

Aircraft Washing. Aircraft washing has to be completed within a hangar. All effluent must stay within the hangar and be discharged into the floor drains. Aircraft washing is permitted in any hangar at Brunswick Executive Airport. Aircraft washing on taxiways, runways, or parking aprons is strictly prohibited. However, rinsing aircraft, with no detergent added, is permitted on the Taxiway "I" Washrack.

Vehicle and Heavy Equipment Washing. Vehicle washing inside the industrial area must be completed over an approved washrack. A washrack is an area that is graded to a central drain, which goes to an oil/water separator and discharges to a sanitary sewer. The following washracks are approved for washing of vehicles:

- Building 86, Ground Support Equipment
- All hangars.

All washracks are within enclosed (4-sided) structures. It is important to ensure that all residue and effluent stay within the washrack and be discharged down the drains, which are connected to an oil/water separator/sanitary sewer.

Aircraft Maintenance

Aircraft Deicing. Deicing chemicals such as propylene glycol are necessary to maintain aircraft

safety and runoff of residuals from their use can adversely impact the environment. For this reason, minimization of deicing materials, while maintaining safe conditions, has become a major consideration for airfield operations. Prior to the deicing of an aircraft, excess snow is removed by mechanical methods. After mechanical methods are used to remove excess snow, the valve to the reclaim system is opened to collect any contaminants. Hot water is used to remove ice from the surfaces, and then a mixture of propylene glycol is used to deice aircraft before takeoff. After the aircraft has been deiced, the deicing pad is rinsed again to flush any contaminants into the reclaim system. The control valve is left open for a period of time to allow the contaminates to drain completely, then the reclaim control valve is closed. Deicing operations typically use on average, fifty-six (56)gallons of propylene glycol in various concentrations.

The Navy constructed an aircraft deicing pad. Aircraft is deiced on the pad, residual deicing fluid collected and stored in a 45,000 gallon tank, then disposed of off-site.

Sediment and Erosion Control

Environmental Impacts of Erosion and Sedimentation. Eroded soil contains nitrogen, phosphorus and other nutrients. When carried into water bodies, these nutrients trigger algal blooms that reduce water clarity, deplete oxygen, lead to fish kills and create odors. Erosion of streambanks and adjacent areas destroys streamside vegetation that provides aquatic and wildlife habitats. Excessive deposition of sediments in streams blankets the bottom fauna, "paves" stream bottoms, and destroys fish spawning areas. Turbidity from sediment reduces in-stream photosynthesis, which leads to reduced food supply and habitat. Finally, suspended sediment abrades and coats aquatic organisms, weakening them. Erosion removes the smaller and less dense constituents of topsoil. These constituents, clay and fine silt particles and organic material, hold nutrients that plants require. The remaining subsoil is often hard, rocky, and infertile. Thus reestablishment of vegetation is difficult and the eroded soil produces less growth.

Erosion and Sediment Controls. Erosion and sediment controls will be incorporated into all projects. These measures are both temporary and permanent in nature. Temporary measures serve to meet short-term goals of minimizing erosion and restricting the transport of sediment within and from the limits of the site. Permanent measures serve to meet long-term goals of sustainable stabilization of the site with durable erosion control features to control sediment discharge from the site. Details and erosion control-specific notes will be provided in the construction drawings and specifications for all projects. For more information on erosion control, refer to the Maine Erosion and Sedimentation Control BMP manual, 2003 edition, provided by the Maine Department of Environmental Protection.

For major projects, general location and site plans will be provided in the construction drawings. The site plan drawings will show existing and proposed changes, areas of disturbance, and locations of major features. Also, a materials management plan has been developed for Brunswick Executive Airport that describes the procedures required for the management of contaminated soil and equipment encountered during development activities.

Stockpiles. All stockpile sites will be approved by the MRRA POC. Any stockpile site that temporarily ceases use for over 21 days will be stabilized with temporary seed and mulch within

14 days of the last construction activity.

Waste Materials. Projects requiring a Stormwater Permit will require a Construction Waste Management Plan. The Plan shall address both hazardous and non-hazardous wastes. Any use of hazardous materials will be approved by MRRA.

Spill Prevention and Response

FlightLevel Aviation has a Spill Prevention Control and Countermeasure Plan for Brunswick Executive Airport. This Plan was prepared in accordance with the United States Environmental Protection Agency (EPA), Code of Federal Regulations, 40 CFR Part 112 – Oil Pollution Prevention (40 CFR 112). This Plan was developed to prevent the discharge of oil and oil products and established procedures for a coordinated response to oil discharges. Copies of this Plan are kept at both the FlightLevel Aviation office in Building 200 and the MRRA office in Building 200.

5.2 Structural BMPs

Detention Ponds. There are four drainage systems on the property that have been significantly modified in the past to clean and treat stormwater before it is discharged. These drainage systems are listed and described below.

1. Picnic Pond System. The Picnic Pond system is made up of three ponds and is the repository for the stormwater that drains from over eighty (80) percent of the Brunswick Landing industrial area. Starting at Outfall 2, located behind Building 201 (formerly "the Galley"), this system stretches from there to the Picnic Pond Dam.
    a. Dike "A." The first BMP is located directly behind the former Navy Relief/Sea Cadet center. This dike is designed to slow the effluent originating at Outfall 2. Because of the airfield operations, historically much of the pollution is polycyclic aromatic hydrocarbons (PAHs), which are the products of incomplete combustion of jet fuel. Fortunately, these products are heavier than water and rapidly settle out. This structure will continue to be used to collect and concentrate these products and will also serve as a sedimentation pond to pick up road sand.
    b. Dike "B." Dike B is located approximately 200 yards downstream of Dike A, behind Building 516 (formerly "Niteflite"). Like Dike A, this structure has a dual purpose of being a line of defense for spill control; however, it is also valuable for "wet treatment." Contaminants will be retained behind this structure and will be broken down to low levels before discharging to Picnic Pond.
    c. Picnic Pond. Picnic Pond serves as the last line of defense for spill control originating from the industrial area. In addition, the pond further increases the detention time for stormwater.
2. Mere Brook Spill Control Dam. This structure is located at the outfall of the south ramp, within the Weapons Compound. First and foremost, this structure serves as a water treatment device. It also provides significant protection to Mere Brook in the event of a large spill on the south ramp. Finally, this structure allows some wet treatment of stormwater as well as a settling pond for PAHs.

Disposal to Sanitary Sewer. At present there are no known stormwater/sanitary sewer cross-connections. In 1997, the Navy performed a thorough study, which included visual, smoke and dye-testing.

5.3 PFAS Management

Under the United States federal Superfund law, officially known as the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), the US Navy is legally responsible for the remediation of any designated contaminants. In addition, under CERCLA, the Navy is responsible for the investigation and remediation of any contamination resulting from its presence in perpetuity, as well as long-term monitoring of the remediated sites and base property.

The emerging contaminants associated with Per- and Polyfluoroalkyl Substances (PFAS) including PFOS & PFOA, are not currently defined as hazardous substances under CERCLA, but are considered to be pollutants or contaminants under the law. The NAS Brunswick CERCLA Federal Facility Agreement between the Navy, EPA & MEDEP covers releases of CERCLA hazardous substances, pollutants, & contaminants at the former base.

Beginning in 2010, the Navy has been conducting PFAS investigations on and around the former base properties due to emerging concerns of PFAS-containing aqueous film-forming foam (AFFF). In 2019, the Navy completed a comprehensive evaluation of PFAS on the former Navy base to better understand the extent of the related issues. These studies have shown that PFAS is generally found in areas of historical industrial uses, such as the airport and areas where AFFF was stored or used for training purposes.

Based upon the comprehensive evaluation above, the Navy has initiated a Remedial Investigation/Feasibility Study (RI/FS) of the property, as well as a comprehensive assessment of the stormwater system to determine if the system is providing a pathway of contaminated groundwater to the drainage systems. If any pathways are discovered during this assessment, the Navy will be expected to mitigate appropriately.

Since its inception, MRRA has worked closely with the Navy, US EPA and the Maine DEP to help facilitate appropriate environmental remediation of contaminated sites and ensure the safe transfer of properties for redevelopment or conservation purposes in accordance with the Reuse Master Plan and meeting its legislative mandate.

As a recent example, MRRA has worked with these entities to establish a model protocol for the management and treatment of PFAS contaminants, should they be encountered during construction related activities. The Navy required, as part of all completed NAS Brunswick real property conveyances, that "...no access to groundwater for dewatering or other purposes be permitted without the prior written approval of the Navy and the applicable federal and state regulatory agencies".

Where construction activities are proposed on former NAS Brunswick property that is or has a potential to be contaminated above EPA's Lifetime Health Advisories for PFOS and PFOA, any ground water generated as part of the proposed construction activities will need to be properly managed and treated. The management and treatment of construction-generated ground water will be approved and coordinated by the Navy, in consultation with MEDEP and EPA.

As part of this process, the Navy has installed best available control technologies (Granulated Activated Carbon filter systems) for the treatment of PFAS substances in their water treatment facility. Should any PFAS contaminated groundwater be discovered during construction activities, the Navy will treat same in the facility.

MRRA will work with the Navy, MEDEP and USEPA on the development of a PFAS Management Plan reflective of the requirements and practices outlined above.

5.4 Summary of Sampling Data

Sampling data was not collected in the past but will be collected from Q3 2021 going forward.

5.5 Non-stormwater Discharge Evaluation

The only non-stormwater discharges found during site inspection evaluations on 9/17/2021 were uncontaminated condensate drainage from heat pumps, and those discharges are allowed under Special Condition C.2.d of the MSGP.

6.0 INSPECTION, MONITORING & TRAINING ACTIVITIES

6.1 Personnel Training

MRRA will conduct an annual training to relevant MRRA and tenant personnel on responsibilities to comply with this Plan. MRRA staff and the tenant POCs and personnel who are involved with the use, storage, or transfer of materials outside of or within the loading/unloading areas at the facility shall be familiar with the contents of their site-specific plan as well as this Plan. Tenant POCs will be trained by MRRA staff annually, and the tenant POCs will in turn train their personnel. MRRA Personnel shall be trained at the time of hire.

Records from the training sessions will be retained by MRRA and will include the date of the training session, leader of the training session, attendees' names, and a brief discussion of the topics covered. As situations change and the plan is updated, personnel shall be informed of plan modifications in training sessions. The training sessions shall at a minimum cover the following topics:

1. Spill Prevention and Response
    a. Identifying potential spill areas and drainage routes at the respective facility, including information on past spills and causes.
    b. Reporting spills in accordance with the SPCC.
    c. Specifying material handling procedures and storage requirements.
    d. Implementing spill response procedures.

2. Good Housekeeping
    a. Require regular vacuuming and/or sweeping of workspaces.
    b. Promptly clean up spilled materials to prevent polluted runoff.
    c. Identify places where brooms, vacuums, sorbents, foams, neutralizing agents, and other good housekeeping and spill response equipment is located.
    d. Display signs reminding personnel of the importance of good housekeeping.
    e. Discuss updated procedures and report on the progress of practicing good housekeeping.
    f. Provide instructions on securing drums and containers and frequently checking for leaks and spills.
    g. Outline a regular schedule for housekeeping activities.
    h. Provide instructions on conducting periodic inspections.
    i. Annual inspection/cleaning of deicing diversion CB before start of season.
3. Materials Management Practices
    a. Neatly organize materials for storage.
    b. Identify toxic and hazardous substances stored and handled on site.
    c. Discuss handling procedures for these materials.
    d. Discuss and provide instruction on implementing required BMPs.

The above-identified training session will be incorporated into existing environmental training programs wherever possible. Training must be completed prior to the implementation of BMPs at each site.

6.2 Monitoring

Visual Monitoring

Once every quarter, MRRA and/or its contractors will visually inspect the stormwater outfalls at the sites listed in Table 6.1 and denoted in Appendix A. The visual examination will be done during daylight hours. As defined in Special Condition K.1.b and K.3.a-d which require Visual Monitoring of the stormwater discharge to be collected within the first 60 minutes of the beginning of the discharge. If not collected within the first 60 minutes an explanation as to the reason why must be documented. Samples collected more than 2.25 hours after the beginning of the discharge during a qualifying storm event are not acceptable and will be rejected by the Department. If there has not been a qualifying storm event during the calendar quarter, a document must be added to the SWPPP to document the reason. (Snow cover, frozen, not operating, dangerous condition, etc.)

Analytical Monitoring

- **Benchmark:** There is no benchmark monitoring required at this time at Brunswick Landing (per DEP).
- **Numeric:** There is no numeric monitoring required at this time at Brunswick Landing (per DEP)
- **Impaired Waters.** Mere Brook is currently on Maine's list of Urban Impaired Streams (UIS) and is a Class B waterbody, which means it has been assessed by DEP as not

meeting water quality standards for aquatic life use. Currently, it is at 24 percent impervious cover and the Total Maximum Daily Load (TMDL) target is 10 percent (See Appendix F: TMDL Summary for Mere Brook). The DEP will notify MRRA if impaired waters monitoring is required. The notice will include the DEP's decision as well as the reason for additional monitoring (MSGP, 4/26/11, Section E, Page 25). At that time, monitoring must be conducted quarterly at each outfall which discharges to the impaired waterbody (Mere Brook) for that parameter the waterbody is impaired for.

Table 6.1: Visual Monitoring Schedule for Brunswick Landing

Outfall #	Visual Monitoring	Benchmark Monitoring	Numeric Monitoring	Impaired Waters Monitoring	Monitoring Dates[1]
#1 Allagash	✓	N/A	N/A	N/A	-1st Quarter (Jan 1 – March 31) -2nd Quarter (April 1 – June 30) -3rd Quarter (Jul 1 – Sep 30) -4th Quarter (Oct 1 – Dec 31)
#2 Galley	✓	N/A	N/A	N/A	-1st Quarter (Jan 1 – March 31) -2nd Quarter (April 1 – June 30) -3rd Quarter (Jul 1 – Sep 30) -4th Quarter (Oct 1 – Dec 31)
#3 South Ramp Monitoring Location	✓	N/A	N/A	N/A	-1st Quarter (Jan 1 – March 31) -2nd Quarter (April 1 – June 30) -3rd Quarter (Jul 1 – Sep 30) -4th Quarter (Oct 1 – Dec 31)
#4 Runway Drainage	✓	N/A	N/A	N/A	-1st Quarter (Jan 1 – March 31) -2nd Quarter (April 1 – June 30) -3rd Quarter (Jul 1 – Sep 30) -4th Quarter (Oct 1 – Dec 31)

1.Visual examinations of industrial stormwater discharges must be performed once per monitoring quarter. If no qualifying storm event resulted i discharge from the facility during a monitoring quarter, the permittee is excused from visual monitoring from that quarter provided the permittee documents in the monitoring records that no runoff occurred.

6.3 Quarterly Site Compliance Inspections

Quarterly site compliance inspections will be conducted by MRRA and/or its contractors. The inspections will be evenly spaced with a minimum of sixty (60) days between inspections. The Quarterly Site Compliance Evaluation/Inspection checklist will be adapted and used for reporting, and if needed, a Corrective Action Report (CAR) will be generated. During the deicing season (per MSGP Appendix S) MRRA will conduct monthly inspections for all areas and equipment used in the deicing operations; this includes all the months for which deicing chemicals are used. MRRA shall also conduct one of the quarterly Site Compliance Inspections during a qualifying rain event during the deicing season or within thirty (30) days after deicing operations have ceased.

Table 6.2: Quarterly Site Compliance Inspection Schedule for Brunswick Landing

Site	Entity Doing Inspection	Inspection Dates[2]
Brunswick Executive Airport	MRRA, with DEP	-1st Quarter (Jan 1 – March 31) -2nd Quarter (April 1 – June 30) -3rd Quarter (Jul 1 – Sep 30) -4th Quarter (Oct 1 – Dec 31)

6.4 Recordkeeping and Reporting

Annual reporting is not required unless the Department's Industrial Stormwater Inspectors find deficiencies in the development or implementation of any portion of the SWPPP. If deficiencies are found, reports will be required for the next three consecutive permit years.

During the deicing season, monthly inspections must be conducted for all areas and equipment used in the deicing operations. At least one quarterly site inspection must be conducted during one qualifying rain event during the deicing season or within 30 days after deicing operations stop.

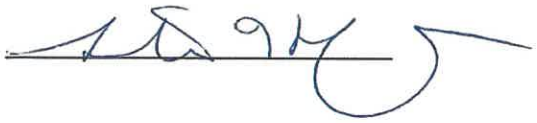
The SWPPP will be amended as follows, per MSGP (4/26/11):

1. A change in design, construction, operation, or maintenance at the facility that has a significant effect on the discharge or potential for discharge of pollutants from the facility, including the addition or reduction of industrial activity.
2. Monitoring, inspections or investigations by the permittee or by local, state or federal officials that determine the SWPPP is ineffective in eliminating or significantly minimizing pollutants from sources identified under PartV9D)(4), or is otherwise not achieving the general objectives of controlling pollutants in discharge from the facility.
3. A release of hazardous substances and oil (see 38 M.R.S.A. § 543, 550 and 1318-B).
4. A discharge authorized under this General Permit that is determined by Department notification to cause or have the reasonable potential to cause or contribute to, the violation of an applicable water quality standard. The SWPPP must document actions necessary to ensure future discharge(s) do not cause or contribute to the violation of a water quality standard.
5. A change in policies and procedures of MRRA and its tenants that enhance pollution prevention, or the development of new best management practices and that minimize the stormwater impact on the environment.

Any incidents of noncompliance and steps taken to prevent recurring incidents of noncompliance will be annotated. The results of the audit will remain on file at the MRRA office and be open to inspection by EPA and MEDEP personnel during normal working hours.

7.0 CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowingly violating the law.



Steven H. Levesque

Name

Executive Director

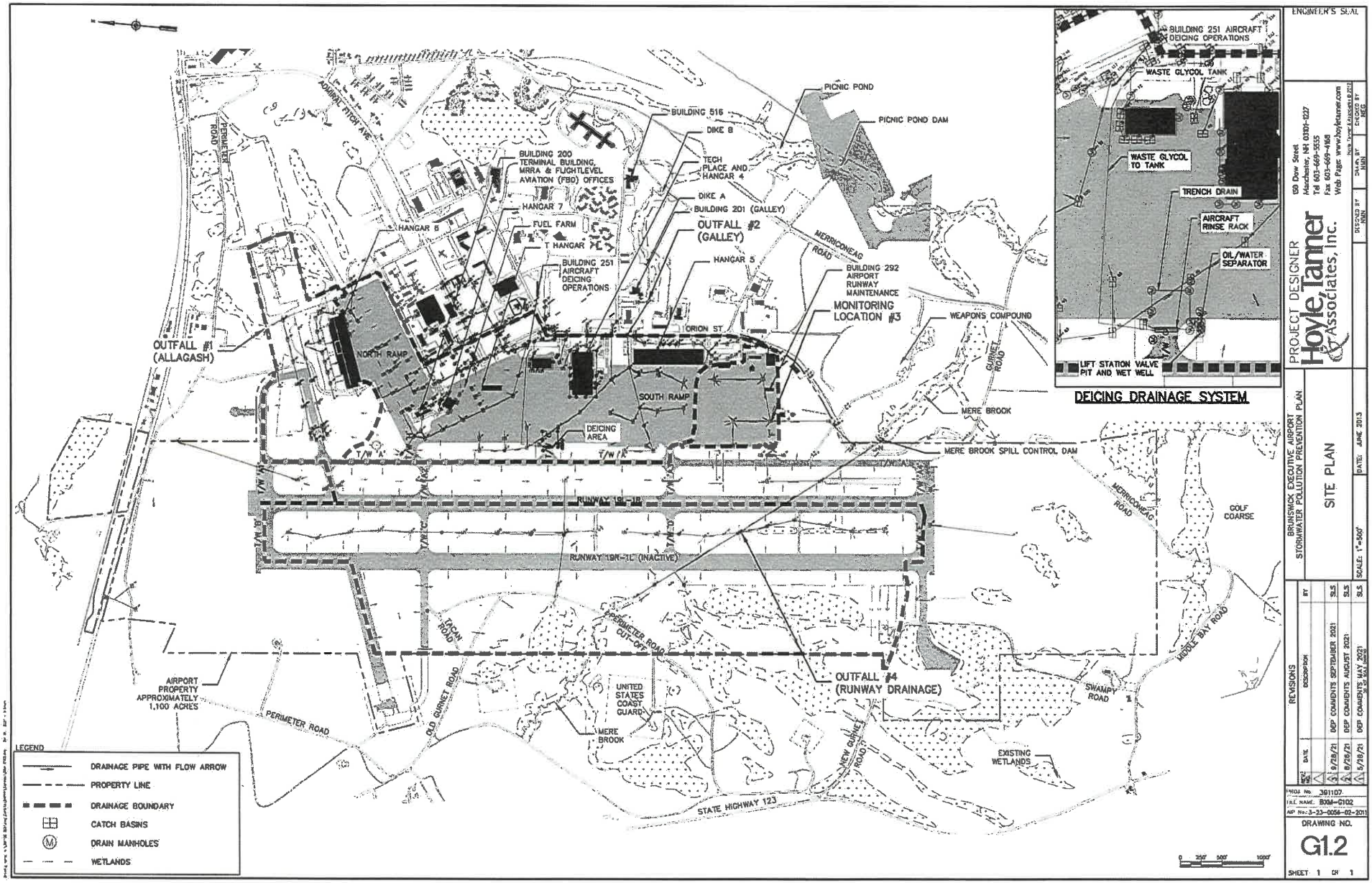
Title

12/16/2021

Date

APPENDIX A

Stormwater Pollution Prevention Plan
Drainage Map



ENGINEER'S SEAL

PROJECT DESIGNER
Hoyle, Tanner & Associates, Inc.
50 Dow Street
Manchester, NH 03101-1227
Tel 603-669-5555
Fax 603-669-1958
Web Page: www.hoyletanner.com

DESIGNED BY: MRG | DRAWN BY: MRG | CHECKED BY: MRG | DATE: 6/2013

BRUNSWICK EXECUTIVE AIRPORT
STORMWATER POLLUTION PREVENTION PLAN

SITE PLAN

SCALE: 1"=500' | DATE: JUNE 2013

NO.	DATE	DESCRIPTION	BY
4	9/29/21	DEP COMMENTS SEPTEMBER 2021	SLS
3	8/26/21	DEP COMMENTS AUGUST 2021	SLS
2	6/28/21	DEP COMMENTS MAY 2021	SLS
1	5/18/21	2-YR SNO LOADING	

PROJ. No. 391107
FILE NAME: B004-G102
APP. No.: 3-23-0058-02-2011

DRAWING NO.
G1.2

SHEET 1 OF 1

APPENDIX B

Notice of Intent
MRRA

NOTICE OF INTENT TO COMPLY WITH THE MAINE MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

Notice of Intent (NOI) submission constitutes the expressed intent of the entity in Section A (of this form) and authorizes the discharge of stormwater associated with industrial activity to waters of the State (excluding groundwater), from the facility/site identified in Section B (of this form), under Maine's Multi-sector General Permit (MSGP). This also certifies that the responsible official understands and meets the eligibility conditions of Part I of the MSGP, agrees to comply with all applicable terms and conditions of the MSGP, and understands that continued authorization under the MSGP is contingent on maintaining eligibility for coverage. **In order to be granted coverage the information on this form must be correct and up-to-date. Please send the completed form with any corrections or updates to the Maine Department of Environmental Protection, 17 State House Station, Augusta, ME 04333-0017. If you have not paid your Fall 2010 invoice be sure to include a check for $300 made payable to: Treasurer, State of Maine. Please read the instructions on the back prior to completing the NOI form.**

A. Company Information – Legal Name & Billing Address

Permit Owner Legal Name	Midcoast Regional Redevelopment Association	ME State Charter Number (if business):
Billing Address	2 Pegasus Street, Suite 1, Unit 2	
City/Town	Brunswick Maine 04011	
Daytime Phone: (with area code)	207 798-6512	
E-mail:	stevel@mrra.us	

The 4-digit Standard Industrial Classification (SIC) Code(s) or the 2-letter Activity Code(s) that best represent the industrial activity at the facility or any multiple sector-specific industrial activities.	SIC# or Activity Code	4512-4581	Additional SIC# or Activity Code

B. Facility/Site Physical Location

Facility/Site Name	Brunswick Executive Airport
Physical Address	2 Pegasus Street, Suite 1, Unit 2
City/Town	Brunswick Maine 04011
Daytime Phone:	207 798-6512
Title, Right, or Interest (to this site location):	Yes X
E-mail:	martym@mrra.us

C. Contact Person Information for this NOI

Permit Person	Tom Brubaker
	Public Works and Utilities Manager
Contact	2 Pegasus Street, Suite 1, Unit 2
	wick Maine 04011
Daytime	12
	tomb@mrra.us

NOTICE OF INTENT TO COMPLY WITH THE MAINE MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

Facility Latitude: (if known)	43° 53' 32.5" N	(if known)	069° 56' 19.8" W
Name(s) of the receiving waters: Mere Brook (aka Mare) and Androscoggin River		The facility discharges stormwater to a municipal separate stormwater sewer system (MS4). X	
Is the water considered impaired? X If yes, list category: Urban Impaired Stream		Town of Brunswick	

D. Permit Information

Applicable Sector(s) of industrial activity, as designated in Part I(B)(1) and Part I(B)(2) of the MSGP, that include associated discharges that you seek to have covered under this permit (check all that apply):

☐ Sector A	☐ Sector B	☐ Sector C	☐ Sector D	☐ Sector E	☐ Sector F	☐ Sector G	☐ Sector H
☐ Sector I	☐ Sector J	☐ Sector K	☐ Sector L	☐ Sector M	☐ Sector N	☐ Sector O	☐ Sector P
☐ Sector Q	☐ Sector R	X Sector U				☐ Sector W	☐ Sector X
☐ Sector Y	☐ Sector Z	☐ Sector AA	☐ Sector AB	☐ Sector AC	☐ Sector AD		

E. Certification of Responsible Official

I certify under penalty of law that I have personally examined the information submitted in this document and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. By my signature as a responsible official for the entity or individual identified in Section A of this NOI, I certify under penalty of law that that I am the operator of the facility, and have Title, Right or Interest, as indicated in Section B.

Printed Name:	Steve Levesque
Title:	Executive Director
Signature:	

OFFICE USE ONLY

In Good Standing ☐ Yes ☐ No		Permit ID		Acct. # 014-06A-1751-142

APPENDIX C

DEP Multisector General Permit

STATE OF MAINE

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Multi-Sector General Permit – Stormwater Discharge Associated With Industrial Activity

Maine Pollutant Discharge Elimination System Permit
Maine Waste Discharge License

Bureau of Water Quality

Final Permit - December 2016

MEPDES Permit #MER050000
Waste Discharge License #W008227-MN-C-R

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

MULTI-SECTOR GENERAL PERMIT – STORMWATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY

Table of Contents

PROCEDURAL AND REGULATORY SUMMARY	1
CONCLUSIONS	2
ACTION	3
SPECIAL CONDITIONS	
A. Authority	4
B. Definitions	4-6
C. Applicability and Eligibility	7-10
D. Notification, Decisions, and Effective Term of Coverage	10-13
E. Authorized Discharges	13
F. Narrative Effluent Limitations	13
G. Control Measures	14
H. Non-Numeric Technology-Based Effluent Limitations	14-17
I. Numeric Technology-Based Effluent Limitations	18
J. Stormwater Pollution Prevention Plan – General Requirements	18-19
K. Stormwater Pollution Prevention Plan – General Contents	19-22
L. Stormwater Pollution Prevention Plan – Control Measures	22
M. Stormwater Pollution Prevention Plan – Records	23
N. Monitoring Requirements	24-31
O. SWPPP Review and Corrective Actions	32-34
P. Retention of Records	34
Q. Reopening of Permit For Modification	34
R. Severability	35

ATTACHMENT A – SIC/NAICS Codes Covered by the General Permit

APPENDIX A. Sector A: Timber Products
APPENDIX B. Sector B: Paper and Allied Products Manufacturing
APPENDIX C. Sector C: Chemical and Allied Products Manufacturing, and Refining
APPENDIX D. Sector D: Asphalt Paving and Roofing Materials and Lubricant Manufacturers
APPENDIX E. Sector E: Glass, Clay, Cement, Concrete, and Gypsum Products
APPENDIX F. Sector F: Primary Metals
APPENDIX G. Sector G: Metal Mining
APPENDIX H. Sector H: Coal Mines and Coal Mining-Related Facilities
APPENDIX I. Sector I: Oil and Gas Extraction
APPENDIX J. Sector J: Non-Metallic Mineral Mining and Dressing
APPENDIX K. Sector K: Hazardous Waste Treatment, Storage, or Disposal
APPENDIX L. Sector L: Landfills, Land Application Sites, and Open Dumps
APPENDIX M. Sector M: Automobile Salvage Yards
APPENDIX N. Sector N: Scrap Recycling and Waste Recycling
APPENDIX O. Sector O: Steam Electric Power Generating Facilities

APPENDIX P. Sector P: Land Transportation and Warehousing
APPENDIX Q. Sector Q: Water Transportation
APPENDIX R. Sector R: Ship and Boat Building and Repair Yards
APPENDIX S. Sector S: Air Transportation
APPENDIX T. Sector T: Treatment Works
APPENDIX U. Sector U: Food and Kindred Products
APPENDIX V. Sector V: Textile Mills, Apparel, and Other Fabric Products
APPENDIX W. Sector W: Furniture and Fixtures
APPENDIX X. Sector X: Printing and Publishing
APPENDIX Y. Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries
APPENDIX Z. Sector Z: Leather Tanning and Finishing
APPENDIX AA. Sector AA: Fabricated Metal Products
APPENDIX AB. Sector AB: Transportation Equipment, Industrial or Commercial Machinery
APPENDIX AC. Sector AC: Electronic, Electrical Equipment and Components Photographic and Optical Goods
APPENDIX AD: Sector AD: Stormwater Designated by the Department as Requiring a Permit

STANDARD CONDITIONS

FACT SHEET

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

MULTI-SECTOR GENERAL PERMIT FOR	)	MAINE POLLUTANT DISCHARGE
STORMWATER DISCHARGE ASSOCIATED	)	ELIMINATION SYSTEM PERMIT
WITH INDUSTRIAL ACTIVITY	)	
STATE OF MAINE	)	AND
#MER050000	)	WASTE DISCHARGE LICENSE
#W008227-MN-C-R **APPROVAL**	)	**RENEWAL**

In compliance with applicable provisions of *Pollution Control*, 38 M.R.S. §§ 411 – 424-B, *Water Classification Program*, 38 M.R.S. §§ 464 – 470 and *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, and applicable rules of the Maine Department of Environmental Protection (Department hereinafter), the Department has considered the renewal of Maine Pollutant Discharge Elimination System (MEPDES hereinafter) General Permit #MER050000 / Waste Discharge License (WDL) #W008227-5Y-B-R, which was issued on April 26, 2011, for a five-year term, with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

PROCEDURAL AND REGULATORY SUMMARY

On January 12, 2001, the Department received authorization from the U.S. Environmental Protection Agency (USEPA) to administer the National Pollutant Discharge Elimination System (NPDES) permit program in Maine. From that point forward, the program has been referenced as the MEPDES permit program.

On April 26, 2011, the Department issued *Stormwater Discharge Associated With Industrial Activity Multi-Sector General Permit* (General Permit) #MER050000 / WDL #W008227-5Y-B-R, for a five-year term. The April 26, 2011 General Permit superseded the initial General Permit, #MER050000 / WDL #W008227-5Y-A-N, which was issued on October 11, 2005 for a five-year term.

Beginning March 14, 2016, the Department commenced renewal proceedings and provided public notice of its intent to renew the April 26, 2011 General Permit in the *Bangor Daily, Kennebec Journal, Sun-Journal,* and *Portland Press Herald* newspapers. The notice solicited comments on a draft permit, when available, and provided an opportunity to request a public hearing.

CONCLUSIONS

Based on the findings in the attached permit and incorporated Fact Sheet, dated September 29, 2016, and subject to the special and standard conditions that follow, this Department makes the following **CONCLUSIONS:**

1. The discharge(s) covered under this General Permit, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.

2. The discharge(s) covered under this General Permit, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with State law.

3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S. § 464(4)(F), will be met, in that:

   (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;

   (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;

   (c) Where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;

   (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and

   (e) Where a discharge will result in lowering the existing water quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.

4. The discharge(s) covered under this General Permit is subject to effluent limitations that require application of best practicable treatment as defined in *Conditions of licenses*, 38 M.R.S. § 414-A(1)(D).

ACTION

Based on the findings and conclusions as stated above, the Department APPROVES the renewal of *Multi-Sector General Permit for Stormwater Discharge Associated With Industrial Activity*, #MER050000, for the discharge of stormwater associated with industrial activity and certain non-stormwater discharges to surface waters of the State, SUBJECT TO THE ATTACHED CONDITIONS, including:

1. The attached Special Conditions, including any effluent limitations and monitoring requirements.

2. *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits*, revised July 1, 2002, copy attached.

3. This General Permit and the authorization to discharge become effective **ninety (90) days** following the date of signature below and expire at midnight five (5) years from the effective date. Prior to expiration of this General Permit, the Department must make a determination if it is to be renewed, and, if so, must commence renewal proceedings. If this General Permit is to be renewed, it must remain in force until the Department takes final action on the renewal. [*Maine Administrative Procedure Act*, 5 M.R.S. § 10002, *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 C.M.R. 2(21)(A) (last amended October 19, 2015), and *General Permits for Certain Wastewater Discharges*, 06-096 C.M.R. 529(3)(c) (last amended June 27, 2007)]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

DONE AND DATED AT AUGUSTA, MAINE, THIS 7th DAY OF December, 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: /s/ Michael Kuhns for
PAUL MERCER, Commissioner

Date of Public Notice March 14, 2016.

Date filed with Board of Environmental Protection December 8, 2016

This Order prepared by Bill Hinkel/Gregg Wood, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A. AUTHORITY

A permit is required for the direct or indirect discharge of pollutants to waters of the State and United States. *Waste discharge licenses*, 38 M.R.S. § 413(1) and *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, *et seq*. The Department is authorized by the USEPA to administer the NPDES permit program in Maine. The Department may issue a general permit authorizing the discharge of certain pollutants from multiple individual discharge sources and locations which all have the same type of discharges and which involve situations where the Department determines there is a relatively low risk for significant environmental impact. 06-096 C.M.R. 529. The Department has determined that discharges resulting from stormwater discharge associated with industrial activities located within the geographic area of coverage and that conform to the applicability and coverage standards established herein may be authorized by a general permit.

B. DEFINITIONS

In addition to the definitions found in *Definitions in the Waste Discharge Permitting Program*, 06-096 C.M.R. 520 (effective January 12, 2001) and in the waste discharge program and water classification laws, the following terms have the following meanings when used in this General Permit.

1. **Co-located Industrial Activities** – any industrial activities, excluding your primary industrial activity(ies), located on-site that are defined by the stormwater regulations at 06-096 CMR 521 §9(b)(14)(i) through (x) and 06-096 CMR 521 §9(b)(14)(xi). An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the stormwater regulations or identified by the SIC code list in Attachment A of this permit or your primary industrial activity does not meet the description of a category of industrial activity covered by the stormwater regulations or identified by the SIC code list in Attachment A of this permit.

2. **Corrective Action**. "Corrective action" means any action taken, or required to be taken, to (1) repair, modify, or replace any stormwater control used at the site; (2) clean up and dispose of spills, releases, or other deposits found on the site; and (3) remedy a violation of this General Permit.

3. **Discharge Point (Outfall).** – for the purposs of this permit the location where collected and concentrated stormwater flows are discharged from the facility such that the first receiving waterbody into which the discharge flows, either directly or through a separate storm sewer system, is a water of the State.

4. **Impaired Waters.** "Impaired Waters" means waters identified by the Department as not meeting an applicable water quality standard, and require development of a total maximum daily load (TMDL) (pursuant to Section 303(d) of the CWA), or are addressed by a USEPA-approved or established TMDL, or are covered by pollution controls requirements that meet the requirements of 40 CFR 130.7(b)(1). For discharges that enter a separate storm sewer system prior to discharge, the first water of the State to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

SPECIAL CONDITIONS

B. DEFINITIONS (cont'd)

5. **Industrial Activity.** "Industrial Activity" means the 10 categories of industrial activities included in the definition of "stormwater discharges associated with industrial activity" as defined in 06-096 C.M.R. 521(9)(b)(14)(i) through (x) and 06-096 C.M.R. 521(9)(b)(14)(xi).

6. **Municipal Separate Storm Sewer System ("MS4").** "Municipal Separate Storm Sewer System" or "MS4" means conveyances for stormwater, including, but not limited to, roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, human-made channels or storm drains (other than publicly owned treatment works and combined sewers) owned or operated by any municipality, sewer or sewage district, Maine Department of Transportation, Maine Turnpike Authority, State agency or Federal agency or other public entity that ultimately discharges directly to waters of the State other than ground water.

7. NEG – means National Effluent Guideline.

8. **No Exposure.** "No exposure" means that all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. See 40 CFR 122.26(g).

9. **Notice of Intent ("NOI").** "Notice of Intent" or "NOI" means a notification of intent to seek coverage under this General Permit made by the applicant to the Department on a form provided by the Department.

11. **Notice of Termination ("NOT").** "Notice of Termination" or "NOT" means a notification to end coverage under this General Permit on a form provided by the Department.

12. **Primary Industrial Activity** – Is the activity in which a facility is primarily engage in that meets the definition of Industrial Activity of these definitions. For a facility where therte is more than one activity or operation covered by a SIC code in Attachment A, it is recommended that the primary industrial determination be based on the value of receipts or revenues related to the operation in question or, if such information is not available for a particular facility, the number of employees or production rate for each operation may be compared. The operation that generates the most revenue or employs the most personnel is the operation in which the facility is primarily engaged. In situations where the vast majority of on-site activity falls within one SIC code, that activity may be the primary industrial activity.]

13. **Process Waste Water.** Means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, by product or waste product.

14. **Qualifying Storm Event.** "Qualifying Storm Event" means precipitation or ice/snow melt waters that produce a measurable discharge of 0.1 inch or more in a 24-hour period at an outfall and occurs at least 72 hours from a previous qualifying storm event.

SPECIAL CONDITIONS

B. DEFINITIONS (cont'd)

15. **Representative Outfalls.** "Representative Outfalls" means two or more outfalls within a single drainage area that are anticipated to discharge substantially similar pollutants resulting from substantially similar industrial activities, materials or practices. If the facility contains representative outfalls, the permittee may conduct monitoring of one of the outfalls during a given sampling period provided that subsequent samples are taken from a different outfall within the representative outfalls' drainage area. The permittee will not be required to monitor more than one representative outfall within a designated drainage area per monitoring event. For this to be permissible, the SWPPP must include the permittee's narrative and include the following: locations of the outfalls and associated drainage area; why the outfalls are expected to discharge substantially identical effluents; and, estimates of the size of the drainage area (in square feet) for each outfall(s).

16. **Spill.** "Spill" means the release of a hazardous or toxic substance from its container or containment.

17. **Stormwater.** "Stormwater" means precipitation including runoff from rain, snow melt or ice melt that flows across the surface as sheet flow, shallow concentrated flow or in drainage ways. "Stormwater" means the same as "storm water".

18. **Stormwater Discharge Associated with Industrial Activity.** "Stormwater Discharge Associated with Industrial Activity" means the discharge from any point source which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing, or raw materials storage areas at an industrial facility. The term does not include discharges from facilities or activities excluded from the MEPDES program under 38 M.R.S. § 413. For the categories of industries identified at 06-096 C.M.R. 521(9)(b)(14)(i) through (x) and 06-096 C.M.R. 521(9)(b)(14)(xi), the term includes, but is not limited to, stormwater discharges from industrial facility yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters; sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and final products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater. For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product. The term excludes areas located on facility lands separate from the facility's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with stormwater drained from the above described areas. Industrial facilities include those that are federally, State, or municipally owned or operated that meet the description of the facilities listed in 06-096 C.M.R. 521(9)(b)(14). The term also includes those facilities designated under the provisions of 06-096 C.M.R. 521(a)(1)(v).

19. **Watershed Management Plan.** "Watershed Management Plan" means a plan, subject to Department review and approval, to address stormwater discharges to an impaired water body. An acceptable plan capable of providing structural or operational best management practices to prevent discharges of pollutants that would cause or contribute to impairment of the water body.

SPECIAL CONDITIONS

C. APPLICABILITY AND ELIGIBILITY

To be eligible to discharge under this General Permit, an applicant must (1) have an allowable stormwater discharge, 2) an allowable non-stormwater discharge associated with industrial activity from the primary industrial activity, provided the primary industrial activity is included in Attachment A of this General Permit, or (3) be notified by the Department that you are eligible for coverage under Sector AD of this General Permit. Stormwater that is conveyed to a treatment facility regulated by the Department or the USEPA for treatment, is not a discharge for which a waste discharge permit is required pursuant to 38 M.R.S. § 413(1).

1. **Area of coverage.** The geographic area covered by this General Permit is the entire State of Maine. Subject to all terms and conditions specified herein, this General Permit authorizes the discharge of stormwater associated with industrial activity to Class GPA, tributaries to Class GPA, Classes AA, A, B, and C, Classes SA, SB, and SC, and those waters classified as such and having drainage areas of less than ten square miles.

2. **Allowable non-stormwater discharges.** The following allowable non-stormwater discharges may be covered by this General Permit provided that the discharge, either alone or in conjunction with other discharges, do not cause or contribute to a violation of an applicable water quality standard. The use of best management practices to minimize the contribution of pollutants from these discharges and the location(s) to where each source is anticipated to be discharged must be documented in the Storm Water Pollution Prevention Plan (SWPPP).[1]

    a. Discharges from emergency and unplanned fire-fighting activities;
    b. Fire hydrant flushings, provided the discharge does not cause or contribute to a violation of water quality standards as determined by the Department and the activity is documented in the SWPPP;
    c. Potable water, including water line flushings, provided they do not contribute to a violation of water quality standards as determined by the Department and the activity documented in the SWPPP;
    d. Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
    e. Irrigation drainage;
    f. Landscape watering, provided any pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
    g. Routine external building washdown / power wash water that does use detergents or hazardous cleaning products (e.g. those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
    h. Uncontaminated ground water and springs;
    i. Uncontaminated utility vault dewatering;
    j. Water from building foundations or footings that is not contaminated by contact with process materials;
    k. Incidental mist from cooling towers that collects on rooftops or adjacent portions of a facility, but not intentional discharge from cooling towers (e.g. "piped" cooling tower blowdown; drains.

1 The Department reserves the right to exclude non-stormwater discharges on a case-by-case basis if the permittee cannot objectively demonstrate to the Department's satisfaction that the discharge will not violate an applicable water quality standard.

SPECIAL CONDITIONS

C. APPLICABILITY AND ELIGIBILITY (cont'd)

l. Incidental water that does not contain detergent draining from vehicles leaving an on-site rinse station, provided the waters from the rinse station itself are properly managed through best management practices addressed in the SWPPP; and

m. Incidental quantities of condensed steam that do not contributing to a violation of water quality standards (e.g. steam trap condensate).

n. Wash waters from cleaning roads, parking lots, sidewalks and other paved surfaces, provided no detergents or hazardous cleaning products are used (e.g. bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonlphenols) 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, unless residues are first cleaned up using dry clean up methods (e.g. applying absorbent materials and sweeping, using hydrophobic mops/rags) and one has implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g. filtration, detention, settlement).

o. The washing of new or used vehicles or equipment is allowed with the following prohibitions and recommended best management practices:

i. Engine, undercarriage and transmission washing is prohibited. Cleaning operations should minimize the detachment of paint residues, heavy metals or any other potentially hazardous materials from surfaces. .

ii .Vehicle and equipment washing should occur, where possible, on an impermeable surface (i.e., concrete, asphalt, plastic or other) and utilize an area that extends to a minimum of four (4) feet on all sides of the vehicle or equipment so that wash water and overspray falls initially on the impermeable surface. From the impermeable surface, wash water should then be directed to a vegetated area.

iii. Vehicles and equipment should not be washed near uncovered repair areas or chemical storage areas such that chemicals can be transported in wash water runoff. All wash water runoff should drain away from a shop repair or chemical storage area.

iv Wash water from cleaning the interior of truck trailers and other large commodity carrying containers must be collected and discharged to a POTW or treated in a closed-loop, wash water recycling system.

p. Non-stormwater discharges authorized in Sectors A through AD of this General Permit.

SPECIAL CONDITIONS

C. APPLICABILITY AND ELIGIBILITY (cont'd)

3. **Exclusions and restrictions.** The following exclusions and restrictions for coverage under this General Permit apply.

   a. Stormwater discharges that are comingled with other sources authorized by another MEPDES permit if the co-mingled waters cannot be separately characterized;
   b. Stormwater discharges which the Department has determined are or would cause or contribute to a violation of an applicable water quality standard. This exclusion does not apply if the applicant demonstrates participation and compliance with a Watershed Management Plan; and
   c. Stormwater discharges associated with construction activity disturbing one (1) acre or more, unless in conjunction with mining activities or certain oil and gas extraction activities as specified in Sectors G, H, I, and J of this General Permit.

4. **Conditional exclusion for no exposure.** Discharges composed entirely of stormwater are not stormwater discharges associated with industrial activity if there is no exposure of industrial materials and activities to rain, snow, snowmelt and/or runoff, and the discharger satisfies the conditions in this section. To qualify for exclusion, the permittee must submit the Department's No Exposure Certification Form DEPLW0968.

   a. Qualification requirements. To qualify for this exclusion, the permittee covered by this General Permit that becomes eligible for a no exposure exclusion must:

      1. Provide a storm resistant shelter to protect industrial materials and activities from exposure to rain, snow, snow melt, and runoff;
      2. Complete and sign a certification that there are no discharges of stormwater contaminated by exposure to industrial materials and activities from the entire facility;
      3. Submit the signed certification to the Department once every five years;
      4. Allow the Department to inspect the facility to determine compliance with the no exposure conditions;
      5. For facilities that discharge through an MS4, upon request, submit a copy of the certification of no exposure to the MS4 operator, as well as allow inspection and public reporting by the MS4 operator; and
      6. Notify the Department of changes in facility ownership in accordance with Special Condition D.7, *Changed conditions*.

   b. Shelter exclusions. To qualify for this exclusion, storm resistant shelter is not required for:

      1. Drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated, do not leak or do not otherwise contribute pollutants to stormwater;
      2. Adequately maintained vehicles used in material handling; and
      3. Products that would not contribute pollutants to stormwater.

SPECIAL CONDITIONS

C. APPLICABILITY AND ELIGIBILITY (cont'd)

c. Changed circumstances. If circumstances change and industrial materials or activities become exposed to rain, snow, snow melt, and/or runoff, the conditions for this exclusion no longer apply. In such cases, the discharge becomes subject to enforcement for un-permitted discharge. Any conditionally exempt discharger who anticipates changes in circumstances should apply for and obtain permit authorization prior to the change of circumstances.

5. **Co-located facilities.** Where more than one sector of industrial activity applies to a single facility, the permittee must comply with the requirements of all applicable sectors. In the case of a difference between numeric effluent limitations for a facility subject to multiple sectors, compliance is required with the more stringent limitation.

6. **Stormwater discharges to impaired waters.** Coverage under this General Permit for stormwater discharges associated with an industrial activity to impaired waters may only be approved if the Department determines that the discharge(s) does not cause or contribute to the failure of the water body to meet the standards of classification. The Department will determine whether a facility discharges to an impaired water based on receiving water information provided by the applicant on the NOI form. In making this determination, the entity seeking coverage must provide the Department with clear and compelling evidence that the discharge does not contain pollutants in concentrations or quantity that would cause or contribute to the impairment condition. Evidence may consist of, but is not necessarily limited to, effluent analytical data for the pollutants of concern, documentation from the facility's SWPPP that there is no exposure of all sources of the pollutants of concern at the facility and / or that treatment devices are installed to eliminate or sufficiently minimize the pollutants of concern from stormwater runoff. The Department reserves the right to require additional monitoring on a case-by-case basis to ensure stormwater discharges to impaired waters comply with applicable water quality laws and this General Permit.

D. NOTIFICATION, DECISIONS AND EFFECTIVE TERM OF COVERAGE

1. **Notice of Intent (NOI).** The owner or operator of a facility discharging stormwater associated with industrial activity, as an applicant, and seeking coverage under this General Permit must submit a completed NOI to the Department for review and approval within **sixty (60) days** of the date the permit is signed by the Commissioner of the Department. NOI forms must be mailed or hand-delivered to:

Department of Environmental Protection
Bureau of Water Quality
Division of Water Quality Management
17 State House Station
Augusta, ME 04333-0017

The Department reserves the right to request additional information from the applicant based on review of the NOI. Permitting information, forms, and Augusta office directions may be obtained by contacting the Department's Waste Discharge Permitting Unit at 1-207-287-7688. Additionally, the General Permit, associated fact sheet and other forms are available for review and download at: http://www.maine.gov/dep/water/wd/multisector/index.html.

SPECIAL CONDITIONS

D. NOTIFICATION, DECISIONS AND EFFECTIVE TERM OF COVERAGE (cont'd)

2. **NOI information**. A complete NOI must contain the following information.

   a. The legal name, mailing address, e-mail address and telephone number of the owner and operator (*i.e.*, applicant) of the facility;
   b. The name and street address of the facility;
   c. A topographic or similar type map extending approximately one mile beyond the boundaries of the facility generating stormwater and the geographic coordinates (latitude and longitude) of the facility's main entrance or office, if known;
   d. The name(s) or descriptions of all known water bodies into which the stormwater discharge is conveyed, or the MS4 into which the discharge(s) is connected;
   e. The Standard Industrial Code(s) (SIC) or NAICS Code(s) and identification of the Sectors of the General Permit that apply to the industrial activity conducted at the facility;
   f. A copy of a signed participating landowner agreement associated with a Watershed Management Plan in which the facility is participating , if applicable;
   g. A statement that a complete and up-to-date SWPPP[2] is available;
   h. Evidence of title, right or interest (TRI) in all of the property that is proposed for development or use in accordance with 06-096 C.M.R. 2(11)(D);
   i. For corporations, a *Certificate of Good Standing* or a statement signed by a corporate officer affirming that the corporation is in good standing; and
   j. The signature of an authorized person in accordance with *Applications for Waste Discharge Licenses*, 06-096 C.M.R. 521(5) (effective January 12, 2001).

   Failure to submit all required NOI information may result in finding the NOI incomplete for processing and may delay processing or result in denial of the NOI.

3. **Decisions.**

   a. **Effective date of coverage**. The Department must approve or deny each NOI submitted for coverage under this General Permit: 1) within 31 calendar days of receipt of a complete NOI if discharging to waters not listed as impaired waters; 2) within 61 calendar days of receipt of a complete NOI if discharging to impaired waters; or 3) on the effective date of this General Permit, whichever is later. If the Department does not notify the applicant within the specified timeframe, the NOI is automatically approved and becomes effective as if signed by the Commissioner in accordance with 06-096 C.M.R. 2(19)(E). In the event coverage is denied, the Department must notify the applicant of the reason(s) for denial. Denial of coverage under this General Permit is not appealable to the Board of Environmental Protection and is not final agency action. The approval of coverage under this General Permit is appealable in accordance with 06-096 C.M.R. 2(24)(B).

2 For purposes of this section, complete and up-to-date SWPPP means a SWPPP that contains all of the components required by this General Permit.

SPECIAL CONDITIONS

E. NOTIFICATION, DECISIONS AND EFFECTIVE TERM OF COVERAGE (cont'd)

b. **Individual permit coverage**. The Department may require, or an interested party may request for consideration, that a facility covered under this General Permit obtain an individual MEPDES permit for any of the reasons specified at 06-096 C.M.R. 529(2)(b)(3)(i)(A-G). The owner or operator of a facility eligible for coverage under this General Permit may request to be excluded from this General Permit and instead apply for an individual MEPDES permit as provided at 06-096 C.M.R. 529(2)(b)(3)(iii).

4. **Effective term of coverage.** The term of this General Permit is five years. Coverage under this General Permit will be continued from year to year provided payment of an applicable annual fee pursuant to *Maine Environmental Protection Fund*, 38 M.R.S. § 353-B, and that there are no significant changes in the facility or its operation as described in the NOI.

   Prior to expiration of this General Permit, the Department must make a determination if it is to be renewed, and, if so, will commence renewal proceedings. Not less than 6 months prior to expiration of this General Permit, the Department must provide notice of its intent to renew or not renew the General Permit. If the General Permit is to be renewed, it will remain in force until the Department takes final action on the renewal. Upon reissuance of a renewal General Permit, persons wishing to continue coverage must apply for coverage under the renewal General Permit not later than 30 days following the issuance date of the new General Permit.

5. **Transfer of ownership.** In the event that the ownership of a facility is transferred to a new owner or operator, coverage under this General Permit may be transferred to the new owner or operator notifying the Department in writing within two weeks of the transfer. The notice must include documentation that the new owner or operator has: 1) a *Certificate of Good Standing* or a statement signed by a corporate officer affirming that the corporation is in good standing; 2) title, right or interest in the facility; 3) the technical and financial capacity to comply with this General Permit; and 4) a SWPPP that meets all requirements of this General Permit and that is certified in accordance with the signatory requirements of 06-096 C.M.R. 521(5). If increases or significant changes in the discharge(s) are proposed, a new NOI must be filed.

6. **Changed conditions**. In the event a permittee covered by this General Permit proposes to make significant changes in the nature or scope of the operations of facilities described in a NOI previously approved, the permittee must notify the Department as soon as becoming aware of and before implementing such changes. Based on its evaluation of the proposed changes, the Department may require the submittal of a new NOI or that an individual permit be obtained.

SPECIAL CONDITIONS

D. NOTIFICATION, DECISIONS AND EFFECTIVE TERM OF COVERAGE (cont'd)

7. **Notice of termination.** A permittee covered under this General Permit that has 1) ceased operations and has eliminated the potential for discharges of stormwater associated with industrial activity; or 2) has obtained coverage for the discharge covered under this General Permit through another MEPDES permit must, within 30 days of either condition, submit a request for permit termination to the Department by submitting a complete Department Form DEPLW0967. The Department will notify an entity that requested permit termination of the Department's decision to terminate coverage under this General Permit, including, but not limited to, identification of additional requirements necessary to make the permittee eligible for permit termination. In accordance with Standard Condition A.5, *Permit actions*, the filing of a request for permit termination does not eliminate any General Permit condition, including payment of an annual waste discharge license fee pursuant to Standard Condition A.11, *Other laws*, and *Annual waste discharge license fees*, 38 M.R.S. § 353-B.

E. AUTHORIZED DISCHARGES

A permittee covered under this General Permit is authorized to discharge: 1) only in accordance with the permittee's Notice of Intent; and 2) only in accordance with the terms and conditions of this General Permit. Discharges of pollutants from any other point source are not authorized under this General Permit, and must be reported in accordance with Standard Condition D(1)(f), *Twenty-four hour reporting*, of *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits*, revised July 1, 2002, attached to this General Permit. Any non-stormwater discharges not explicitly authorized pursuant to Special Condition C.2 of this General Permit are not covered and must be eliminated, or in the alternative, covered by a separate MEPDES permit.

F. NARRATIVE EFFLUENT LIMITATIONS

In addition to compliance with the numeric and non-numeric technology-based effluent established in this General Permit, the permittee must comply with the following narrative effluent limitations.

1. An entity covered under this General Permit must not discharge, at any time, effluent that contains a visible oil sheen, foam or floating solids, which would impair the uses designated for the classification of the receiving waters.

2. An entity covered under this General Permit must not discharge, at any time, effluent that contains materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the uses designated for the classification of the receiving waters.

3. An entity covered under this General Permit must not discharge, at any time, effluent that imparts color, taste, turbidity, toxicity, radioactivity or other properties which cause those waters to be unsuitable for the designated uses and characteristics ascribed to their classification.

4. An entity covered under this General Permit must not discharge effluent that lowers the quality of any classified body of water below such classification, or lowers the existing quality of any body of water if the existing quality is higher than the classification

SPECIAL CONDIONS

G. CONTROL MEASURES

The permittee must select, design, install and implement control measures, adhering to good engineering practices and manufacturer's specifications, to minimize pollutant discharges from all potential sources. The control measure(s) selected must be capable of meeting 1) the non-numeric technology-based effluent limitations established in Special Condition H of this General Permit; 2) the numeric limitations specified in Special Condition I of this General Permit; and 3) all applicable water quality standards, including the goals of approved total maximum daily load (TMDLs) and water quality-based effluent limitations where established. Where more than one standard exists for a specific pollutant, compliance with this General Permit and the control measure design must be based on the most stringent standard. In selecting control measures, the permittee must address the following design and selection considerations.

1. Preventing stormwater from coming into contact with polluting materials;
2. Using control measures in combination;
3. Assessing the type and quantity of pollutants, including their potential to impact receiving water quality;
4. Minimizing impervious areas at the facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) in accordance with State laws and regulations;
5. Attenuating flow using open vegetated swales and natural depressions;
6. Conserving and/or restoring riparian buffers; and
7. Using treatment interceptors (*e.g.*, swirl separators and sand filters).

H. NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS

The permittee must comply with the following non-numeric effluent limitations in addition to any non-numeric effluent limitations specified in Sectors A through AD of this General Permit.

1. **Minimize exposure.** The permittee must minimize the exposure of manufacturing, processing, and material storage areas (including, but not limited to, loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges. Unless impractical, the permittee must also:

    a. Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
    b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge;
    c. Clean up spills and leaks promptly using dry methods (*e.g.*, absorbents) to prevent the discharge of pollutants;

SPECIAL CONDITIONS

H. NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS (cont'd)

d. Properly dispose of materials used for spill or leak clean up to prevent used clean up materials from being a source of pollutants in stormwater;
e. Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;
f. Use spill/overflow protection equipment;
g. The washing of new or used vehicles or equipment is allowed with the following prohibitions and recommended best management practices:
    1. Engine, undercarriage and transmission washing is prohibited. Cleaning operations should minimize the detachment of paint residues, heavy metals or any other potentially hazardous materials from surfaces. Information on temporary berms and magnetic storm drain covers is attached to this guidance.
    2. Vehicle and equipment washing should occur, where possible, on an impermeable surface (i.e., concrete, asphalt, plastic or other) and utilize an area that extends to a minimum of four (4) feet on all sides of the vehicle or equipment so that wash water and overspray falls initially on the impermeable surface. From the impermeable surface, wash water should then be directed to a vegetated area. Information on temporary berms and magnetic storm drain covers and suppliers is attached to this guidance.
    3. Vehicles and equipment should not be washed near uncovered repair areas or chemical storage areas such that chemicals can be transported in wash water runoff. All wash water runoff should drain away from a shop repair or chemical storage area.
    4. Wash water from cleaning the interior of truck trailers and other large commodity carrying containers must be collected and discharged to a POTW or treated in a closed-loop, wash water recycling system.
h. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least quarterly for leaks.
i. locate industrial materials and activities inside or protecting them with storm resistant coverings where practical to do so.

2. **Good housekeeping.** The permittee must keep clean all exposed areas that are potential sources of pollutants. The permittee must perform good housekeeping measures in order to minimize pollutant discharges, including but not limited to, the following:

    a. Sweep or vacuum at regular intervals as a primary measure or, alternatively, wash down the area as a secondary measure and collect and/or treat, and properly dispose of the washdown water;
    b. Store materials in appropriate containers that are labeled to specify contents;
    c. Keep all dumpster lids closed when not in use, or provide secondary containment to ensure that discharges have a control. For dumpsters, waste bins and roll-off containers that do not have lids and could leak, ensure that discharges have a control (e.g. secondary containment, treatment). Dumpsters and roll-off containers should only be used to hold solid waste materials and never used to hold liquid wastes. This permit does not authorize any dry weather discharges from dumpsters or roll-off containers;

SPECIAL CONDITIONS

H. NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS (cont'd)

d. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged;
e. For facilities that handle pre-production plastic, implement best management practices to eliminate discharges of plastic in stormwater; and
f. Site and operate snow storage and disposal areas to prevent or minimize discharges of pollutants from snow maintenance activities.

3. **Maintenance.** The permittee must maintain all control measures that are used to achieve the effluent limits in this General Permit in effective operating condition, as well as all industrial equipment and systems, in order to minimize pollutant discharges. This includes:

   a. Performing and documenting inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in contamination of stormwater;
   b. Diligently maintaining non-structural control measures (*e.g.*, keep spill response supplies available, personnel appropriately trained);
   c. Inspecting and maintaining baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse; and
   d. Cleaning catch basins when the depth of sediment or debris reaches 2/3rds of the sump depth and keeping the sediment and debris surface at least six inches below the lowest outlet pipe or alternatively, establish a routine maintenance schedule such each catch basin is cleaned oat least nce per year.

4. **Spill prevention and response.** The permittee must minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. The permittee must conduct spill prevention and response measures, including but not limited to, the following:

   a. Plainly label containers 55 gallons or greater *(e.g.*, "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
   b. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas;
   c. Develop training on spill response procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
   d. Keep adequate and accessible spill kits on-site, located near areas where spills may occur or where a rapid response can be made; and
   e. Notify appropriate facility personnel when a leak, spill, or other release occurs.

5. **Erosion and sediment controls.** The permittee must minimize erosion by stabilizing exposed soils at the facility in order to minimize pollutant discharges and by placing flow velocity dissipation devices in stormwater swales and ditches at discharge locations, as necessary, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points. The permittee must also use structural and non-structural control measures, as necessary, to minimize the discharge of sediment.

SPECIAL CONDITIONS

H. NON-NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS (cont'd)

6. **Management of runoff**. The permittee must divert, infiltrate, reuse, contain, or otherwise manage stormwater runoff to minimize pollutants in the discharges.

7. **Salt storage piles or piles containing salt.** Unless otherwise authorized by variance pursuant to *Siting and Operation of Road Salt and Sand-Salt Storage Areas*, 06-096 C.M.R. 574 (effective December 3, 2001), the permittee must enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces, in order to minimize pollutant discharges. This includes preventing stormwater runoff from coming into contact with covered piles. The permittee must implement appropriate measures (*e.g.*, good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.

8. **Employee training.** Annually, the permittee must train all employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit (*e.g.*, inspectors, maintenance personnel), including all members of the facility's stormwater pollution prevention team. The permittee must ensure the following personnel understand the requirements of this permit and their specific responsibilities with respect to those requirements:

    a. Personnel who are responsible for the design, installation, maintenance, and/or repair of controls (including pollution prevention measures);
    b. Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges;
    c. Personnel who are responsible for conducting and documenting monitoring and inspections pursuant to this General Permit; and
    d. Personnel who are responsible for taking and documenting corrective actions pursuant to this General Permit.

    Personnel must be trained in at least the following if related to the scope of their job duties (*e.g.*, only personnel responsible for conducting inspections need to understand how to conduct inspections):

    e. An overview of what is in the SWPPP;
    f. Spill response procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases, good housekeeping, maintenance requirements, and material management practices;
    g. The location of all controls on the site required by this General Permit, and how they are to be maintained;
    h. The proper procedures to follow with respect to the General Permit's pollution prevention requirements; and
    i. When and how to conduct inspections, record applicable findings, and take corrective actions.

9. **Dust generation and vehicle tracking of industrial materials.** The permittee must utilize control measures to minimize generation of dust and off-site tracking of raw, final, or waste materials. Discharges of pollutants associated with an industrial activity as the result of off-site tracking are not authorized by this General Permit.

SPECIAL CONDITIONS

I. NUMERIC TECHNOLOGY-BASED EFFLUENT LIMITATIONS

A permittee covered under this General Permit engaging in the following regulated activities must comply with all numeric effluent limitations specified in the Sector applicable to the facility.

Regulated Activity	40 CFR Part/Subpart	Applicable Sector
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	A
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products	Part 418, Subpart A	C
Runoff from asphalt emulsion facilities	Part 443, Subpart A	D
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	E
Runoff from coal piles at any coal mine at which the extraction of coal is taking place	Part 434, Subpart A	H
Mine dewatering discharges at crushed stone (SIC 1422-1429), construction sand and gravel (SIC 1442), or industrial sand mining facilities (SIC 1446)	Part 436, Subparts B, C, or D	J
Runoff from hazardous waste landfills	Part 445, Subpart A	K
Runoff from non-hazardous waste landfills	Part 445, Subpart B	L
Runoff from coal storage piles at steam electric generating facilities	Part 423	O
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449	S

J. STORMWATER POLLUTION PREVENTION PLAN – GENERAL REQUIREMENTS

1. **Availability of SWPPP.** The permittee must prepare a SWPPP for the facility prior to submission of a NOI for authorization to discharge stormwater associated with industrial activity under this General Permit. If a permittee prepared a SWPPP for coverage under a previous version of this General Permit, the permittee must review and update the SWPPP to implement all provisions of this General Permit prior to submitting a NOI. Upon receiving authorization under this General Permit, a copy of the SWPPP must be available to appropriate facility staff, Department and USEPA staff, and the operator of an MS4 receiving discharges from the facility. The permittee must keep a copy of the SWPPP on-site at all times for reference and review.

2. **SWPPP preparation.** The SWPPP must be prepared in accordance with good engineering practices and to industry standards. The SWPPP may be developed by either a person on the facility's staff or a third party, but it must be developed by a "qualified person" and must be certified in accordance with the signatory requirements of 06-096 C.M.R. 521(5). A "qualified person" is a person knowledgeable in the principles and practices of industrial stormwater controls and pollution prevention, and possesses the education and ability to assess conditions at the industrial facility that could impact stormwater quality,

SPECIAL CONDITIONS

J. STORMWATER POLLUTION PREVENTION PLAN – GENERAL REQUIREMENTS (cont'd)

and the education and ability to assess the effectiveness of stormwater controls selected and installed to meet the requirements of the permit. A qualified person may include facility staff that is familiar with the facility's industrial activity and control measures necessary to reduce or eliminate the discharge of pollutants associated with the industrial activity.

3. **Amended SWPPP.** The permittee must amend the SWPPP within thirty (30) calendar days of completion of any of the following:

   a. A change in design, construction, operation, or maintenance at the facility that may have a significant effect on the discharge or potential for discharge of pollutants from the facility including the addition or reduction of industrial activity;
   b. Monitoring, inspections, or investigations by the permittee or by local, State, or Federal officials which determine the SWPPP is ineffective in eliminating or significantly minimizing the intended pollutants;
   c. A discharge under this General Permit that is determined by Department to cause or have the reasonable potential to cause or contribute to the violation of an applicable water quality standard.

K. STORMWATER POLLUTION PREVENTION PLAN – GENERAL CONTENTS

This subsection describes the minimum requirements that must be addressed or contained within an acceptable SWPPP.

1. **Stormwater Pollution Prevention Team.** The SWPPP must identify the individual(s) (by name or title) who comprise the facility's Stormwater Pollution Prevention Team. The Stormwater Pollution Prevention Team is responsible for assisting the facility/plant manager in developing, implementing, maintaining and revising the facility's SWPPP. Responsibilities of each team member must be listed.

2. **Nature of activities.** The SWPPP must provide a description of the nature of the industrial activities at the facility.

3. **Maps.** The SWPPP must contain a general location map with sufficient detail to identify the location of the facility and all receiving waters for all stormwater discharges. In addition to any Sector-specific map requirements, a site map (or multiple as necessary) depicting the following features must also be included with the SWPPP.

   a. Boundaries of the property and the size of the property in acres;
   b. Location and extent of significant structures and impervious surfaces;
   c. Directions of stormwater flow (use arrows);
   d. Locations of all stormwater control measures;
   e. Locations of all receiving waters, including wetlands, in the immediate vicinity of the facility;
   f. Locations of all stormwater conveyances including catch basins, ditches, pipes, and swales;
   g. Locations of potential pollutant sources;

SPECIAL CONDITIONS

K. STORMWATER POLLUTION PREVENTION PLAN – GENERAL CONTENTS (cont'd)

h. The location of all above ground wastewater or process water containment tanks;
i. For the purposes of the site map, identify areas of frequent spills (greater than three occurrences per year) and large spills (greater than 10 gallons) that have occurred in the last three years. All locations of fuel frequent/large spills must be documented within the SWPPP or applicable Spill Prevention Control & Counter Measure (SPCC) Plan;
j. Locations of all stormwater monitoring points;
k. Locations of stormwater inlets and outfalls, with a unique identification code for each outfall (*e.g.*, Outfall 001, 002) and an approximate outline of the areas draining to each outfall;
l. Locations of the following activities where such activities are exposed to precipitation:
   - fueling stations;
   - vehicle and equipment maintenance and/or cleaning areas;
   - loading/unloading areas;
   - locations used for the treatment, storage, or disposal of wastes;
   - liquid storage tanks;
   - processing and storage areas;
   - immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
   - transfer areas for substances in bulk;
   - machinery; and
   - locations and sources of run-on to the site from adjacent property that contains significant quantities of pollutants.

4. **Summary of potential pollutant sources.** The SWPPP must provide a description of the areas at the facility where industrial materials or activities are exposed to stormwater or from which allowable non-stormwater discharges originate. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. Structures located in areas of industrial activity are potential sources of pollutants.

   For each separate area identified, the description must include the following.

   a. Activities in the area. A list of the industrial activities exposed to stormwater and the predicted direction of flow of stormwater from each activity and outfall.

   b. Pollutants. A list of pollutants associated with each identified activity, which could be exposed to rainfall or snowmelt and could be discharged from the facility. The pollutant list must include all significant materials that have been handled, treated, stored or disposed, and that have been exposed to stormwater in the three years prior to the date you prepare or amend your SWPPP.

SPECIAL CONDITIONS

K. STORMWATER POLLUTION PREVENTION PLAN – GENERAL CONTENTS (cont'd)

c. Spills and leaks. The permittee must document where potential spills and leaks could occur that could contribute pollutants to stormwater discharges, and the corresponding outfall(s) that would be affected by such spills and leaks. The permittee must document all frequent or large spills and leaks of oil or toxic or hazardous substances that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date the SWPPP was prepared or last amended. The permittee must document the circumstances leading to the release and actions taken in response to the release and the measures taken to prevent the recurrence of such releases.

d. Wastewater or process water containment. Any stationary above ground tank, container, or container storage area used for the storage of wastewater or process water that has the potential to discharge to surface waters or a stormwater conveyance during a malfunction must be held in a secondary containment device capable of containing 100% of the contents of the tank, plus precipitation. The containment devices must meet all Federal and State rules for primary and secondary containment. Secondary containment requirements are waived if the tank is equipped with a level sensor and alarm to signal an overflow or leak and the facility has a contingency plan in place to remove excess liquid to a second containment structure or off site treatment facility to prevent exposure to stormwater. The containment structures must be visually inspected for signs of deterioration at least once per year. The contingency plan and tank inspection procedure must be documented in the SWPPP.

e. Non-stormwater discharges – The permittee must document that it has evaluated its site for the presence non-stormwater discharges not listed in Section C(2). Documentation must include the following.

1. The date of the evaluation;
2. A description of the evaluation criteria used;
3. A list of the outfalls or onsite drainage points that were directly observed during the evaluation; and
4. The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a separate MEPDES permit was obtained.

f. Salt storage. The permittee must document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

g. Sampling data. Existing dischargers must summarize all stormwater discharge sampling data collected at the facility during the previous permit term. The summary must include a narrative description (and may include data tables/figures) that adequately summarizes the collected sampling data to support identification of potential pollution sources at the facility. New dischargers and new sources must provide a summary of any available stormwater runoff data they may have.

h. Method of on-site storage or disposal. A storage practice or disposal method must be detailed for all raw materials, intermediate materials, final products and waste materials. Waste materials must be handled in accordance with applicable federal and State waste management rules and regulations.

SPECIAL CONDITIONS

K. STORMWATER POLLUTION PREVENTION PLAN – GENERAL CONTENTS (cont'd)

5. **Procedures for conducting monitoring.** The SWPPP must document the procedures and frequencies for conducting the three types of analytical monitoring (Benchmark, Numeric, and Impaired Waters) and Visual Monitoring where applicable. SWPPP documentation must include the following.

   a. Location of sample collection (outfall designation);
   b. Sampling parameters and sampling frequency for each parameter including the benchmark or limit associated with that parameter; and
   c. Monitoring schedule including monitoring exceptions, adverse weather conditions, and waivers.

L. STORMWATER POLLUTION PREVENTION PLAN – CONTROL MEASURES

This condition contains SWPPP requirements for control measures to meet effluent limitations. The permittee must review all control measures at least quarterly and complete corrective action(s) to modify any control measures that are not achieving the intended effect of minimizing pollutant discharges. The SWPPP must document the type and location of all control measures selected to ensure compliance with technology-based and water quality-based effluent limitations.

1. **Best management practices (BMPs) considerations.** Best management practices must be applied to all areas described in the summary of potential pollutant sources documented in the SWPPP. The SWPPP must include an implementation schedule for all proposed BMPs. The permittee must consider, at a minimum, the following in selection of BMPs:

   a. The quantity and nature of the pollutants, and their potential to impact the water quality of receiving waters;
   b. Preventing stormwater from coming into contact with polluting materials;
   c. Using control measures in combination to minimize pollutants in stormwater discharges;
   d. Opportunities to offset stormwater and temperature impacts from impervious areas on dry weather flows and low flow situations to streams;
   e. Minimizing impervious areas at the facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches);
   f. Attenuating flow using open vegetated swales and natural depressions; and
   g. Use of treatment interceptors (*e.g.*, swirl separators, sand filters, catch basin inserts/filters) to minimize the discharge of pollutants.

2. **Non-structural control measures** The permittee must comply with the non-structural control measures in Special Condition H, *Non-Numeric Technology Based Effluent Limitations*, of this permit.

SPECIAL CONDITIONS

M. STORMWATER POLLUTION PREVENTION PLAN – RECORDS

The permittee must keep the following inspection, monitoring and certification records on site with the SWPPP.

1. A copy of the NOI submitted to the Department for coverage under this General Permit;

2. A copy of the NOI approval issued by the Department for coverage under this General Permit;

3. A paper or electronic copy of this General Permit and any Sectors that are applicable to the facility;

4. Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules;

5. All inspection reports and monitoring data required by this General Permit, including any required sector-specific reports and monitoring data;

6. Documentation of monitoring exceedances and the permittee's response;

7. A description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (*e.g.*, adverse weather or it was impracticable to collect samples within the first 60 minutes of a measurable storm event);

8. Dates and descriptions of all spills and leaks that must be documented by this General Permit;

9. Corrective Action Reports and summary of completed actions taken at the site, including event(s) and date(s) when problems were discovered and modifications occurred; and

10. Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if the permittee discharges directly to impaired waters, and that such pollutants were not detected in the discharge or were solely attributable to natural background sources.

11. A copy of records for all employee training as required by Section H(8) of this permit.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS

1. Monitoring Generally.

a. **Monitoring categories and methods.** This General Permit contains the following types of monitoring: routine facility inspections; visual monitoring; Sector-specific benchmark monitoring; numeric technology-based effluent limitation monitoring; and water quality-based impaired waters monitoring. The monitoring requirements and numeric limitations applicable to a facility depend on the types of industrial activities conducted and the receiving water quality. Samples and measurements taken for the purpose of monitoring must be representative of the volume and nature of the discharge over the sampling and reporting period. The permittee must conduct sampling and analysis in accordance with a) methods approved by 40 CFR Part 136; b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136; or c) as otherwise specified by the Department. Samples that are sent out for analysis must be analyzed by a laboratory certified by the State of Maine's Department of Health and Human Services for wastewater. Samples that are sent to a publicly owned treatment works licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 C.M.R. 263 (effective April 1, 2010). If the permittee monitors any pollutant more frequently than required by this General Permit using test procedures approved under 40 CFR Part 136 or as specified in this General Permit, the results of this monitoring must be maintained with the SWPPP.

Monitoring prescribed in this subsection is not required for entities covered under this General Permit that are participating in a Watershed Management Plan. The Long Creek Watershed Management Plan in the municipalities of South Portland, Portland, Westbrook and Scarborough is a Department Approved Watershed Management Plan.

b. **Monitoring timing.** Stormwater samples should, whenever practicable, be collected within the first sixty (60) minutes of the beginning of a discharge during a qualifying storm event. If a sample cannot be collected within the first 60 minutes, the permittee must document with inspection forms the reason(s) or circumstance(s) why it was not practicable to obtain a timely sample. Samples collected more than 2.25 hours following the beginning of a discharge during a qualifying storm event are not acceptable and will be rejected by the Department.

In the case of snowmelt, samples must be collected during a period with a measurable discharge from the representative outfall.

If a stormwater discharge event associated with a qualifying storm event does not occur during normal operating business hours an entire calendar quarter, the permittee must document in the SWPPP that there was no discharge to sample. Monitoring requirements under these circumstances are waived.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

2. **Routine Facility Inspections.**

a. **Applicability.** All permittees covered under this General Permit must conduct routine facility inspections of areas of the facility covered by the requirements in this General Permit, including, but not limited to, the following:

1. Areas where industrial materials or activities are exposed to stormwater;
2. Areas identified in the SWPPP and those that are potential pollutant sources;
3. Areas where spills and leaks have occurred in the past three years;
4. Discharge points; and
5. Control measures used to comply with the effluent limits contained in this General Permit.

b. **Minimum inspection requirements.** Routine facility inspections must be conducted once per calendar quarter each year the permittee is covered under this General Permit. These inspections must be equally spaced with a minimum of sixty (60) days between inspections. At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring. Alternatively, a permittee with multiple outfalls may inspect one outfall from each sector provided that it is representative of the entire sector. Representative outfalls must be rotated and all outfalls must be inspected over the course of the five-year permit cycle. The permittee must document findings from each routine facility inspection in a signed, certified report maintained with the SWPPP including, but not limited to, the following:

1. The inspection date and time;
2. The name(s) and signature(s) of the inspector(s);
3. Weather information (precipitation in the previous 48 hour period of time);

4. All observations relating to the implementation of control measures at the facility, including:
   a. A description of any discharges occurring at the time of the inspection;
   b. Any new discharges from and/or pollutants at the site;
   c. Any evidence of, or the potential for, pollutants entering the drainage system;
   d. Observations regarding the physical condition of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and/or the receiving water;
5. Any control measures needing maintenance, repairs, or replacement;
6. Any additional control measures needed to comply with the General Permit requirements; and
7. Any incidents of noncompliance.

Visual monitoring requirements required by this General Permit may be satisfied at the same time a routine facility inspection is conducted provided all components of both monitoring types are included in the report.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

c. **Exception for inactive and unstaffed sites.** The requirement to conduct facility inspections on a routine basis does not apply at a facility that is inactive and unstaffed (temporarily or permanently closed), provided that there are no industrial materials or activities exposed to stormwater. Such a facility is only required to conduct an annual site inspection in accordance with the other requirements of this subsection. To invoke this exception, the permittee must maintain a signed and certified statement with the facility SWPPP stating that the site is inactive and unstaffed, and that there is no exposure to stormwater.

If circumstances change and industrial materials or activities become exposed to stormwater or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately begin complying with the applicable monitoring requirements as if it was in the first year of permit coverage.

3. **Visual Monitoring.**

a. **Applicability.** All permittees covered under this General Permit must conduct visual monitoring.

b. **Minimum monitoring requirements.** Visual monitoring must be conducted once per calendar quarter each year the permittee is covered under this General Permit. The permittee must collect a stormwater sample from each outfall or a representative outfall during a qualifying storm event and conduct a visual assessment of these samples. See section B(13) of this permit for documenting a representative outfall. These samples are not required to be collected in accordance with 40 CFR Part 136 procedures but must be collected in such a manner that the samples are representative of the stormwater discharge. The sample must be collected in a clean, colorless glass or plastic container, and examined in a well-lit area. The visual assessment must be performed and documented in accordance with standard operating procedures outlined in document DEPLW0768, Visual Monitoring of Stormwater Discharges Associated with Industrial Activity, hereby incorporated into this General Permit.

c. **Monitoring parameters.** The permittee must visually inspect or observe the sample for the following water quality characteristics:

1. Color;
2. Odor;
3. Clarity (diminished);
4. Floating solids;
5. Settled solids;
6. Suspended solids;
7. Foam;
8. Oil sheen; and
9. Other obvious indicators of stormwater pollution

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

d. **Exception for inactive and unstaffed sites.** The requirement for visual monitoring does not apply at a facility that is inactive and unstaffed, provided that there are no industrial materials or activities exposed to stormwater. To invoke this exception, the permittee must maintain a signed and certified statement with the facility SWPPP stating that the site is inactive and unstaffed, and that there is no exposure to stormwater.

4. **Sector-Specific Benchmark Monitoring.**

a. **Applicability.** This General Permit specifies pollutant benchmark thresholds that are applicable to certain Sectors. The permittee must monitor for any benchmark parameters specified for the industrial Sector(s), both primary industrial activity and any co-located industrial activities, applicable to the discharge. The sector-specific benchmark thresholds are listed in the sector-specific sections appended to this General Permit. The benchmark thresholds are not effluent limitations; a benchmark exceedance, therefore, is not a violation of this General Permit. However, if corrective action is required as a result of a benchmark exceedance, failure to conduct required corrective action is a violation of this General Permit.

b. **Minimum monitoring requirements.** Benchmark monitoring must be conducted quarterly for the first four full calendar quarters of coverage under this General Permit. When conditions prevent the permittee from obtaining four samples in four consecutive quarters, the permittee must continue monitoring until the four samples required for calculating your benchmark monitoring average have been obtained. The permittee must collect a stormwater sample from each outfall or a representative outfall for sector-specific benchmark monitoring. See section B(13) of this permit for documenting a representative outfall.

c. **Exceedances.** After collection of four quarterly samples, if the average of the four monitoring values for any parameter exceeds the benchmark threshold, the permittee must review the selection, design, installation, and implementation of the control measures to determine if modifications are necessary to meet the effluent limits in this General Permit, and either:

1. Make the necessary modifications and continue quarterly monitoring until the permittee has completed four additional quarters of monitoring for which the average does not exceed the benchmark; or

2. Propose to the Department that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet applicable water-quality-based effluent limitations, in which case the permittee must continue monitoring quarterly, unless other requirements to reduce pollutants are imposed by the Department. The permittee must also document its rationale for concluding that no further pollutant reductions are achievable, and retain all records related to this documentation with the SWPPP. The Department will evaluate each proposal and make a determination as to whether or not additional pollutant reductions are technologically available and economically practicable and achievable.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

The permittee must review its control measures and perform any required corrective action within fourteen (14) calendar days (or document why no corrective action is required) without waiting for the full four quarters of monitoring data, when an exceedance of the four quarter average is mathematically certain. If after modifying the control measures and conducting four additional quarters of monitoring, the average still exceeds the benchmark (or if an exceedance of the benchmark by the four quarter average is mathematically certain prior to conducting the full four additional quarters of monitoring), the permittee must again review its control measures and take one of the two actions above.

Following the first four quarters of benchmark monitoring, if the average concentration of a pollutant exceeds a benchmark value, and that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, the permittee is not required to perform corrective action or additional benchmark monitoring provided that:

3. The average concentration of the benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background; and

4. The permittee documents and maintains with the SWPPP supporting rationale, including data, literature studies any other pertinent information, for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels.

d. **Exception for inactive and unstaffed sites.** Notwithstanding applicable sector-specific requirements, the requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed (temporarily or permanent), provided that there are no industrial materials or activities exposed to stormwater. To invoke this exception, the permittee must maintain a signed and certified statement with the facility SWPPP stating that the site is inactive and unstaffed, and that there is no exposure to stormwater.

If circumstances change and industrial materials or activities become exposed to stormwater or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately begin complying with the applicable benchmark monitoring requirements as if it was in the first year of permit coverage.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

5. **Numeric Technology-Based Effluent Limitation Monitoring.**

   a. **Applicability.** Special Condition I of this General Permit establishes numeric technology-based effluent limitations based on USEPA effluent guidelines limitations. A permittee covered under this General Permit engaging in the regulated activities specified in Special Condition I of this General Permit must comply with all numeric effluent limitations specified in the Sector applicable to the facility. The effluent limitations guidelines are listed in the sector-specific sections appended to this General Permit. The effluent limitations set forth for each Sector are enforceable effluent limitations; an exceedance of an effluent limitation is a violation of this General Permit.

   b. **Minimum monitoring requirements.** Stormwater effluent monitoring must be conducted once per year each calendar year the permittee is covered under this General Permit, except for permittees subject to Sectors A & J, which includes non-stormwater discharges. Minimum monitoring requirements for Sector A & J facilities are specified in Appendix A & J of this General Permit. The permittee must collect a stormwater sample from each representative outfall for numeric monitoring.

   c. **Exceedances.** If any monitoring value exceeds a numeric effluent limitation contained in this General Permit, the permittee must:

      1. Submit the monitoring results to the Department within 14 days of receiving monitoring results;

      2. Comply with all applicable requirements for SWPPP Review and Correction Actions as specified in Special Condition O of this General Permit;

      3. Conduct follow-up monitoring within 30 calendar days (or during the next qualifying storm event, should none occur within 30 days) of implementing corrective action(s). If any follow-up monitoring result exceeds a numeric effluent limitation contained in this General Permit, submit the monitoring results to the Department within 14 days of receiving monitoring results; and

      4. Continue to monitor, at least quarterly, until your discharge is in compliance with the numeric effluent limit or until the Department waives the requirement for additional monitoring.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

6. **Impaired Waters Monitoring.**

   a. **Applicability.** Impaired waters monitoring applies to stormwater discharges to a water body listed on the 303(d) list of the current USEPA-approved Integrated Water Quality Monitoring and Assessment Report. The Department will determine whether a facility discharges to an impaired water based on receiving water information provided by the applicant on the NOI form.

   b. **Minimum monitoring requirements.**

      1. If a total maximum daily load (TMDL) has not been approved for the water body, stormwater effluent monitoring must be conducted once per year each calendar year the permittee is covered under this General Permit; or

      2. For storm water discharges to impaired waters with a USEPA approved or established TMDL, permittee's are not required to monitor for the pollutant(s) for which the TMDL was written unless the Department's informs the permittee, upon examination of the applicable TMDL and its wasteload allocation, that the permittee is subject to such a requirement consistent with the assumptions and requirements of the applicable TMDL and its wasteload allocation. The Department's notice will include specifications on monitoring parameters and testing frequency. Permittees must consult the Department for guidance regarding required monitoring under this section. See Attachment B of the Fact Sheet associated with this permit for a list of pollutant causing potential impairments, the specific monitoring parameters associated with the pollutant and the EPA approved method numbers. The list is being provided as guidance in the event a permittee chooses to be proactive in monitoring prior to being notified by the Department of specifications on monitoring parameters and testing frequency.

      No monitoring is required when a water body's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a water body's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant.

   c. **Monitoring parameters.** If the pollutant of concern for the impaired water body is suspended solids, turbidity or sediment/sedimentation, the permittee must monitor stormwater effluent for total suspended solids (TSS). If a pollutant of concern is expressed in the form of an indicator or surrogate pollutant, the permittee must monitor for that indicator or surrogate pollutant. Monitoring is required for all pollutants for which the water body is impaired and for which a standard analytical method exists pursuant to 40 CFR Part 136. Monitoring for specific parameters may cease when the discharge does not exceed or have reasonable potential to exceed ambient water quality criteria (AWQC) and is at or below natural background levels.

SPECIAL CONDITIONS

N. MONITORING REQUIREMENTS (cont'd)

If the pollutant of concern is not detected and not expected to be present in the discharge, or it is detected but the permittee has determined that its presence is caused solely by natural background sources, the permittee may discontinue monitoring for that pollutant. To support a determination that the pollutant's presence is caused solely by natural background sources, the permittee must keep the following documentation of this discharge with the facility's SWPPP.

1. An explanation of why the permittee believes that the presence of the pollutant of concern in the discharge is not related to the activities or materials at the facility; and
2. Data or studies which link the presence of the pollutant causing the impairment to what can be considered natural background sources in the watershed.

d. **Exceedances.** If any monitoring value exceeds a water quality-based limitation or ambient water quality criterion (AWQC), the permittee must:

1. Submit the monitoring results to the Department within 14 days of receiving monitoring results;

2. Comply with all applicable requirements for SWPPP Review and Correction Actions as specified in Special Condition O of this General Permit;

3. Conduct follow-up monitoring within 30 calendar days (or during the next qualifying storm event, should none occur within 30 days) of implementing corrective action(s). If any follow-up monitoring result exceeds a water quality-based limitation or AWQC, submit the monitoring results to the Department within 14 days of receiving monitoring results; and

4. Continue to monitor, at least quarterly, until your discharge is in compliance with the numeric effluent limit or until the Department waives the requirement for additional monitoring.

e. **Exception for inactive and unstaffed sites.** The requirement for impaired waters monitoring does not apply at a facility that is inactive and unstaffed (temporarily or permanently closed), provided that there are no industrial materials or activities exposed to stormwater. To invoke this exception, the permittee must maintain a signed and certified statement with the facility SWPPP stating that the site is inactive and unstaffed, and that there is no exposure to stormwater.

If circumstances change and industrial materials or activities become exposed to stormwater or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately begin complying with the applicable impaired waters monitoring requirements as if it was in the first year of permit coverage.

SPECIAL CONDITIONS

O. SWPPP REVIEW AND CORRECTIVE ACTIONS

1. **Conditions Requiring SWPPP Review and Revision to Ensure Effluent Limits are Met.**

   When any of the following conditions occur or are detected during an inspection, monitoring or other means, or the Department or the operator of the MS4 through which the facility discharges informs the permittee that any of the following conditions have occurred, the permittee must review and revise, as appropriate, the SWPPP (*e.g.*, sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of your control measures) so that this General Permit's effluent limits are met and pollutant discharges are minimized:

   a. An unauthorized release or discharge (*e.g.*, spill, leak, or discharge of non-stormwater not authorized by this or another MEPDES permit to a water of the State) occurs at the facility;
   b. A discharge violates a numeric effluent limitation contained in this General Permit, including Sector-specific effluent guidelines limitations, or an applicable water quality-based limitation or ambient water quality criteria associated with impaired waters monitoring;
   c. The control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit;
   d. A required control measure was never installed, was installed incorrectly, or is not being properly operated or maintained; or
   e. Whenever a visual assessment shows evidence of stormwater pollution (*e.g.*, color, odor, floating solids, settled solids, suspended solids, foam).

2. **Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary.**

   If any of the following conditions occur, the permittee must review the SWPPP to determine if modifications are necessary to meet the effluent limitations in this General Permit:

   a. Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
   b. The average of four quarterly sampling results exceeds an applicable benchmark. If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (*i.e.*, if the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance, triggering this review.

SPECIAL CONDITIONS

O. SWPPP REVIEW AND CORRECTIVE ACTIONS (cont'd)

3. **Corrective Actions and Deadlines.**

   a. **Immediate actions.** If corrective action is needed, the permittee must immediately take all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

      Note: In this context, the term "immediately" requires the permittee to, on the same day a condition requiring corrective action is found, take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action, the initiation of corrective action must begin no later than the following work day. "All reasonable steps" means that the permittee has undertaken initial actions to assess and address the condition causing the corrective action, including, for example, cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new BMP to be installed at a later date. "All reasonable steps" for purposes of complying with Special Condition O.2, Conditions Requiring SWPPP Review to Determine if Modifications Are Necessary, when the permittee concludes a corrective action is, in fact, not necessary, could include documenting why a corrective action is unnecessary

   b. **Subsequent actions.** If the permittee determines that additional actions are necessary beyond those implemented in accordance with immediate action response, the permittee must complete the corrective actions (*e.g.*, install a new or modified control and make it operational, complete the repair) before the next storm event if possible, and within 14 calendar days from the time of discovery of the corrective action condition. If it is infeasible to complete the corrective action within 14 calendar days, the permittee must document why it is infeasible to complete the corrective action within the 14-day timeframe. The permittee must also identify the schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. If the completion of corrective action will exceed the 45-day timeframe, the permittee may take the minimum additional time necessary to complete the corrective action, provided that the permittee notifies the Department of the intention to exceed 45 days, the permittee's rationale for an extension, and a completion date, which the permittee must also include in its corrective action documentation. Where the permittee's corrective actions result in changes to any of the controls or procedures documented in your SWPPP, the permittee must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

   c. **Corrective Action Report (CAR).** A Corrective Action Report is a signed, certified report to document actions taken in response to triggering the need for corrective action review due to an exceedance of a water quality based limitation, ambient water quality criterion or a deficiency identified in a Department inspection report.

SPECIAL CONDITIONS

O. SWPPP REVIEW AND CORRECTIVE ACTIONS (cont'd)

The existence of any of the conditions listed Special Condition O.1 and O.2 of this General Permit triggers the need for corrective action review.

A complete CAR must contain the following information:

1. The existence of any of the conditions listed Special Condition O.1 and O.2 of this General Permit and description of the condition triggering the need for corrective action review;
2. For any spills or leaks: a description of the incident including material, date/time, amount, location, and cause for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of State, through stormwater or otherwise;
3. Date the condition was identified;
4. Description of immediate actions completed, including measures taken to prevent the reoccurrence of such releases;
5. A description of the corrective actions taken or to be taken as a result of the identified conditions;
6. The dates when each corrective action was initiated and completed (or is expected to be completed); and
7. If the event triggering corrective action is associated with an outfall that had been identified as a representative outfall, documentation that the permittee assessed the need for corrective action for all related representative outfalls. All of the subsequent actions and deadlines specified above apply to representative outfalls.

d. **Effect of corrective action.** If the event triggering the review is a violation of this General Permit (*e.g.*, non-compliance with an effluent limit), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional violation of this General Permit.

P. RETENTION OF RECORDS

The permittee shall retain copies of the SWPPP, all reports, certifications and monitoring results required by this General Permit, and records of all data used to complete the Notice of Intent to be covered by this General Permit, for a period beginning the date that the facility is covered under this General Permit and lasts through the date of renewed coverage under a subsequent permit or through the date the permittee submits a Notice of Termination (NOT) for coverage under this permit.

Q. REOPENING OF PERMIT FOR MODIFICATION

In accordance with 38 M.R.S. § 414-A(5), the Department may, with notice to the permittee, reopen this General Permit to add or change conditions or effluent limitations for toxic compounds, to include specific limitations based on new information, or based on any other pertinent information obtained during the term of this General Permit.

SPECIAL CONDITIONS

R. SEVERABILITY

In the event that any provision, or part thereof, of this General Permit is declared to be unlawful by a reviewing court, the remainder of the General Permit must remain in full force and effect, and must be construed and enforced in all aspects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

ATTACHMENT A – SECTOR CODES

Sector A. Timber Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
A3	2411	Logging			
		(log storage and handling activities only; wet deck storage areas only authorized if no chemical additives are used in the spray water or applied to the logs.)	113310	Logging	
A1	2421	General Sawmills and Planing Mills			
		(sawmills)	321113	Sawmills	
		(lumber manufacturing from purchased lumber, softwood cut stock, wood lath, fence pickets, and planing mill products)	321912	Cut Stock, Resawing Lumber, and Planing	
		(softwood flooring)	321918	Other Millwork (including Flooring)	
		(box lumber made from purchased lumber)	321920	Wood Container and Pallet Manufacturing	
		(kiln drying)	321999	All Other Miscellaneous Wood Product Manufacturing	
A4	2426	Hardwood Dimension and Flooring Mills			
		(hardwood dimension lumber made from logs or bolts)	321113	Sawmills	
		(hardwood cut stock, resawing hardwood lumber, and planing purchased hardwood lumber except flooring)	321912	Cut Stock, Resawing Lumber, and Planing	
		(hardwood flooring)	321918	Other Millwork (including Flooring)	
		(wood furniture frames and finished furniture parts)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2429	Special Product Sawmills, Not Elsewhere Classified			
		(shingle mills, shakes)	321113	Sawmills	
		(stave manufacturing from purchased lumber)	321912	Cut Stock, Resawing Lumber, and Planing	
		(cooperage stock)	321920	Wood Container and Pallet Manufacturing	
		(excelsior)	321999	All Other Miscellaneous Wood Product Manufacturing	
	2431	Millwork			
		(wood windows and doors)	321911	Wood Window and Door Manufacturing	
		(except wood windows and doors)	321918	Other Millwork (including Flooring)	
	2435	Hardwood Veneer and Plywood	321211	Hardwood Veneer and Plywood Manufacturing	
	2436	Softwood Veneer and Plywood	321212	Softwood Veneer and Plywood Manufacturing	
	2439	Structural Wood Members, Not Elsewhere			

ATTACHMENT A – SECTOR CODES

		Classified			
		(except trusses)	321213	Engineered Wood Member (except Truss) Manufacturing	
		(trusses)	321214	Truss Manufacturing	
A5	2441	Nailed and Lock Corner Wood Boxes and Shook	321920	Wood Container and Pallet Manufacturing	
A4	2448	Wood Pallets and Skids	321920	Wood Container and Pallet Manufacturing	
	2449	Wood Containers, Not Elsewhere Classified	321920	Wood Container and Pallet Manufacturing	
	2451	Mobil Homes	321991	Manufactured Home (Mobil Home) Manufacturing	
	2452	Prefabricated Wood Buildings and Components	321992	Prefabricated Wood Building Manufacturing	
A2	2491	Wood Preserving	321114	Wood Preservation	
A4	2493	Reconstituted Wood Products	321219	Reconstituted Wood Product Manufacturing	
	2499	Wood Products, Not Elsewhere Classified			
		(wood containers, such as noncoopered vats and reed or straw baskets)	321920	Wood Container and Pallet Manufacturing	
		(except wood containers, wood cooling towers, cork life preservers, mirror or picture frames, and laundry hampers of reed, rattan, and willow)	321999	All Other Miscellaneous Wood Product Manufacturing	
		(wood cooling towers)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
		(laundry hampers of reed, rattan, and willow)	337125	Household Furniture (except Wood and Metal) Manufacturing	
		(cork life preservers)	339113	Surgical Appliance and Supplies Manufacturing	
		(mirror and picture frames)	339999	All Other Miscellaneous Manufacturing	

Sector B. Paper and Allied Products Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
B2	2611	Pulp Mills			
		(pulp producing mills only)	322110	Pulp Mills	
		(producing paper except newsprint)	322121	Paper (except Newsprint) Mills	
		(producing newsprint)	322122	Newsprint Mills	
		(producing paperboard)	322130	Paperboard Mills	
	2621	Paper Mills			
		(except newsprint mills)	322121	Paper (except Newsprint) Mills	
		(newsprint mills)	322122	Newsprint Mills	
B1	2631	Paperboard Mills	322130	Paperboard Mills	
B2	2652	Setup Paperboard Boxes	322213	Setup Paperboard Box Manufacturing	
	2653	Corrugated and Solid Fiber Boxes	322211	Corrugated and Solid Fiber Boxes Manufacturing	
	2655	Fiber Cans, Tubes, Drums, and Similar Products	322214	Fiber Can, Tube, Drum, and Similar Products Manufacturing	
	2656	Sanitary Food Containers, Except Folding	322215	Nonfolding Sanitary Food Container Manufacturing	
	2657	Folding Paperwork Boxes	322212	Folding Paperboard Box Manufacturing	
	2671	Packaging Paper and Plastics Film, Coated and Laminated			
		(except single-web and multi-web plastics packaging film and sheets)	322221	Coated and Laminated Packaging Paper and Plastics Film Manufacturing	
		(single-web and multi-web plastics packaging film and sheets)	326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing	Any facility whose primary activity is manufacturing single-web and multi-web plastics packaging film and sheets (SIC 2671 / NAICS 326112) should be regulated under Sector Y, but may continue to be regulated under Sector B, or alternatively, under Sector AD. Sectors Y, B, and AD do not have specific requirements for facilities manufacturing single-web and multi-web plastics packaging film and sheets. However, under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would not differ between Sectors B and Y.
	2672	Coated and Laminated Paper, NEC	322222	Coated and Laminated Paper Manufacturing	

	2673	Plastics, Foil, and Coated Paper Bags			
		(except single-web or multi-web plastics bags)	**322223**	Plastics, Foil, and Coated Paper Bags Manufacturing	
		(single-web and multi-web plastics bags)	**326111**	Plastics Bag Manufacturing	Any facility whose primary activity is manufacturing single-web and multi-web plastics bags (SIC 2673 / NAICS 326111) should be regulated under Sector Y, but may continue to be regulated under Sector B, or alternatively, under Sector AD. Sectors Y, B, and AD do not have specific requirements for facilities manufacturing single-web and multi-web plastics bags. However, under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would not differ between Sectors B and Y.
	2674	Uncoated Paper and Multiwall Bags	**322224**	Uncoated Paper and Multiwall Bags Manufacturing	
	2675	Die Cut Paper and Paperboard and Cardboard			
		(pasted, lined, laminated, or surface-coated paperboard)	**322226**	Surface-Coated Paperboard Manufacturing	
		(die cut paper and paperboard office supplies, such as file folders, tabulating cards, and report covers)	**322231**	Die Cut Paper and Paperboard Office Supplies Manufacturing	
		(except pasted, lined, laminated, or surface-coated paperboard and die-cut paper and paperboard office supplies)	**322299**	All Other Converted Paper Product Manufacturing	
	2676	Sanitary Paper Products	**322291**	Sanitary Paper Product Manufacturing	
	2677	Envelopes	**322232**	Envelope Manufacturing	
	2678	Stationery, Tablets, and Related Products	**322233**	Stationery, Tablets, and Related Product Manufacturing	
	2679	Converted Paper and Paperboard Products, NEC			
		(corrugated paper)	**322211**	Corrugated and Solid Fiber Box Manufacturing	
		(wallpaper and gift wrap paper)	**322222**	Coated and Laminated Paper Manufacturing	
		(paper supplies for	**322231**	Die Cut Paper and Paperboard	

		business machines, such as adding machine tape, and other paper office supplies)		Office Supplies Manufacturing	
		(except corrugated paper, wall paper, gift wrap paper, paper supplies for business machines, and other paper office supplies)	**322299**	All Other Converted Paper Product Manufacturing	

Sector C. Chemical and Allied Products Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
C2	2812	Alkalies and Chlorine	325181	Alkalies and Chlorine Manufacturing	
	2813	Industrial Gases	325120	Industrial Gas Manufacturing	
	2816	Inorganic Pigments			
		(except bone and lamp black)	325131	Inorganic Dye and Pigment Manufacturing	
		(bone and lamp black)	325182	Carbon Black Manufacturing	
	2819	Industrial Inorganic Chemicals, Not Elsewhere Classified			
		(recovering sulfur from natural gas)	211112	Natural Gas Liquid Extraction	
		(inorganic dyes)	325131	Inorganic Dye and Pigment Manufacturing	
		(other)	325131	All Other Basic Inorganic Chemical Manufacturing	
		(activated carbon and charcoal)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
		(alumina)	331311	Alumina Refining	Any facility whose primary activity is alumina refining (NAICS 331311) should be regulated under Sector F, but may continue to be regulated under Sector C. Sector C requires sector/subsector specific benchmark monitoring for total aluminum, total iron, and nitrate plus nitrite nitrogen. Sector F applies additional technology-based effluent limits comprised of good housekeeping measures; additional SWPPP requirements; and additional inspection requirements. Regulatory burdens differ between Sectors C and F but determining which sector would be more burdensome would depend on the regulated facility.
C4	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers	325211	Plastics Material and Resin Manufacturing	
	2822	Synthetic Rubber	325212	Synthetic Rubber Manufacturing	
	2823	Cellulosic Manmade Fibers	325221	Cellulosic Organic Fiber Manufacturing	
	2824	Manmade Organic Fibers, Except Cellulosic	325222	Noncellulosic Organic Fiber Manufacturing	

ATTACHMENT A – SECTOR CODES

C5	2833	Medicinal Chemicals and Botanical Products	325411	Medicinal and Botanical Manufacturing	
	2834	Pharmaceutical Preparations	325412	Pharmaceutical Preparation Manufacturing	
	2835	In Vitro and In Vivo Diagnostic Substances			
		(except in vitro diagnostic)	325412	Pharmaceutical Preparation Manufacturing	
		(in vitro diagnostic substances)	325413	In Vitro Diagnostic Substance Manufacturing	
	2836	Biological Products, Except Diagnostic Substances	325414	Biological Product (except Diagnostic) Manufacturing	
C3	2841	Soaps and Other Detergents, Except Specialty Cleaners	325611	Soap and Other Detergent Manufacturing	
	2842	Specialty Cleaning, Polishing, and Sanitation Preparations	325612	Polish and Other Sanitation Good Manufacturing	
	2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	325613	Surface Active Agent Manufacturing	
	2844	Perfumes, Cosmetics, and Other Toilet Preparations			
		(toothpaste, gel and dentifrice powders)	325611	Soap and Other Detergent Manufacturing	
		(except toothpaste, gel and dentifrice powders)	325620	Toilet Preparation Manufacturing	
C5	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	325510	Paint and Coating Manufacturing	
	2861	Gum and Wood Chemicals	325191	Gum and Wood Chemical Manufacturing	
	2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments			
		(aromatics)	325110	Petrochemical Manufacturing	
		(organic dyes and pigments)	325132	Synthetic Organic Dye and Pigment Manufacturing	
		(except aromatics and organic dyes and pigments)	325192	Cyclic Crude and Intermediate Manufacturing	
	2869	Industrial Organic Chemicals, Not Elsewhere Classified			
		(aliphatics)	325110	Petrochemical Manufacturing	
		(fluorocarbon gases)	325120	Industrial Gas Manufacturing	
		(carbon bisulfide)	325188	All Other Basic Inorganic Chemical Manufacturing	
		(cyclopropane, diethylcyclohexane, naphthalene sulfonic acid)	325192	Cyclic Crude and Intermediate Manufacturing	
		(ethyl alcohol)	325193	Ethyl Alcohol Manufacturing	
		(except aliphatics, carbon bisulfide, ethyl alcohol, cyclopropane, diethylcyclohexane, napthalene sulfonic acid,	325199	All Other Basic Organic Chemical Manufacturing	

		synthetic hydraulic fluids, and fluorocarbon gases)			
		(synthetic hydraulic fluids)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
C1	2873	Nitrogenous Fertilizers	325311	Nitrogenous Fertilizer Manufacturing	
	2874	Phosphatic Fertilizers	325312	Phosphatic Fertilizer Manufacturing	
	2875	Fertilizers, Mixing Only	325314	Fertilizers (Mixing Only) Manufacturing	
	2879	Pesticides and Agricultural Chemicals, NEC	325320	Pesticides and Other Agricultural Chemical Manufacturing	
C5	2891	Adhesives and Sealants	325520	Adhesive Manufacturing	
	2892	Explosives	325920	Explosives Manufacturing	
	2893	Printing Ink	325910	Printing Ink Manufacturing	
	2895	Carbon Black	325182	Carbon Black Manufacturing	
	2899	Chemicals and Chemical Preparations, NEC			
		(table salt)	311942	Spice and Extract Manufacturing (table salt only)	
		(fatty acids)	325199	All Other Basic Organic Chemical Manufacturing	
		(frit and plastic wood fillers)	325510	Paint and Coating Manufacturing	
		(except frit, plastic wood fillers, fatty acids, and table salt)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
	2911	Petroleum Refining	324110	Petroleum Refineries	
	3952	Lead Pencils, Crayons, and Artists' Materials (limited to inks and paints, including china painting enamels)			
		(drawing inks and india ink)	325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	
		(china painting enamels, platinum paint for burnt wood or leather work, paints for china painting, artist's paints, and artist's watercolors)	339942	Lead Pencil and Art Good Manufacturing	

Sector D. Asphalt Paving and Roofing Materials Manufacturers and Lubricant Manufacturers					
Sub-sector	SIC Codes		NAICS Codes		Notes
D1	2951	Asphalt Paving Mixtures and Blocks	324121	Asphalt Paving Mixture and Block Manufacturing	
	2952	Asphalt Felt and Coatings	324122	Asphalt Shingle and Coating Materials Manufacturing	
D2	2992	Lubricating Oils and Greases	324191	Petroleum Lubricating Oil and Grease Manufacturing	
	2999	Products of Petroleum and Coal, Not Elsewhere Classified	324199	All Other Petroleum and Coal Products Manufacturing	

Sector E. Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
E3	3211	Flat Glass	327211	Flat Glass Manufacturing	
	3221	Glass Containers	327213	Glass Container Manufacturing	
	3229	Pressed and Blown Glass and Glassware, Not Elsewhere Classified	327212	Other Pressed and Blown Glass and Glassware Manufacturing	
	3231	Glass Product Manufacturing Made of Purchased Glass	327215	Glass Product Manufacturing Made of Purchased Glass	
	3241	Hydraulic Cement	327310	Cement Manufacturing	
E1	3251	Brick and Structural Clay Tile			
		(except slumped brick)	327121	Brick and Structural Clay Tile Manufacturing	
		(slumped brick)	327331	Concrete Block and Brick Manufacturing	
	3253	Ceramic Wall and Floor Tile	327122	Ceramic Wall and Floor Tile Manufacturing	
	3255	Clay Refractories	327124	Clay Refractory Manufacturing	
	3259	Structural Clay Products, Not Elsewhere Classified	327123	Other Structural Clay Product Manufacturing	
	3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	327111	Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing	
	3262	Vitreous China Table and Kitchen Articles	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
	3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
	3264	Porcelain Electrical Supplies	327113	Porcelain Electrical Supply Manufacturing	
	3269	Pottery Products, Not Elsewhere Classified	327112	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
E2	3271	Concrete Block and Brick	327331	Concrete Block and Brick Manufacturing	
	3272	Concrete Products, Except Block and Brick			
		(concrete pipe)	327332	Concrete Pipe Manufacturing	
		(concrete products, except dry mix concrete and pipe)	327390	Other Concrete Product Manufacturing	
		(dry mixture concrete)	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	
	3273	Ready-Mixed Concrete	327320	Ready-Mix Concrete Manufacturing	
	3274	Lime Manufacturing			
		Calcium hydroxide (i.e., hydrated lime) manufacturing	327410	Lime Manufacturing	
		Calcium oxide (i.e., quicklime) manufacturing	327410	Lime Manufacturing	
		Dolomite, dead-burned, manufacturing	327410	Lime Manufacturing	

		Hydrated lime (i.e., calcium hydroxide) manufacturing	327410	Lime Manufacturing	
		Quicklime (i.e., calcium oxide) manufacturing	327410	Lime Manufacturing	
		Agricultural lime manufacturing	327410	Lime Manufacturing	
		Dolomitic lime manufacturing	327410	Lime Manufacturing	
	3275	Gypsum Products	327420	Gypsum Product Manufacturing	
E3	3281	Cut Stone and Stone Products	327991	Cut Stone and Stone Product Manufacturing	
	3291	Abrasive Products			
		(except steel wool manufacturing)	327910	Abrasive Product Manufacturing	
		(steel wool manufacturing)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	Any facility whose primary activity is steel wool manufacturing (NAICS 332999) should be regulated under Sector AA, but may continue to be regulated under Sector E. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector E applies additional technology-based effluent limits comprised of good housekeeping measures, and additional SWPPP requirements. Regulatory burden would likely be greater under Sector AA.
	3292	Asbestos Products			
		(except brake pads and linings)	327999	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	
		(asbestos brake linings and pads)	336340	Motor Vehicle Brake System Manufacturing	
		(asbestos clutch facings, motor vehicle)	336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	
	3295	Minerals and Earths, Ground or Otherwise Treated			
		(grinding, washing, separating, etc. of kaolin and ball clay)	212324	Kaolin and Ball Clay Mining	
		(grinding, washing, separating, etc. of clay,	212325	Clay and Ceramic and Refractory Minerals Mining	

		ceramic, and refractory minerals not elsewhere classified)			
		(grinding, washing, separating, etc. of chemical and fertilizer minerals, not elsewhere classified)	**212393**	Other Chemical and Fertilizer Mineral Mining	
		(grinding, washing, separating, etc. of nonmetallic minerals, not elsewhere classified)	**212399**	All Other Nonmetallic Mineral Mining	
		(except grinding, washing, separating, etc. of nonmetallic minerals)	**327992**	Ground or Treated Mineral and Earth Manufacturing	
	3296	Mineral Wool	**327993**	Mineral Wool Manufacturing	
	3297	Nonclay Refractories	**327125**	Nonclay Refractory Manufacturing	
	3299	Nonmetallic Mineral Products, Not Elsewhere Classified			
		(clay statuary)	**327112**	Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing	
		(moldings, ornamental and architectural plaster work, and gypsum statuary)	**327420**	Gypsum Product Manufacturing	
		(except moldings, ornamental and architectural plaster work, clay statuary, and gypsum statuary)	**327999**	All Other Miscellaneous Nonmetallic Mineral Product Manufacturing	

Sector F. Primary Metals					
Sub-sector	SIC Codes		NAICS Codes		Notes
F1	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills			
		(coke oven products [e.g., coke, gases, tars] made in coke oven establishments)	324199	All Other Petroleum and Coal Products Manufacturing	Any facility whose primary activity is manufacturing coke oven products (e.g., coke, gases, tars) made in coke oven establishments should be regulated under Sector D, but may continue to be regulated under Sector F. Sector F requires sector-specific benchmark monitoring requirements for total aluminum and total zinc, Sector D does not require benchmark monitoring from these facilities. Regulatory burden would be greater under Sector F.
		(except coke ovens not integrated with steel mills and hot-rolling purchased steel)	331111	Iron and Steel Mills	
		(hot-rolling purchased steel)	331221	Rolled Steel Shape Manufacturing	
	3313	Electrometallurigcal Products, Except Steel	331112	Electrometallurigcal Ferroalloy Product Manufacturing	
	3315	Steel Wiredrawing and Steel Nails and Spikes			
		(steel wire drawing)	331222	Steel Wire Drawing	
	3316	Cold-Rolled Steel Sheet, Strip, and Bars	331221	Rolled Steel Shape Manufacturing	
	3317	Steel Pipe and Tubes	331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	
F2	3321	Gray and Ductile Iron Foundries	331511	Iron Foundries	
	3322	Malleable Iron Foundries	331511	Iron Foundries	
	3324	Steel Investment Foundries	331512	Steel Investment Foundries	
	3325	Steel Foundries, NEC	331513	Steel Foundries (except Investment)	
F5	3331	Primary Smelting and Refining of Copper	331411	Primary Smelting and Refining of Copper	
	3334	Primary Production of Aluminum	331312	Primary Aluminum Production	
	3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)	
	3341	Secondary Smelting and Refining of Nonferrous			

		Metals			
		(aluminum)	331314	Secondary Smelting and Alloying of Aluminum	
		(copper)	331423	Secondary Smelting, Refining and Alloying of Copper	
		(except copper and aluminum)	331492	Secondary Smelting, Refining and Alloying of Nonferrous Metal (except Copper and Aluminum)	
F3	3351	Rolling, Drawing, and Extruding of Copper	331421	Copper Rolling, Drawing, and Extruding	
	3353	Aluminum Sheet, Plate, and Foil	331315	Aluminum Sheet, Plate, and Foil Manufacturing	
	3354	Aluminum Extruded Products	331316	Aluminum Extruded Product Manufacturing	
	3355	Aluminum Rolling and Drawing, Not Elsewhere Classified	331319	Other Aluminum Rolling and Drawing	
	3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	331491	Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding	
	3357	Drawing and Insulating of Nonferrous Wire			
		(aluminum wire drawing)	331319	Other Aluminum Rolling and Drawing	
		(copper wire drawing)	331422	Copper Wire (except Mechanical) Drawing	
		(wire drawing except copper or aluminum)	331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding	
		(fiber optic cable-insulating only)	335921	Fiber Optic Cable Manufacturing	
		(communication and energy wire, except fiber optic-insulating only)	335929	Other Communication and Energy Wire Manufacturing	
F4	3363	Aluminum Die Castings	331521	Aluminum Die Casting Foundries	
	3364	Nonferrous Die Castings, Except Aluminum	331522	Nonferrous (Except Aluminum) Die Casting Foundries	
	3365	Aluminum Foundries	331524	Aluminum Foundries (Except Die-Casting)	
	3366	Copper Foundries	331525	Copper Foundries (Except Die-Casting)	
	3369	Nonferrous Foundries, Except Copper and Aluminum	331528	Other Nonferrous Foundries (Except Die-Casting)	
F5	3398	Metal Heat Treating	332811	Metal Heat Treating	
	3399	Primary Metal Products, Not Elsewhere Classified			
		(iron ore recovery from open hearth slag)	331111	Iron and Steel Mills	
		(ferrous powder, paste, flakes, etc.)	331221	Rolled Steel Shape Manufacturing	
		(aluminum powder, paste, flakes, etc.)	331314	Secondary Smelting and Alloying of Aluminum	
		(copper powder, paste, flakes, etc.)	331423	Secondary Smelting, Refining, and Alloying of Copper	
		(nonferrous powder,	331492	Secondary Smelting, Refining,	

		paste, flakes, etc. except copper and aluminum)		and Alloying of Nonferrous Metal (except Copper and Aluminum)	
		(nonferrous nails, brads, staples, tacks, etc. made from purchased nonferrous wire)	332618	Other Fabricated Wire Product Manufacturing	

Sector G. Metal Mining (Ore Mining and Dressing)					
Sub-sector	SIC Codes		NAICS Codes		Notes
G1	1021	Copper Ores	212234	Copper Ore and Nickel Ore Mining	
G2	1011	Iron Ores	212210	Iron Ore Mining	
	1021	Copper Ores	212234	Copper Ore and Nickel Ore Mining	
	1031	Lead and Zinc Ores	212231	Lead Ore and Zinc Ore Mining	
	1041	Gold Ores	212221	Gold Ore Mining	
	1044	Silver Ores	212222	Silver Ore Mining	
	1061	Ferroalloy Ores, Except Vanadium			
		(nickel)	212234	Copper Ore and Nickel Ore Mining	
		(other ferroalloys except nickel)	212299	All Other Metal Ore Mining	
	1081	Metal Mining Services			
		(except site preparation and related activities performed on a contract or fee basis and geophysical surveying and mapping)	213114	Support Activities for Metal Mining	
		(site preparation and related construction activities on a contract basis)	238910	Site Preparation Contractors	
	1094	Uranium-Radium-Vanadium Ores	212291	Uranium-Radium-Vanadium Ore Mining	
	1099	Miscellaneous Metal Ores, Not Elsewhere Classified	212299	All Other Metal Ore Mining	

Sector H. Coal Mines and Coal Mining-Related Facilities					
Sub-sector	SIC Codes		NAICS Codes		Notes
H1	1221	Bituminous Coal and Lignite Surface Mining	212111	Bituminous Coal and Lignite Surface Mining	
	1222	Bituminous Coal Underground Mining	212112	Bituminous Coal Underground Mining	
	1231	Anthracite Mining	212113	Anthracite Mining	
	1241	Coal Mining Services			
		(except site preparation and related construction activities on a contract basis)	213113	Support Activities for Coal Mining	
		(site preparation and related construction activities on a contract basis)	238910	Site Preparation Contractors	

ATTACHMENT A – SECTOR CODES

Sector I. Oil and Gas Extraction					
Sub-sector	**SIC Codes**		**NAICS Codes**		**Notes**
I1	**1311**	Crude Petroleum and Natural Gas	**211111**	Crude Petroleum and Natural Gas Extraction	
	1321	Natural Gas Liquids	**211112**	Natural Gas Liquid Extraction	
	1381	Drilling Oil and Gas Wells	**213111**	Drilling Oil and Gas Wells	
	1382	Oil and Gas Field Exploration Services	**213112**	Support Activities for Oil and Gas Operations	
	1389	Oil and Gas Field Services, Not Elsewhere Classified			
		(except construction of field gathering lines, site preparation and related construction activities performed on a contract or fee basis)	**213112**	Support Activities for Oil and Gas Operations	
		(construction of field gathering lines on a contract or fee basis)	**237120**	Oil and Gas Pipeline and Related Structures Construction	
		(site preparation and related construction activities on a contract basis)	**238910**	Site Preparation Contractors	

ATTACHMENT A – SECTOR CODES

Sector J. Mineral Mining and Dressing					
Sub-sector	SIC Codes		NAICS Codes		Notes
J2	1411	Dimension Stone	212311	Dimension Stone Mining and Quarrying	
	1422	Crushed and Broken Limestone	212312	Crushed and Broken Limestone Mining and Quarrying	
	1423	Crushed and Broken Granite	212313	Crushed and Broken Granite Mining and Quarrying	
	1429	Crushed and Broken Stone, Not Elsewhere Classified	212319	Other Crushed and Broken Stone Mining and Quarrying	
J1	1442	Construction Sand and Gravel	212321	Construction Sand and Gravel Mining	
	1446	Industrial Sand	212322	Industrial Sand Mining	
J3	1455	Kaolin and Ball Clay	212324	Kaolin and Ball Clay Mining	
	1459	Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified	212325	Clay, Ceramic, and Refractory Minerals Mining	
	1474	Potash, Soda, and Borate Minerals	212391	Potash, Soda, and Borate Mineral Mining	
	1475	Phosphate Rock	212392	Phosphate Rock Mining	
	1479	Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified	212393	Other Chemical and Fertilizer Mineral Mining	
J2	1481	Nonmetallic Minerals Services, Except Fuels			
		(except geophysical surveying and mapping and site preparation and related construction activities performed on a contract or fee basis)	213115	Support Activities for Nonmetallic Minerals (except Fuels)	
		(site preparation and related construction activities on a contract basis)	238910	Site Preparation Contractors	
	1499	Miscellaneous Nonmetallic Minerals, Except Fuels			
		(except bituminous limestone and bituminous sandstone)	212399	All Other Nonmetallic Mineral Mining	

Sector K. Hazardous Waste Treatment, Storage or Disposal Facilities			
Sub-Sector	**Activity Code**	**Narrative Description**	**Notes**
K1	HZ	• Hazardous waste treatment • Hazardous waste storage • Hazardous waste disposal • Hazardous waste facilities operating under interim status • Hazardous waste facilities operating under a permit under Subtitle C of RCRA	HZ is the Activity Code (i.e., non-SIC / non-NAICS designation) for this Sector. It potentially applies to any facility regardless of SIC / NAICS Code, in addition to these specifically related to hazardous waste: • SIC 4953 Refuse Systems (hazardous waste treatment and disposal); • NAICS 562211 Hazardous Waste Treatment and Disposal; • NAICS 562112 Hazardous Waste Collection (hazardous waste transfer stations).

Sector L. Landfills and Land Application Sites			
Sub-Sector	**Activity Code**	**Narrative Description**	**Notes**
L1	LF	• All Landfill, Land Application Sites and Open Dumps	LF is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to landfills and landfill application sites: • SIC 4953 Refuse Systems (solid waste landfills); • NAICS 562212 Solid Waste Landfill. Industrial waste is waste from any of the facilities covered by the MSGP (also described in 40 CFR 122.26(b)(14)).
L2	LF	All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.	

Sector M. Automobile Salvage Yards					
Sub-sector	SIC Codes		NAICS Codes		Notes
M1	5015	Motor Vehicle Parts, Used			
		(merchant wholesalers except those selling via retail method)	423140	Motor Vehicle Parts (Used) Merchant Wholesalers	

Sector N. Scrap Recycling Facilities					
Sub-sector	SIC Codes		NAICS Codes		Notes
N1	5093	Scrap and Waste Materials			
		(merchant wholesalers except Source-Separated Recycling)	423930	Recyclable Material Merchant Wholesalers	
N2	5093	Scrap and Waste Materials			
		(Source-Separated Recycling)	423930	Recyclable Material Merchant Wholesalers	

Sector O. Steam Electric Generating Facilities			
Sub-Sector	**Activity Code**	**Narrative Description**	**Notes**
O1	SE	• steam electric power generation using coal, including coal handling areas • steam electric power generation using natural gas • steam electric power generation using oil • steam electric power generation using nuclear energy • steam electric power generation using any other fuel to produce a steam source • coal pile runoff (includes effluent limitations established by 40 CFR 423) • dual fuel co-generation (i.e., steam generation using fossil fuel to augment a heat-capture generation system)	SE is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to steam electric generation: • SIC 4911 Electric Services (fossil fuel power generation, nuclear electric power generation & other electric power generation) • NAICS 221112 Fossil Fuel Electric Power Generation • NAICS 221113 Nuclear Electric Power Generation

Sector P. Land Transportation					
Sub-sector	SIC Codes		NAICS Codes		Notes
P1	4011	Railroads, Line-Haul Operating	482111	Line-Haul Railroads	
	4013	Railroad Switching and Terminal Establishments			
		(short line railroads)	482112	Short Line Railroads	
		(except short line railroads)	488210	Support Activities for Rail Transportation	
	4111	Local and Suburban Transit			
		(mixed mode)	485111	Mixed Mode Transit Systems	
		(commuter rail)	485112	Commuter Rail Systems	
		(bus and motor vehicle)	485113	Bus and Other Motor Vehicle Transit Systems	
		(except mixed mode, commuter rail, airport transportation service, and bus and motor vehicle)	485119	Other Urban Transit Systems	
		(airport transportation service)	485999	All Other Transit and Ground Passenger Transportation	
	4119	Local Passenger Transportation, Not Elsewhere Classified			
		(limousine rental with driver and automobile rental with driver)	485320	Limousine Service	
		(employee transportation)	485410	School and Employee Bus Transportation	
		(special needs transportation)	485991	Special Needs Transportation	
		(hearse rental with driver and carpool and vanpool operation)	485999	All Other Transit and Ground Passenger Transportation	
		(sightseeing buses and cable and cog railways, except scenic)	487110	Scenic and Sightseeing Transportation, Land	
		(land ambulance)	621910	Ambulance Services	
	4121	Taxicabs	485310	Taxi Service	
	4131	Intercity and Rural Bus Transportation	485210	Interurban and Rural Bus Transportation	
	4141	Local Bus Charter Service	485510	Charter Bus Industry	
	4142	Bus Charter Service, Except Local	485510	Charter Bus Industry	
	4151	School Buses	485410	School and Employee Bus Transportation	
	4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	488490	Other Support Activities for Road Transportation	

	4212	Local Trucking Without Storage			
		(general freight)	**484110**	General Freight Trucking, Local	
		(household goods moving)	**484210**	Used Household and Office Goods Moving	
		(specialized freight)	**484220**	Specialized Freight (except Used Goods) Trucking, Local	
		(solid waste collection without disposal)	**562111**	Solid Waste Collection	
		(hazardous waste collection without disposal)	**562112**	Hazardous Waste Collection	
		(other waste collection without disposal)	**562119**	Other Waste Collection	
	4213	Trucking, Except Local			
		(general freight, truckload)	**484121**	General Freight Trucking, Long-Distance, Truckload	
		(general freight, less than truckload)	**484122**	General Freight Trucking, Long-Distance, Less Than Truckload	
		(household goods moving)	**484210**	Used Household and Office Goods Moving	
		(specialized freight)	**484230**	Specialized Freight (except Used Goods) Trucking, Long-Distance	
	4214	Local Trucking With Storage			
		(general freight)	**484110**	General Freight Trucking, Local	
		(household goods moving)	**484210**	Used Household and Office Goods Moving	
		(specialized freight)	**484220**	Specialized Freight (except Used Goods) Trucking, Local	
	4215	Courier Services, Except by Air			
		(hub and spoke intercity delivery)	**492110**	Couriers	
		(local delivery)	**492210**	Local Messengers and local Delivery	
	4226	Special Warehousing and Storage, Not Elsewhere Classified			
		(warehousing in foreign trade zones)	**493110**	General Warehousing and Storage	
		(fur storage)	**493120**	Refrigerated Warehousing and Storage	
		(except fur storage and warehousing in foreign trade zones)	**493190**	Other Warehousing and Storage	
	4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	**488490**	Other Support Activities for Road Transportation	

ATTACHMENT A – SECTOR CODES

	4311	United States Postal Service	**491110**	Postal Service	
	5171	Petroleum Bulk Stations and Terminals			
		(except petroleum sold via retail method)	**424710**	Petroleum Bulk Stations and Terminals	
		(heating oil sold to final consumer)	**454311**	Heating Oil Dealers	
		(LP gas sold to final consumer)	**454312**	Liquefied Petroleum Gas (Bottled Gas) Dealers	

Sector Q. Water Transportation					
Sub-sector	SIC Codes		NAICS Codes		Notes
Q1	4412	Deep Sea Foreign Transportation of Freight	483111	Deep Sea Freight Transportation	
	4424	Deep Sea Domestic Transportation of Freight	483113	Coastal and Great Lakes Freight Transportation	
	4432	Freight Transportation on the Great Lakes - St. Lawrence Seaway	483113	Coastal and Great Lakes Freight Transportation	
	4449	Water Transportation of Freight, Not Elsewhere Classified	483211	Inland Water Freight Transportation	
	4481	Deep Sea Transportation of Passengers, Except by Ferry			
		(deep sea activities)	483112	Deep Sea Passenger Transportation	
		(coastal activities)	483114	Coastal and Great Lakes Passenger Transportation	
	4482	Ferries			
		(coastal and Great Lakes)	483114	Coastal and Great Lakes Passenger Transportation	
		(inland)	483212	Inland Water Passenger Transportation	
	4489	Water Transportation of Passengers, Not Elsewhere Classified			
		(water taxis)	483212	Inland Water Passenger Transportation	
		(airboats, excursion boats, and sightseeing boats)	487210	Scenic and Sightseeing Transportation, Water	
	4491	Marine Cargo Handling			
		(dock and pier operations)	488310	Port and Harbor Operations	
		(all but dock and pier operations)	488320	Marine Cargo Handling	
	4492	Towing and Tugboat Services	488330	Navigational Services to Shipping	
	4493	Marinas	713930	Marinas	
	4499	Water Transportation Services, Not Elsewhere Classified			
		(lighterage)	483211	Inland Water Freight Transportation	
		(lighthouse and canal operations)	488310	Port and Harbor Operations	
		(piloting vessels in and out of harbors and marine salvage)	488330	Navigational Services to Shipping	
		(all but lighthouse operations, piloting vessels in and out of harbors, boat and ship rental, marine salvage, lighterage, marine surveyor services, and canal operations)	488390	Other Support Activities for Water Transportation	
		(boat and ship rental, commercial)	532411	Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing	

Sector R. Ship and Boat Building and Repair Yards					
Sub-sector	SIC Codes		NAICS Codes		Notes
R1	3731	Ship Building and Repairing			
		(except repairs in floating drydocks)	336611	Ship Building and Repairing	
		(repair services provided by floating drydocks)	488390	Other Support Activities for Water Transportation (includes ship scaling facilities)	
	3732	Boat Building and Repairing			
		(boat building)	336612	Boat Building	
		(pleasure boat repair and maintenance services without retailing new boats)	811490	Other Personal and Household Goods Repair and Maintenance	
	7699	Repair Shops and Related Services, Not Elsewhere Classified[18]			SIC 7699 was previously not included in Sector R, but the specific industrial activity listed is now covered in Sector R.
		(ship scaling)	488390	Other Support Activities for Water Transportation (drydocks, floating [i.e., routine repair and maintenance of ships]; other support activities for water transportation; ship dismantling at floating drydock; ship scaling services not done at a shipyard)	
		(motorboat [i.e., inboard and outboard] repair and maintenance services; outboard motor repair shops)	811490	Other Personal and Household Goods Repair and Maintenance	

Sector S. Air Transportation Facilities					
Sub-sector	SIC Codes		NAICS Codes		Notes
S1	4512	Air Transportation, Scheduled			
		(passenger)	481111	Scheduled Passenger Air Transportation	
		(freight)	481112	Scheduled Freight Air Transportation	
	4513	Air Courier Services	492110	Couriers	
	4522	Air Transportation, Nonscheduled			
		(passenger)	481211	Nonscheduled Chartered Passenger Air Transportation	
		(freight)	481212	Nonscheduled Chartered Freight Air Transportation	
		(using general purpose aircraft for a variety of passenger, freight, courier, and other uses)	481219	Other Nonscheduled Air Transportation	
		(sightseeing planes)	487990	Scenic and Sightseeing Transportation, Other	
		(air ambulance)	621910	Ambulance Services	
	4581	Airports, Flying Fields, and Airport Terminal Services			
		(air freight handling at airports, hangar operations, airport terminal services, aircraft storage, airports, and flying fields)	488119	Other Airport Operations	
		(aircraft servicing and repairing)	488190	Other Support Activities for Air Transportation	

Sector T. Treatment Works			
Sub-sector	**Activity Code**	**Narrative Description**	**Notes**
T1	**TW**	• treatment works with a design flow of 1.0 MGD or more treating domestic sewage or any other sewage sludge; • wastewater treatment devices or system used by the treatment works for the storage, treatment, recycling and reclamation of municipal or domestic sewage; • land located within the confines of the treatment works that is dedicated to the disposal of sewage sludge; • treatment works required to have an approved pretreatment program under 40 CFR Part 403	TW is the Activity Code (i.e., non-SIC and non-NAICS designation) for this Sector. It may apply to any facility / SIC Code / NAICS Code, in addition to these specifically related to treatment works: • SIC 4952 Sewerage Systems • NAICS 221320 Sewage Treatment Facilities

Sector U. Food and Kindred Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
U3	2011	Meat Packing Plants	311611	Animal (except Poultry) Slaughtering	
	2013	Sausages and Other Prepared Meat Products			
		(except lard made from purchased materials)	311612	Meat Processed from Carcasses	
		(lard made from purchased materials)	311613	Rendering and Meat Byproduct Processing	
	2015	Poultry Slaughtering and Processing			
		(poultry slaughtering and processing)	311615	Poultry Processing	
		(egg processing)	311999	All Other Miscellaneous Food Manufacturing	
	2021	Creamery Butter	311512	Creamery Butter Manufacturing	
	2022	Natural, Processed, and Imitation Cheese	311513	Cheese Manufacturing	
	2023	Dry, Condensed and Evaporated Dairy Products			
		(liquid non-dairy creamer)	311511	Fluid Milk Manufacturing	
		(except liquid non-dairy creamer)	311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	
	2024	Ice Cream and Frozen Deserts	311520	Ice Cream and Frozen Desert Manufacturing	
	2026	Fluid Milk			
		(except ultra-high temperature)	311511	Fluid Milk Manufacturing	
		(ultra-high temperature)	311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing	
	2032	Canned Specialties			
		(except canned puddings)	311422	Specialty Canning	
		(canned puddings)	311999	All Other Miscellaneous Food Manufacturing	
	2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	311421	Fruit and Vegetable Canning	
	2034	Dried and Dehydrated Fruits, Vegetables and Soup Mixes			
		(vegetable flour)	311211	Flour Milling	
		(except vegetable flour and soup mixes made from purchased dried and dehydrated ingredients)	311423	Dried and Dehydrated Food Manufacturing	
		(soup mixes made from purchased dehydrated ingredients)	311999	All Other Miscellaneous Food Manufacturing	
	2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings			
		(pickled fruits and vegetables)	311421	Fruit and Vegetable Canning	

		(sauces and salad dressings)	311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	
	2037	Frozen Fruits, Fruit Juices, and Vegetables	311411	Frozen Fruit, Juice, and Vegetable Manufacturing	
	2038	Frozen Specialties, Not Elsewhere Classified	311412	Frozen Specialty Food Manufacturing	
U1	2041	Flour and Other Grain Mill Products	311211	Flour Milling	
	2043	Cereal Breakfast Foods			
		(cereal breakfast foods and related preparations except grain based coffee substitutes)	311230	Breakfast Cereal Manufacturing	
		(grain based coffee substitutes)	311920	Coffee and Tea Manufacturing	
	2044	Rice Milling	311212	Rice Milling	
	2045	Prepared Flour Mixes and Doughs	311822	Flour Mixes and Dough Manufacturing from Purchased Flour	
	2046	Wet Corn Milling			
		(except refining purchased corn oil)	311221	Wet Corn Milling	
		(refining purchased corn oil)	311225	Fats and Oils Refining and Blending	
	2047	Dog and Cat Food	311111	Dog and Cat Food Manufacturing	
	2048	Prepared Feeds and Feed Ingredients for Animals and Fowls, Except Dogs and Cats			
		(except slaughtering animals for pet food)	311119	Other Animal Food Manufacturing	
		(slaughtering animals for pet food)	311611	Animal (except Poultry) Slaughtering	
U3	2051	Bread and Other Bakery Products, Except Cookies and Crackers	311812	Commercial Bakeries	
	2052	Cookies and Crackers			
		(unleavened bread and soft pretzels)	311812	Commercial Bakeries	
		(except unleavened bread and pretzels)	311821	Cookie and Cracker Manufacturing	
		(hard pretzels and snack pretzels, except soft)	311919	Other Snack Food Manufacturing (pretzels, except soft)	
	2053	Frozen Bakery Products, Except Bread	311813	Frozen Cakes, Pies, and Other Pastries Manufacturing	
	2061	Cane Sugar, Except Refining	311311	Sugarcane Mills	
	2062	Cane Sugar Refining	311312	Cane Sugar Refining	
	2063	Beet Sugar	311313	Beet Sugar Manufacturing	
	2064	Candy and Other Confectionery Products			
		(chocolate confectionery)	311330	Confectionery Manufacturing from Purchased Chocolate	
		(nonchocolate confectionery)	311340	Nonchocolate Confectionery Manufacturing	
	2066	Chocolate and Cocoa Products			

		(except chocolate products, made from purchased chocolate)	311320	Chocolate and Confectionery Manufacturing from Cacao Beans	
		(chocolate products made from purchased chocolate)	311330	Confectionery Manufacturing from Purchased Chocolate	
	2067	Chewing Gum	311340	Nonchocolate Confectionery Manufacturing	
	2068	Salted and Roasted Nuts and Seeds	311911	Roasted Nuts and Peanut Butter Manufacturing	
U2	2074	Cottonseed Oil Mills			
		(cottonseed processing)	311223	Other Oilseed Processing	
		(processing purchased cottonseed oil)	311225	Fats and Oils Refining and Blending	
	2075	Soybean Oil Mills			
		(soybean processing, except edible soybean oil)	311222	Soybean Processing	
		(processing purchased soybean oil)	311225	Fats and Oils Refining and Blending	
	2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean			
		(oilseed processing)	311223	Other Oilseed Processing	
		(processing purchased vegetable and oilseed oils)	311225	Fats and Oils Refining and Blending	
	2077	Animal and Marine Fats and Oils			
		(animal fats and oils)	311613	Rendering and Meat Byproduct Processing	
		(canned marine fats and oils)	311711	Seafood Canning	
		(fresh and frozen marine fats and oils)	311712	Fresh and Frozen Seafood Processing	
	2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified			
		(processing soybean oil into edible cooking oils from soybeans crushed in the same establishment)	311222	Soybean Processing	
		(processing vegetable oils, except soybean, into edible cooking oils from oilseeds and vegetables crushed in the same establishment)	311223	Other Oilseed Processing	
		(except processing vegetable and soybean oils into edible oils from oilseeds and vegetables crushed in the same establishment)	311225	Fats and Oils Refining and Blending	
U3	2082	Malt Beverages			
		(malt extract)	311942	Spice and Extract Manufacturing	
		(except malt extract)	312120	Breweries	
	2083	Malt	311213	Malt Manufacturing	
	2084	Wines, Brandy and Brandy Spirits	312130	Wineries	
	2085	Distilled and Blended			

		Liquors			
		(apple jack)	312130	Wineries	
		(except apple jack)	312140	Distilleries	
	2086	Bottled and Canned Soft Drinks and Carbonated Water			
		(except bottled water)	312111	Soft Drink Manufacturing	
		(bottled water)	312112	Bottled Water Manufacturing	
	2087	Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified			
		(coffee flavoring and syrups)	311920	Coffee and Tea Manufacturing	
		(flavoring syrups and concentrates except coffee)	311930	Flavoring Syrup and Concentrate Manufacturing	
		(flavoring extracts and natural food colorings)	311942	Spice and Extract Manufacturing	
		(powered drink mix)	311999	All Other Miscellaneous Food Manufacturing	
	2091	Canned and Cured Fish and Seafoods	311711	Seafood Canning	
	2092	Prepared Fresh or Frozen Fish and Seafoods	311712	Fresh and Frozen Seafood Processing	
	2095	Roasted Coffee	311920	Coffee and Tea Manufacturing	
	2096	Potato Chips, Corn Chips, and Similar Snacks	311919	Other Snack Food Manufacturing	
	2097	Maufactured Ice	312113	Ice manufacturing	
	2098	Macaroni, Spaghetti, Vermicelli, and Noodles	311823	Dry Pasta Manufacturing	
	2099	Food Preparations, Not Elsewhere Classified			
		(rice, uncooked and packaged with other ingredients made in rice mills)	311212	Rice Milling	
		(marshmallow creme)	311340	Nonchocolate Confectionery Manufacturing	
		(bouillon and potatoes dried and packaged with other ingredients produced in dehydrating plants)	311423	Dried and Dehydrated Food Manufacturing	
		(dry pasta packaged with other ingredients made in dry pasta plants)	311823	Dry Pasta Manufacturing	
		(tortillas)	311830	Tortilla Manufacturing	
		(peanut butter)	311911	Roasted Nuts and Peanut Butter Manufacturing	
		(tea)	311920	Coffee and Tea Manufacturing	
		(vinegar, prepared dip)	311941	Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	
		(spices, dry dip mix, dry salad dressing mix, and seasoning mix)	311942	Spice and Extract Manufacturing	
		(perishable prepared food)	311991	Perishable Prepared Food Manufacturing	
		(except bouillon, marshmallow creme,	311999	All Other Miscellaneous Food Manufacturing	

		spices, peanut butter, perishable prepared foods, tortillas, tea and tea extracts, dry dip mix, prepared dips, dry salad dressing mix, seasoning mix, dried potatoes, pasta, and rice mixed with other ingredients in mills or dehydrating plants, reducing maple sap to maple syrup, wool grease, and vinegar)			
	2111	Cigarettes	**312221**	Cigarette Manufacturing	
	2121	Cigars	**312229**	Other Tobacco Product Manufacturing	
	2131	Chewing and Smoking Tobacco and Snuff	**312229**	Other Tobacco Product Manufacturing	
	2141	Tobacco Stemming and Redrying			
		(stemming and redrying tobacco)	**312210**	Tobacco Stemming and Redrying	
		(reconstituted tobacco)	**312229**	Other Tobacco Product Manufacturing	

Sector V. Textile Mills, Apparel, and Other Fabric Product Manufacturing					
Sub-sector	SIC Codes		NAICS Codes		Notes
V1	2211	Broadwoven Fabric Mills, Cotton	313210	Broadwoven Fabric Mills	
	2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	313210	Broadwoven Fabric Mills	
	2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)			
		(except finishing wool fabric without weaving wool fabric)	313210	Broadwoven Fabric Mills 2231	
		(wool broadwoven fabric finishing without weaving fabric)	313311	Broadwoven Fabric Finishing Mills	
		(wool fabric, except broadwoven, finishing without weaving fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	2241	Narrow Fabric and Other Smallwares Mills: Cotton, Wool, Silk and Manmade Fiber	313221	Narrow Fabric Mills	
	2251	Women's Full-Length and Knee-Length Hosiery, Except Socks			
		(dyeing and finishing sheer hosiery without knitting sheer hosiery)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
		(except dyeing and finishing sheer hosiery without knitting sheer hosiery)	315111	Sheer Hosiery Mills	
	2252	Hosiery, Not Elsewhere Classified			
		(dyeing and finishing hosiery , except sheer, without knitting hosiery)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
		(girls' full length and knee length sheer hosiery)	315111	Sheer Hosiery Mills	
		(except girls' full-length and knee-length sheer hosiery and dyeing and finishing hosiery without knitting hosiery)	315119	Other Hosiery and Sock Mills	
	2253	Knit Outerwear Mills			
		(dyeing and finishing knit outerwear without knitting outerwear)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
		(except bath and lounging robes and dying and finish without knitting garments)	315191	Outerwear Knitting Mills	
		(knitting bath or lounging robes)	315192	Underwear and Nightwear Knitting Mills	
	2254	Knit Underwear and Nightwear Mills			
		(dyeing and finishing underwear and nightwear without knitting garments)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	

		(except dyeing and finishing underwear and nightwear without knitting garments)	315192	Underwear and Nightwear Knitting Mills	
	2257	Weft Knit Fabric Mills			
		(except finishing without knitting weft fabric)	313241	Weft Knit Fabric Mills	
		(finishing weft fabric without knitting weft fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	2258	Weft Knit Fabric Mills			
		(except finishing without knitting weft fabric)	313241	Weft Knit Fabric Mills	
		(finishing weft fabric without knitting weft fabric)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	2259	Knitting Mills, Not Elsewhere Classified			
		(knitting weft fabric and fabricating textile products, such as bedspreads, curtains, or towels)	313241	Weft Knit Fabric Mills	
		(knitting lace or warp fabric and fabricating textile products, such as bedspreads, curtains, or towels)	313249	Other Knit Fabric and Lace Mills	
		(dyeing and finishing knit gloves and mittens without knitting gloves or mittens)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
		(knitting gloves and mittens)	315191	Outerwear Knitting Mills	
		(knitting girdles and allied foundation garments)	315192	Underwear and Nightwear Knitting Mills	
	2261	Finishers of Broadwoven Fabrics of Cotton	313311	Broadwoven Fabric Finishing Mills	
	2262	Finishers of Broadwoven Fabrics of Manmade Fibers and Silk	313311	Broadwoven Fabric Finishing Mills	
	2269	Finishers of Textiles, Not Elsewhere Classified			
		(linen fabric finishing)	313311	Broadwoven Fabric Finishing Mills	
		(except linen fabric finishing)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	2273	Carpets and Rugs	314110	Carpet and Rug Mills	
	2281	Yarn Spinning Mills	313111	Yarn Spinning Mills	
	2282	Yarn Texturizing, Throwing, Twisting and Spinning Mills	313112	Yarn Texturizing, Throwing, Twisting Mills	
	2284	Thread Mills			
		(except finishing thread without manufacturing thread)	313113	Thread Mills	
		(finishing thread without manufacturing thread)	313312	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
	2295	Coated Fabrics, Not	313320	Fabric Coating Mills	

		Rubberized			
	2296	Tire Cord and Fabrics	**314992**	Tire Cord and Tire fabric Mills	
	2297	Nonwoven Fabrics	**313230**	Nonwoven Fabric Mills	
	2298	Cordage and Twine			
		(hemp rope made in spinning mills)	**313111**	Yarn Spinning Mills	
		(except hemp rope made in spinning mills)	**314991**	Rope, Cordage, and Twine Mills	
	2299	Textile Goods, Not Elsewhere Classified			
		(hemp bags made in spinning mills, & spinning yarn of flax, hemp, jute, and ramie)	**313111**	Yarn Spinning Mills	
		(manufacturing thread of hemp, linen, and ramie)	**313113**	Thread Mills	
		(broadwoven fabrics of jute, linen, hemp, and ramie and hand woven fabrics)	**313210**	Broadwoven Fabric Mills	
		(narrow woven fabric of jute, linen, hemp, and ramie)	**313221**	Narrow Fabric Mills	
		(nonwoven felt)	**313230**	Nonwoven Fabric Mills	
		(finishing hard fiber thread and yarn without manufacturing thread or yarn)	**313312**	Textile and Fabric Finishing (except Broadwoven Fabric) Mills	
		(manufacturing other textile products)	**314999**	All Other Miscellaneous Textile Product Mills	
	2311	Men's and Boys' Suits, Coats, and Overcoats			
		(contractors)	**315211**	Men's and Boys' Cut and Sew Apparel Contractors	
		(except contractors)	**315222**	Men's and Boys' Cut and Sew Suit, Coat and Overcoat Manufacturing	
	2321	Men's and Boys' Shirts, Except Work Shirts			
		(contractors)	**315211**	Men's and Boys' Cut and Sew Apparel Contractors	
		(except contractors)	**315223**	Men's and Boys' Cut and Sew Shirt (except Work Shirt) Manufacturing	
	2322	Men's and Boys' Underwear and Nightwear			
		(contractors)	**315211**	Men's and Boys' Cut and Sew Apparel Contractors	
		(except contractors)	**315221**	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
	2323	Men's and Boys' Neckwear			
		(contractors)	**315211**	Men's and Boys' Cut and Sew Apparel Contractors	
		(except contractors)	**315993**	Men's and Boys' Neckwear Manufacturing	
	2325	Men's and Boys' Separate Trousers and Slacks			
		(contractors)	**315211**	Men's and Boys' Cut and Sew	

				Apparel Contractors	
		(except contractors)	315224	Men's and Boys' Cut and Sew Trouser, Slack and Jean Manufacturing	
	2326	Men's and Boys' Work Clothing			
		(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(except contractors)	315225	Men's and Boys' Cut and Sew Work Clothing Manufacturing	
	2329	Men's and Boys' Clothing, Not Elsewhere Classified			
		(contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(except team athletic uniforms and contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
		(team athletic uniforms except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
	2331	Women's, Misses', and Juniors' Blouses and Shirts			
		(contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315232	Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing	
	2335	Women's, Misses', and Juniors' Dresses			
		(contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315233	Women's and Girls' Cut and Sew Dress Manufacturing	
	2337	Women's, Misses', and Juniors' Suits, Skirts, and Coats			
		(contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing	
	2339	Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified			
		(contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except team athletic uniforms, scarves, and contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
		(team athletic uniforms except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
		(scarves except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
	2341	Women's, Misses', Children's, and Infants'			

		Underwear and Nightwear			
		(boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(boys' except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
		(women and girls' except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
		(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
	2342	Brassieres, Girdles, and Allied Garments			
		(contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
	2353	Hats, Caps, and Millinery			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315991	Hat, Cap, and Millinery Manufacturing	
	2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts			
		(boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(girls' and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(boys' shirts except contractors)	315223	Men's and Boys' Cut and Sew Shirt (except Work Shirt) Manufacturing	
		(girls' blouses and shirts except contractors)	315232	Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing	
		(girls' dresses except contractors)	315233	Women's and Girls' Cut and Sew Dress Manufacturing	
		(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
	2369	Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified			
		(boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(girls' and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(boys' robes except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
		(boys' suits and coats	315222	Men's and Boys' Cut and Sew	

		except contractors)		Suit, Coat, and Overcoat Manufacturing	
		(boys' trousers, slacks, and jeans except contractors)	315224	Men's and Boys' Cut and Sew Trouser, Slack and Jean Manufacturing	
		(boys' other outerwear except contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
		(girls' robes except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
		(girls' suits, coats, jackets, and skirts except contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing	
		(girls' other outerwear except contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
		(infants' except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
	2371	Fur Goods			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315292	Fur and Leather Apparel Manufacturing	
	2381	Dress and Work Gloves, Except Knit and All-Leather			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315992	Glove and Mitten Manufacturing	
	2384	Robes and Dressing Gowns			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(men's except contractors)	315221	Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	
		(women's except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
	2385	Waterproof Outerwear			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(men's and boys' water resistant or water repellent tailored overcoats, except made from rubberized	315222	Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing	

		fabric, plastics, etc. and contractors)			
		(men's and boys' water resistant or water repellent nontailored outerwear, except made from rubberized fabric, plastics, etc. and contractors)	315228	Men's and Boys' Cut and Sew Other Outerwear Manufacturing	
		(women's and girls' water resistant or water repellent tailored coats, except made from rubberized fabric, plastics, etc. and contractors)	315234	Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing"	
		(other women's and girls' water resistant or water repellent nontailored outerwear, except made from rubberized fabric, plastics, etc. and contractors)	315239	Women's and Girls' Cut and Sew Other Outerwear Manufacturing	
		(infants' waterproof outerwear made from rubberized fabric, plastics, etc. except contractors)	315291	Infants' Cut and Sew Apparel Manufacturing	
		(men's, boys', women's, and girls' waterproof outerwear made from rubberized fabric, plastics, etc. except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
		(accessories, such as aprons, bibs, and other miscellaneous waterproof items, made from rubberized fabric, plastics, etc. except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
	2386	Leather and Sheep-Lined Clothing			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315292	Fur and Leather Apparel Manufacturing	
	2387	Apparel Belts			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
	2389	Apparel and Accessories, Not Elsewhere Classified			
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	

		(garters and garter belts except contractors)	315231	Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing	
		(apparel, such as academic gowns, clerical outerwear, and band uniforms, except contractors)	315299	All Other Cut and Sew Apparel Manufacturing	
		(accessories such as, handkerchiefs, arm bands, cummerbunds, suspenders, etc., except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
	2391	Curtains and Draperies	314121	Curtain and Drapery Mills	
	2392	Housefurnishings, Except Curtains and Draperies			
		(except mops, dust rags, and bags)	314129	Other Household Textile Product Mills	
		(blanket, laundry, and wardrobe bags)	314911	Textile Bag Mills	
		(dust rags)	314999	All Other Miscellaneous Textile Product Mills	
		(floor and dust mops)	339994	Broom, Brush, and Mop Manufacturing	
	2393	Textile Bags	314911	Textile Bag Mills	
	2394	Canvas and Related Products	314912	Canvas and Related Product Mills	
	2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade			
		(except apparel contractors)	314999	All Other Miscellaneous Textile Product Mills	
		(men's and boy's apparel contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' apparel contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
	2396	Automotive Trimmings, Apparel Findings, and Related Products			
		(textile products except automotive and apparel trimmings and findings, printing or embossing on apparel, and contractors)	314999	All Other Miscellaneous Textile Product Mills	
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(apparel findings and trimmings, except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
		(printing and embossing on fabric articles)	323113	Commercial Screen Printing	
		(textile motor vehicle trimming except contractors)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
	2397	Schiffli Machine Embroideries	313222	Schiffli Machine Embroidery	
	2399	Fabricated Textile			

ATTACHMENT A – SECTOR CODES

		Products, Not Elsewhere Classified			
		(except apparel and accessories, automotive seat belts, seat and tire covers, and contractors)	314999	All Other Miscellaneous Textile Product Mills	
		(men's and boys' contractors)	315211	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	315212	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(apparel and apparel accessories, except contractors)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
		(seat belts, and seat and tire covers)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
	3131	Boot and Shoe Cut Stock and Findings			
		(except wood heels and metal buckles)	316999	All Other Leather Good Manufacturing	
		(heels, boot and shoe, finished wood, manufacturing)	321999	All Other Miscellaneous Wood Product Manufacturing	A facility with the primary activity of NAICS 321999 "heels, boot and shoe, finished wood, manufacturing" can be regulated under Sector A or Sector V. Sector A requires additional technology-based effluent limits comprising good housekeeping; additional SWPPP requirements; additional inspection requirements; and benchmark monitoring for COD and TSS. Sector V requires additional technology-based effluent limits comprised of good housekeeping measures and employee training; additional SWPPP requirements; and additional inspection requirements. Regulatory burden would likely be greater under Sector A.
		(metal buckles)	339993	Fastener, Button, Needle, and Pin Manufacturing	Any facility whose primary activity is manufacturing metal buckles (SIC 3131 / NAICS 339993) should be regulated under Sector Y, but may continue to be regulated under Sector V, or alternatively, under Sector AD. Sector Y does not apply additional sector-specific requirements to metal buckle manufacturers.

					Sector V applies additional technology-based limitations comprised of good housekeeping measures for material storage areas and employee training. Under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would likely be greater under Sector V.
	3142	House Slippers	**316212**	House Slipper Manufacturing	
	3143	Men's Footwear, Except Athletic	**316213**	Men's Footwear (except Athletic) Manufacturing	
	3144	Women's Footwear, Except Athletic	**316214**	Women's Footwear (except Athletic) Manufacturing	
	3149	Footwear, Except Rubber, Not Elsewhere Classified	**316219**	Other Footwear Manufacturing	
	3151	Leather Gloves and Mittens			
		(men's and boys' contractors)	**315211**	Men's and Boys' Cut and Sew Apparel Contractors	
		(women's, girls', and infants' contractors)	**315212**	Women's, Girls', and Infants' Cut and Sew Apparel Contractors	
		(except contractors)	**315992**	Glove and Mitten Manufacturing	
	3161	Luggage	**316991**	Luggage Manufacturing	
	3171	Women's Handbags and Purses	**316992**	Women's Handbag and Purse Manufacturing	
	3172	Personal Leather Goods, Except Women's Handbags and Purses			
		(except nonprecious metal personal goods, such as card cases, cigar cases, and comb cases)	**316993**	Personal Leather Good (except Women's Handbag and Purse) Manufacturing	
		(nonprecious metal personal goods, such as card cases, cigar cases, and comb cases)	**339914**	Costume Jewelry and Novelty Manufacturing	Any facility whose primary activity is manufacturing nonprecious metal personal goods, such as card cases, cigar cases, and comb cases (SIC 3172 / NAICS 339914) should be regulated under Sector Y, but may continue to be regulated under Sector V, or alternatively, under Sector AD. Sector Y does not apply additional sector-specific requirements to metal buckle manufacturers. Sector V applies additional technology-

					based limitations comprised of good housekeeping measures for material storage areas and employee training. Under Sector AD EPA could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would likely be greater under Sector V.
	3199	Leather Goods, Not Elsewhere Classified	**316999**	All Other Leather Good Manufacturing	

Sector W. Furniture and Fixtures					
Sub-sector	SIC Codes		NAICS Codes		Notes
W1	2434	Wood Kitchen Cabinets	337110	Wood Kitchen Cabinet and Countertop Manufacturing	
	2511	Wood Household Furniture, Except Upholstered			
		(except wood box spring frames)	337122	Nonupholstered Wood Household Furniture Manufacturing	
		(wood box spring frames (parts))	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2512	Wood Household Furniture, Upholstered	337121	Upholstered Household Furniture Manufacturing	
	2514	Metal Household Furniture			
		(upholstered)	337121	Upholstered Household Furniture Manufacturing	
		(except upholstered metal furniture and metal box spring frames)	337124	Metal Household Furniture Manufacturing	
		(metal box spring frames)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	2515	Mattresses, Foundations, and Convertible Beds			
		(convertible beds)	337121	Upholstered Household Furniture Manufacturing	
		(mattresses and foundations)	337910	Mattress Manufacturing	
	2517	Wood, Television, Radio, Phonograph, and Sewing Machine Cabinets	337129	Wood, Television, Radio, Phonograph, and Sewing Machine Cabinet Manufacturing	
	2519	Household Furniture, Not Elsewhere Classified	337125	Household Furniture (except Wood and Metal) Manufacturing	
	2521	Wood Office Furniture	337211	Wood Office Furniture Manufacturing	
	2522	Office Furniture, Except Wood	337214	Office Furniture (Except Wood) Manufacturing	
	2531	Public Building and Related Furniture			
		(seats for motor vehicles)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
		(except motor vehicle seats and blackboards)	337127	Institutional Furniture Manufacturing	
		(blackboards)	339942	Lead Pencil and Art Good Manufacturing	
	2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers			
		(counter tops)	337110	Wood Kitchen Cabinet and Countertop Manufacturing	
		(wood lunchroom tables and chairs)	337127	Institutional Furniture Manufacturing	
		(custom architectural millwork)	337212	Custom Architectural Woodwork and Millwork Manufacturing	
		(except custom architectural millwork,	337215	Showcase, Partition, Shelving, and Locker Manufacturing	

		counter tops, and lunchroom tables and chairs)			
	2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood			
		(lunchroom tables and chairs)	**337127**	Institutional Furniture Manufacturing	
		(except lunchroom tables and chairs)	**337215**	Showcase, Partition, Shelving, and Locker Manufacturing	
	2591	Drapery Hardware and Window Blinds and Shades	**337920**	Blind and Shade Manufacturing	
	2599	Furniture and Fixtures, Not Elsewhere Classified			
		(except hospital beds)	**337127**	Institutional Furniture Manufacturing	
		(hospital beds)	**339111**	Laboratory Apparatus and Furniture Manufacturing	

Sector X. Printing and Publishing					
Sub-sector	SIC Codes		NAICS Codes		Notes
X1	2711	Newspapers: Publishing, or Publishing and Printing (except Internet newspaper publishing)	511110	Newspaper Publishers	
	2721	Periodicals: Publishing, or Publishing and Printing (except Internet periodical publishing)	511120	Periodical Publishers	
	2731	Books: Publishing, or Publishing and Printing (except Internet book publishing)			
		(except music books)	511130	Book Publishers	
		(music books)	512230	Music Publishers	
	2732	Book Printing	323117	Book Printing	
	2741	Miscellaneous Publishing (except Internet publishers)			
		(shopping news and advertising periodical publishing or publishing and printing except Internet)	511120	Periodical Publishers	
		(technical manuals and books publishing or publishing and printing, except Internet)	511130	Book Publishers	
		(directory publishers, except Internet publishers)	511140	Directory and Mailing List Publishers	
		(except database, advertising periodicals, shopping news, technical manuals and books, and sheet music publishing or publishing and printing)	511199	All Other Publishers	
		(sheet music publishing or publishing and printing)	512230	Music Publishers	
	2752	Commercial Printing, Lithographic			
		(except quick printing)	323110	Commercial Lithographic Printing	
		(quick printing)	323114	Quick Printing	
	2754	Commercial Printing, Gravure	323111	Commercial Gravure Printing	
	2759	Commercial Printing, NEC			
		(flexographic printing)	323112	Commercial Flexographic Printing	
		(screen printing)	323113	Commercial Screen Printing	
		(digital printing, except quick printing)	323115	Digital Printing	
		(other commercial printing except flexographic, screen, digital, and quick printing)	323119	Other Commercial Printing	
	2771	Greeting Cards (except Internet greeting card publishers)			

		(lithographic printing of greeting cards)	323110	Commercial Lithographic Printing	
		(gravure printing of greeting cards)	323111	Commercial Gravure Printing	
		(flexographic printing of greeting cards)	323112	Commercial Flexographic Printing	
		(screen printing of greeting cards)	323113	Commercial Screen Printing	
		(other printing of greeting cards)	323119	Other Commercial Printing	
		(publishing greeting cards)	511191	Greeting Card Publishers	
	2782	Blankbooks, Looseleaf Binders and Devices			
		(checkbooks)	323116	Manifold Business Form Printing	
		(except checkbooks)	323118	Blankbook, Loose-leaf Binder, and Device Manufacturing	
	2789	Bookbinding and Related Work	323121	Tradebinding and Related Work	
	2791	Typesetting	323122	Prepress Services	
	2796	Platemaking and Related Services	323122	Prepress Services	

Sector Y. Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries					
Sub-sector	SIC Codes		NAICS Codes		Notes
Y1	3011	Tires and Inner Tubes	326211	Tire Manufacturing (except Retreading)	
	3021	Rubber and Plastics Footwear	316211	Rubber and Plastics Footwear Manufacturing	
	3052	Rubber and Plastics Hose and Belting	326220	Rubber and Plastics Hoses and Belting Manufacturing	
	3053	Gaskets, Packing, and Sealing Devices	339991	Gaskets, Packing, and Sealing Device Manufacturing	
	3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods	326291	Rubber Product Manufacturing for Mechanical Use	
	3069	Fabricated Rubber Products, Not Elsewhere Classified			
		(rubberizing fabric or purchased textile products)	313320	Fabric Coating Mills	
		(bags made from rubberized fabric)	314911	Textile Bag Mills	
		(rubber cut and sew outerwear)	315299	All Other Cut and Sew Apparel Manufacturing	
		(bibs, bathing caps, related rubber accessories)	315999	Other Apparel Accessories and Other Apparel Manufacturing	
		(rubber resilient floor coverings)	326192	Resilient Floor Covering Manufacturing	
		(except rubberized fabric and garments, gloves, life vests, wet suits, accessories, such as bibs and bathing caps, rubber toys, bags made from rubberized fabric, rubber diaper covers, and rubber resilient floor coverings)	326299	All Other Rubber Product Manufacturing	
		(rubber gloves, inflatable rubber life jackets)	339113	Surgical and Appliance and Supplies Manufacturing	
		(wet suits)	339920	Sporting and Athletic Goods Manufacturing	
		(rubber toys, except dolls)	339932	Game, Toy, and Children's Vehicle Manufacturing	
Y2	3081	Unsupported Plastics Film and Sheet	326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing	
	3082	Unsupported Plastics Profile Shapes	326121	Unlaminated Plastics Profile Shape Manufacturing	
	3083	Laminated Plastics Plate, Sheet, and Profile Shapes	326130	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing	
	3084	Plastics Pipe	326122	Plastics Pipe and Pipe Fitting Manufacturing	
	3085	Plastics Bottles	326160	Plastics Bottle Manufacturing	
	3086	Plastics Foam Products			
		(polystyrene foam products)	326140	Polystyrene Foam Product Manufacturing	

		(except polystyrene foam products)	326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing	
	3087	Custom Compounding of Purchased Plastics Resins	325991	Custom Compounding of Purchased Resins	
	3088	Plastics Plumbing Fixtures	326191	Plastics Plumbing Fixture Manufacturing	
	3089	Plastics Products, Not Elsewhere Classified			
		(plastics sausage casings)	326121	Unlaminated Plastics Profile Shape Manufacturing	
		(pipe fittings)	326122	Plastics Pipe and Pipe Fitting Manufacturing	
		(except plastics pipe fittings, inflatable plastics life jackets, plastics furniture parts, and plastics sausage casings)	326199	All Other Plastics Product Manufacturing	
		(finished plastic furniture parts)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
		(inflatable plastic life jackets)	339113	Surgical Appliance and Supplies Manufacturing	
	3931	Musical Instruments	339992	Musical Instrument Manufacturing	
	3942	Dolls and Stuffed Toys	339931	Doll and Stuffed Toy Manufacturing	
	3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles			
		(metal tricycles)	336991	Motorcycle, Bicycle, and Parts Manufacturing	Any facility whose primary activity is manufacturing metal tricycles (SIC 3944 / NAICS 336991) should be regulated under Sector AB, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AB applies additional SWPPP requirements. Sector Y does not apply additional sector-specific requirements to metal tricycle manufacturers and under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector AB.
		(except metal tricycles)	339932	Game, Toy, and Children's Vehicle Manufacturing	
	3949	Sporting and Athletic Goods, Not Elsewhere Classified	339920	Sporting and Athletic Goods Manufacturing	
	3951	Pens, Mechanical Pencils, and Parts	339941	Pens, Mechanical Pencil Manufacturing	

	3953	Marking Devices	339943	Marking Device Manufacturing	
	3955	Carbon Paper and Inked Ribbons	339944	Carbon Paper and Inked Ribbon Manufacturing	
	3961	Costume Jewelry and Costume Novelties, Except Precious Metal			
		(except cuff links)	339914	Costume Jewelry and Novelty Manufacturing	
		(nonprecious cuff links)	339993	Fastener, Button, Needle, and Pin Manufacturing	
	3965	Fasteners, Buttons, Needles, and Pins	339993	Fastener, Button, Needle, and Pin Manufacturing	
	3991	Brooms and Brushes	339994	Broom, Brush, and Mop Manufacturing	
	3993	Signs and Advertising Specialties			
		(screen printing purchased advertising specialties[34])	323113	Commercial Screen Printing	Any facility whose primary activity is screen printing purchased advertising specialties (SIC 3993 / NAICS 323113) should be regulated under Sector X, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector X applies additional technology-based effluent limits comprised of good housekeeping measures for material storage areas, and additional SWPPP requirements. Sector Y does not apply additional requirements to these facilities and under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector X.
		(signs)	339950	Sign Manufacturing	
	3995	Burial Caskets	339995	Burial Casket Manufacturing	
	3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified	326192	Resilient Floor Covering Manufacturing	
	3999	Manufacturing Industries, Not Elsewhere Classified			
		(fur dressing and finishing)	316110	Leather and Hide Tanning and Finishing	Any facility whose primary activity is fur dressing and finishing (SIC 3999 / NAICS 316110) should be regulated under Sector Z, but may continue to be regulated under Sector Y,

					or alternatively, under Sector AD. Sector Z applies additional technology-based effluent limits comprised of good housekeeping measures for material storage areas and handling areas, and additional SWPPP requirements. Sector Y does not apply additional requirements to these facilities and under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector Z.
		(burnt wood articles)	**321999**	All Other Miscellaneous Wood Product Manufacturing	Any facility whose primary activity is burnt wood articles (SIC 3999 / NAICS 321999) should be regulated under Sector A, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector A applies additional technology-based effluent limits comprised of good housekeeping measures, additional SWPPP requirements, and benchmark monitoring for COD and TSS. Sector Y does not apply additional requirements to these facilities and under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector A.
		(matches and match books manufacturing)	**325998**	All Other Miscellaneous Chemical Product and Preparation Manufacturing	Any facility whose primary activity is matches and match books manufacturing (SIC 3999 / NAICS 325998) should be regulated under Sector C, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sectors C and Y do not require

					additional sector-specific requirements. The Department could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden is not expected to differ between Sectors C and Y.
		(plastics products such as combs, hair curlers, etc.)	**326199**	All Other Plastics Product Manufacturing	
		(hand operated hair clippers for humans)	**332211**	Cutlery and Flatware (except Precious) Manufacturing	Any facility whose primary activity is manufacturing hand operated hair clippers for humans (SIC 3999 / NAICS 332211) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. The Department could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(tape measures)	**332212**	Hand and Edge Tool Manufacturing	Any facility whose primary activity is manufacturing tape measures (SIC 3999 / NAICS 332212) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good

					housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. The Department could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(flocking metal products for the trade)	**332812**	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	Any facility whose primary activity is manufacturing flocking metal products for the trade (SIC 3999 / NAICS 332812) should be regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. The Department could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(other miscellaneous metal products, such as combs, hair curlers, etc.)	**332999**	All Other Miscellaneous Fabricated Metal Product Manufacturing	Any facility whose primary activity is manufacturing other miscellaneous metal products, such as combs, hair curlers, etc. (SIC 3999 / NAICS 332999) should be

					regulated under Sector AA, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprised of good housekeeping measures, spill prevention and response procedures, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector Y does not require additional sector-specific requirements. The Department could establish additional facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(beauty and barber shop equipment, except chairs)	**333319**	Other Commercial and Service Industry Machinery Manufacturing	
		(lamp shades of paper or textile)	**335121**	Residential Electric Lighting Fixture Manufacturing	
		(electric hair clippers for humans)	**335211**	Electric Housewares and Household Fan Manufacturing	Any facility whose primary activity is manufacturing electric hair clippers for humans (SIC 3999 / NAICS 335211) should be regulated under Sector AC, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sectors Y and AC do not apply sector-specific requirements to facilities manufacturing electric hair clippers for humans. The Department may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden is not expected to differ between Sectors Y and AC.
		(beauty and barber chairs)	**337127**	Institutional Furniture Manufacturing	Any facility whose primary activity is manufacturing beauty and barber chairs (SIC 3999 / NAICS

					337127) should be regulated under Sector W, but may continue to be regulated under Sector Y, or alternatively, under Sector AD. Sector W applies additional SWPPP requirements to facilities manufacturing beauty and barber chairs. Sector Y applies no additional requirements and under Sector AD the Department could establish additional facility-specific monitoring and reporting requirements. Regulatory burden would be greater under Sector W.
		(embroidery kits)	**339932**	Game, Toy, and Children's Vehicle Manufacturing	
		(other miscellaneous products not specially provided for previously)	**339999**	All Other Miscellaneous Manufacturing	

Sector Z. Leather Tanning and Finishing					
Sub-sector	SIC Codes		NAICS Codes		Notes
Z1	3111	Leather Tanning and Finishing	316110	Leather and Hide Tanning and Finishing	

Sector AA. Fabricated Metal Products					
Sub-sector	SIC Codes		NAICS Codes		Notes
AA1	3411	Metal Cans	332431	Metal Can Manufacturing	
	3412	Metal Shipping Barrels, Drums, Kegs, and Pails	332439	Other Metal Container Manufacturing	
	3421	Cutlery			
		(except hedge shears and trimmers, tinners' snips, and similar nonelectric hand tools)	332211	Cutlery and Flatware (except Precious) Manufacturing	
		(hedge shears and trimmers, tinners snips, and similar nonelectric hand tools)	332212	Hand and Edge Tool Manufacturing	
	3423	Hand and Edge Tools, Except Machine Tools and Handsaws	332212	Hand and Edge Tool Manufacturing	
	3425	Saw Blades and Handsaws	332213	Saw Blade and Handsaw Manufacturing	
	3429	Hardware, Not Elsewhere Classified			
		(vacuum and insulated bottles, jugs, and chests)	332439	Other Metal Container Manufacturing	
		(except fire hose nozzles, hose couplings, vacuum and insulated bottles, jugs and chests, fireplace fixtures, time locks, turnbuckles, pulleys, tackle blocks, luggage and utility racks, sleep sofa mechanisms and chair glides, traps, handcuffs and leg irons, ladder jacks, and other like metal products)	332510	Hardware Manufacturing	
		(turnbuckles and hose clamps)	332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	
		(fire hose nozzles and hose couplings)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
		(fireplace fixtures, traps, handcuffs and leg irons, ladder jacks, and other like metal products)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(pulleys, tackle blocks, block and tackle assemblies)	333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing	
		(time locks)	334518	Watch, Clock, and Part Manufacturing	
		(luggage and utility racks)	336399	All Other Motor Vehicle Parts Manufacturing	
		(sleep sofa mechanisms and chair glides)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	3431	Enameled Iron and Metal Sanitary Ware	332998	Enameled Iron and Metal Sanitary Ware Manufacturing	
	3432	Plumbing Fixture Fittings and Trim			
		(except shower rods, lawn hose nozzles, and lawn	332913	Plumbing Fixture Fitting and Trim Manufacturing	

		sprinklers)			
		(lawn hose nozzles and lawn sprinklers)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
		(metal shower rods)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
	3443	Fabricated Plate Work (Boiler Shops)			
		(fabricated plate work and metal weldments)	332313	Plate Work Manufacturing	
		(power boilers and heat exchangers)	332410	Power Boiler and Heat Exchanger Manufacturing	
		(heavy gauge tanks)	332420	Metal Tank (Heavy Gauge) Manufacturing	
		(metal cooling towers)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing (metal cooling towers)	
	3444	Sheet Metal Work			
		(stamped metal skylights)	332321	Metal Window and Door Manufacturing	
		(except sheet metal bins and vats, skylights, and sheet metal cooling towers)	332322	Sheet Metal Work Manufacturing	
		(metal bins and vats)	332439	Other Metal Container Manufacturing	
		(cooling towers, sheet metal)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
	3446	Architectural and Ornamental Ironwork	332323	Ornamental and Architectural Metal Work Manufacturing	
	3448	Prefabricated Metal Buildings and Components	332311	Prefabricated Metal Building and Component Manufacturing	
	3449	Miscellaneous Structural Metal Work			
		(custom roll forming)	332114	Custom Roll Forming	
		(fabricated bar joists and concrete reinforcing bars)	332312	Fabricated Structural Metal Manufacturing	
		(curtain wall and metal plaster bases and lath)	332323	Ornamental and Architectural Metal Work Manufacturing	
	3451	Screw Machine Products	332721	Precision Turned Product Manufacturing	
	3452	Bolts, Nuts, Screws, Rivets, and Washers	332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	
	3462	Iron and Steel Forgings	332111	Iron and Steel Forging	
	3463	Nonferrous Forgings	332112	Nonferrous Forging	
	3465	Automotive Stampings	336370	Motor Vehicle Metal Stamping	
	3466	Crowns and Closures	332115	Crown and Closure Manufacturing	
	3469	Metal Stampings, Not Elsewhere Classified			
		(except kitchen utensils, pots and pans for cooking, coins, and stamped metal	332116	Metal Stamping	

		boxes)			
		(kitchen utensils, pots, and pans for cooking)	332214	Kitchen Utensil, Pot, and Pan Manufacturing	
		(stamped metal tool, cash, mail, and lunch boxes)	332439	Other Metal Container Manufacturing	
	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	
AA2	3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified			
		(except jewelry, silverware, and flatware engraving and etching)	332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers	
		(precious metal jewelry engraving and etching)	339911	Jewelry (except Costume) Manufacturing	
		(silver and plated ware engraving and etching)	339912	Silverware and Holloware Manufacturing	
		(costume jewelry engraving and etching)	339914	Costume Jewelry and Novelty Manufacturing	
AA1	3482	Small Arms Ammunition	332992	Small Arms Ammunition Manufacturing	
	3483	Ammunition, Except for Small Arms	332993	Ammunition (except for Small Arms) Manufacturing	
	3484	Small Arms	332994	Small Arms Manufacturing	
	3489	Ordinance and Accessories, Not Elsewhere Classified	332995	Other Ordinance and Accessories Manufacturing	
	3491	Industrial Valves	332911	Industrial Valve Manufacturing	
	3492	Fluid Power Valves and Hose Fittings	332912	Fluid Power Valve and Hose Fitting Manufacturing	
	3493	Steel Springs, Except Wire	332611	Spring (Heavy Gauge) Manufacturing	
	3494	Valves and Pipe Fittings, Not Elsewhere Classified			
		(except metal pipe hangers and supports)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
		(metal pipe hangers and supports)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
	3495	Wire Springs			
		(except watch and clock springs)	332612	Spring (Light Gauge) Manufacturing	
		(clock and watch springs)	334518	Watch, Clock, and Part Manufacturing	
	3496	Miscellaneous Fabricated Wire Products			
		(potato mashers)	332214	Kitchen Utensil, Pot, and Pan Manufacturing	
		(except shopping carts and potato mashers)	332618	Other Fabricated Wire Product Manufacturing	
		(shopping carts made from purchased wire)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
	3497	Metal Foil and Leaf			
		(laminated aluminum foil rolls and sheets for flexible packaging uses)	322225	Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses	
		(foil and foil containers)	332999	All Other Miscellaneous	

ATTACHMENT A – SECTOR CODES

				Fabricated Metal Product Manufacturing	
	3498	Fabricated Pipe and Pipe Fittings	332996	Fabricated Pipe and Pipe Fitting Manufacturing	
	3499	Fabricated Metal Products, Not Elsewhere Classified			
		(powder metallurgy)	332117	Powder Metallurgy Part Manufacturing	
		(metal boxes)	332439	Other Metal Container Manufacturing	
		(safe and vault locks)	332510	Hardware Manufacturing	
		(metal aerosol valves)	332919	Other Metal Valve and Pipe Fitting Manufacturing	
		(other metal products)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(metal automobile seat frames)	336360	Motor Vehicle Seating and Interior Trim Manufacturing	
		(metal furniture frames)	337215	Showcase, Partition, Shelving, and Locker Manufacturing	
	3911	Jewelry, Precious Metal	339911	Jewelry (except Costume) Manufacturing	
	3914	Silverware, Plated Ware, and Stainless Steel Ware			
		(cutlery and flatware, nonprecious and precious plated)	332211	Cutlery and Flatware (except Precious) Manufacturing	
		(precious metal plated hollowware)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(except nonprecious and precious plated metal cutlery, flatware, and hollowware)	339912	Silverware and Holloware Manufacturing	
	3915	Jewelers Findings and Materials and Lapidary Work			
		(watch jewels)	334518	Watch, Clock, and Part Manufacturing	Any facility whose primary activity is manufacturing watch jewels (SIC 3915 / NAICS 334518) should be regulated under Sector AC, but may continue to be regulated under Sector AA, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and the Department may

					establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(except watch jewels)	**339913**	Jewelers' Material and Lapidary Work Manufacturing	

Sector AB. Transportation Equipment, Industrial or Commercial Machinery					
Sub-sector	SIC Codes		NAICS Codes		Notes
AB1	3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	333611	Turbine and Turbine Generator Set Units Manufacturing	
	3519	Internal Combustion Engines, Not Elsewhere Classified			
		(except stationary engine radiators)	333618	Other Engine Equipment Manufacturing	
		(stationary engine radiators)	336399	All Other Motor Vehicle Parts Manufacturing	
	3523	Farm Machinery and Equipment			
		(hand hair clippers for animals)	332212	Hand and Edge Tool Manufacturing	
		(corrals, stalls, and holding gates)	332323	Ornamental and Architectural Metal Work Manufacturing	
		(except corrals, stalls, holding gates, hand clippers for animals, and farm conveyors/elevators)	333111	Farm Machinery and Equipment Manufacturing	
		(farm conveyors and elevators)	333922	Conveyor and Conveying Equipment Manufacturing	
	3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment			
		(nonpowered lawnmowers)	332212	Hand and Edge Tool Manufacturing	
		(except nonpowered lawnmowers)	333112	Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing	
	3531	Construction Machinery and Equipment			
		(except railway track maintenance equipment; winches, aerial work platforms; and automotive wrecker hoists)	333120	Construction Machinery Manufacturing	
		(winches, aerial work platforms, automobile wrecker hoists, locomotive cranes, and ship cranes)	333923	Overhead Traveling Crane, Hoist, and Monorail System Manufacturing	
		(railway track maintenance equipment)	336510	Railroad Rolling Stock Manufacturing	
	3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	333131	Mining Machinery and Equipment Manufacturing	
	3533	Oil and Gas Field Machinery and Equipment	333132	Oil and Gas Field Machinery and Equipment Manufacturing	
	3534	Elevators and Moving Stairways	333921	Elevators and Moving Stairway Manufacturing	
	3535	Conveyors and Conveying Equipment	333922	Conveyors and Conveying Equipment Manufacturing	
	3536	Overhead Traveling	333923	Overhead Traveling Cranes,	

		Cranes, Hoists, and Monorail Systems		Hoists, and Monorail System Manufacturing	
	3537	Industrial Trucks, Tractors, Trailers, and Stackers			
		(metal air cargo containers)	332439	Other Metal Container Manufacturing	
		(metal pallets)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(except metal pallets and metal air cargo containers)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
	3541	Machine Tools, Metal Cutting Types	333512	Machine Tool (Metal Cutting Types) Manufacturing	
	3542	Machine Tools, Metal Forming Types	333513	Machine Tool (Metal Forming Types) Manufacturing	
	3543	Industrial Patterns	332997	Industrial Pattern Manufacturing	
	3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds			
		(industrial molds)	333511	Industrial Mold Manufacturing	
		(except molds)	333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing	
	3545	Cutting Tools, Machine Tool Accessories, and Machinist Precision Measuring Devices			
		(precision measuring devices)	332212	Hand and Edge Tool Manufacturing	
		(except precision measuring devices)	333515	Cutting Tool and Machine Tool Accessory Manufacturing	
	3546	Power-Driven Handtools	333991	Power-Driven Handtool Manufacturing	
	3547	Rolling Mill Machinery and Equipment	333516	Rolling Mill Machinery and Equipment Manufacturing	
	3548	Electric and Gas Welding and Soldering Equipment			
		(except transformers for arc-welding)	333992	Welding and Soldering Equipment Manufacturing	
		(transformers for arc-welders)	335311	Power, Distribution, and Specialty Transformer Manufacturing	
	3549	Metalworking Machinery, Not Elsewhere Classified	333518	Other Metalworking Machinery Manufacturing	
	3552	Textile Machinery	333292	Textile Machinery Manufacturing	
	3553	Woodworking Machinery	333210	Sawmill and Woodworking Machinery Manufacturing	
	3554	Paper Industries Machinery	333291	Paper Industry Machinery Manufacturing	
	3555	Printing Trades Machinery and Equipment	333293	Printing Machinery and Equipment Manufacturing	
	3556	Food Products Machinery	333294	Food Product Machinery Manufacturing	
	3559	Special Industry Machinery, Not Elsewhere Classified			
		(nuclear control rod drive	332410	Power Boiler and Heat	

		mechanisms)		Exchanger Manufacturing	
		(cotton ginning machinery)	333111	Farm Machinery and Equipment Manufacturing	
		(rubber and plastics manufacturing machinery)	333220	Plastics and Rubber Industry Machinery Manufacturing	
		(semiconductor machinery manufacturing)	333295	Semiconductor Machinery Manufacturing	
		(except rubber and plastics manufacturing machinery, semiconductor manufacturing machinery, and automotive maintenance equipment)	333298	All Other Industrial Machinery Manufacturing	
		(automotive maintenance equipment)	333319	Other Commercial and Service Industry Machinery Manufacturing	
	3561	Pumps and Pumping Equipment	333911	Pump and Pumping Equipment Manufacturing	
	3562	Ball and Roller Bearings	332991	Ball and Roller Bearing Manufacturing	
	3563	Air and Gas Compressors	333912	Air and Gas Compressor Manufacturing	
	3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment			
		(air purification equipment)	333411	Air Purification Equipment Manufacturing	
		(fans and blowers)	333412	Industrial and Commercial Fan and Blower Manufacturing	
	3565	Packaging Machinery	333993	Packaging Machinery Manufacturing	
	3566	Speed Changers, Industrial High-Speed Drives, and Gears	333612	Speed Changer, Industrial High-Speed Drives, and Gear Manufacturing	
	3567	Industrial Process Furnaces and Ovens	333994	Industrial Process Furnace and Oven Manufacturing	
	3568	Mechanical Power Transmission Equipment, Not Elsewhere Classified	333613	Mechanical Power Transmission Equipment Manufacturing	
	3569	General Industrial Machinery and Equipment, Not Elsewhere Classified			
		(textile fire hose)	314999	All Other Miscellaneous Textile Product Mills	
		(electric swimming pool heaters)	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing	
		(except fire hoses and electric swimming pool heaters)	333999	All Other Miscellaneous General Purpose Machinery Manufacturing	
	3581	Automatic Vending Machines	333311	Automatic Vending Machine Manufacturing	
	3582	Commercial Laundry, Drycleaning, and Pressing Machines	333312	Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing	
	3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment			

		(except motor vehicle air-conditioning)	333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	
		(motor vehicle air-conditioning)	336391	Motor Vehicle Air-Conditioning Manufacturing	
	3586	Measuring and Dispensing Pumps	333913	Measuring and Dispensing Pump Manufacturing	
	3589	Service Industry Machinery, Not Elsewhere Classified	333319	Other Commercial and Service Industry Machinery Manufacturing	
	3592	Carburetors, Pistons, Piston Rings, and Valves	336311	Carburetor, Piston, Piston Ring, and Valve Manufacturing	
	3593	Fluid Power Cylinders and Actuators	333995	Fluid Power Cylinder and Actuator Manufacturing	
	3594	Fluid Power Pumps and Motors	333996	Fluid Power Pumps and Motors Manufacturing	
	3596	Scales and Balances, Except Laboratory	333997	Scale and Balance (except Laboratory) Manufacturing	
	3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified			
		(machine shops)	332710	Machine Shops	
		(grinding castings for the trade)	332813	Electroplating, Plating, Polishing, Anodizing and Coloring	
		(flexible metal hose)	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
		(carnival amusement park equipment)	333319	Other Commercial and Service Industry Machinery Manufacturing	
		(other industrial and commercial machinery and equipment)	333999	All Other Miscellaneous General Purpose Machinery Manufacturing	
		(water leak detectors)	334519	Other Measuring and Controlling Device Manufacturing	
		(gasoline, oil, and intake filters for internal combustion engines, except for motor vehicles)	336399	All Other Motor Vehicle Parts Manufacturing	
	3711	Motor Vehicles and Passenger Car Bodies			
		(automobiles)	336111	Automobile Manufacturing	
		(light trucks and utility vehicles)	336112	Light Truck and Utility Vehicle Manufacturing	
		(heavy duty trucks)	336120	Heavy Duty Truck Manufacturing	
		(kit car and other passenger car bodies)	336211	Motor Vehicle Body Manufacturing	
		(military armored vehicles)	336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing	
	3713	Truck and Bus Bodies	336211	Motor Vehicle Body Manufacturing	
	3714	Motor Vehicle Parts and Accessories			

		(dump truck lifting mechanisms and fifth wheels)	336211	Motor Vehicle Body Manufacturing	
		(gasoline engines and engine parts including rebuilt)	336312	Gasoline Engine and Engine Parts Manufacturing	
		(wiring harness sets, other than ignition; block heaters and battery heaters; instrument board assemblies; permanent defrosters; windshield washer-wiper mechanisms; cruise control mechanisms; and other electrical equipment for internal combustion engines)	336322	Other Motor Vehicle Electrical and Electronic Equipment Manufacturing	
		(steering and suspension parts)	336330	Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing	
		(brake and brake systems, including assemblies)	336340	Motor Vehicle Brake System Manufacturing	
		(transmissions and power train parts, including rebuilding)	336350	Motor Vehicle Transmission and Power Train Parts Manufacturing	
		(except truck and bus bodies, trailers, engine and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, and motor vehicle transmission and power train parts)	336399	All Other Motor Vehicle Parts Manufacturing	
	3715	Truck Trailers	336212	Truck Trailer Manufacturing	
	3716	Motor Homes	336213	Motor Home Manufacturing	
	3721	Aircraft			
		(except research and development not producing prototypes)	336411	Aircraft Manufacturing	
	3724	Aircraft Engines and Engine Parts			
		(except research and development not producing prototypes)	336412	Aircraft Engine and Engine Parts Manufacturing	
	3728	Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified			
		(fluid power aircraft subassemblies)	332912	Fluid Power Valve and Hose Fitting Manufacturing	
		(target drones)	336411	Aircraft Manufacturing	
		(except fluid power aircraft subassemblies, target drones, and research and development not producing prototypes)	336413	Other Aircraft Part and Auxiliary Equipment Manufacturing	
	3743	Railroad Equipment			
		(locomotive fuel lubricating	333911	Pump and Pumping	

		or cooling medium pumps)		Equipment Manufacturing	
		(except locomotive fuel lubricating or cooling medium pumps)	336510	Railroad Rolling Stock Manufacturing	
	3751	Motorcycles, Bicycles, and Parts	336991	Motorcycle, Bicycle, and Parts Manufacturing	
	3761	Guided Missiles and Space Vehicles			
		(except research and development not producing prototypes)	336414	Guided Missile and Space Vehicle Manufacturing	
	3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts			
		(except research and development not producing prototypes)	336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing	
	3769	Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified			
		(except research and development not producing prototypes)	336419	Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing	
	3792	Travel Trailers and Campers	336214	Travel Trailer and Camper Manufacturing	
	3795	Tanks and Tank Components	336992	Military Armored Vehicle, Tank, and Tank Component Manufacturing	
	3799	Transportation Equipment, Not Elsewhere Classified			
		(wheelbarrows)	333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	
		(automobile, boat, utility and light truck trailers)	336214	Travel Trailer and Camper Manufacturing	
		(trailer hitches)	336399	All Other Motor Vehicle Parts Manufacturing	
		(except automobile, boat, utility light truck trailers, trailer hitches, and wheelbarrows)	336999	All Other Transportation Equipment Manufacturing	

Sector AC. Electronic, Electrical, Photographic and Optical Goods					
Sub-sector	SIC Codes		NAICS Codes		Notes
AC1	3571	Electronic Computers	334111	Electronic Computer Manufacturing	
	3572	Computer Storage Devices	334112	Computer Storage Device Manufacturing	
	3575	Computer Terminals	334113	Computer Terminal Manufacturing	
	3577	Computer Peripheral Equipment, Not Elsewhere Classified			
		(except plotter controllers and magnetic tape head cleaners)	334119	Other Computer Peripheral Equipment Manufacturing	
		(plotter controllers)	334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
		(magnetic tape head cleaners)	334613	Magnetic and Optical Recording Media Manufacturing	
	3578	Calculating and Accounting Machinery, Except Electronic Computers			
		(change making machines)	333311	Automatic Vending Machine Manufacturing	
		(except point of sales terminals, change making machines and funds transfer devices)	333313	Office Machinery Manufacturing	
		(point of sale terminals and fund transfer devices)	334119	Other Computer Peripheral Equipment Manufacturing	
	3579	Office Machines, Not Elsewhere Classified			
		(except timeclocks, time stamps, pencil sharpeners, stapling machines, etc.)	333313	Office Machinery Manufacturing	
		(time clocks and other time recording devices)	334518	Watch, Clock, and Part Manufacturing	
		(pencil sharpeners, staplers and other office equipment)	339942	Lead Pencil and Art Good Manufacturing	
	3612	Power, Distribution, and Specialty Transformers	335311	Power, Distribution, and Specialty Transformer Manufacturing	
	3613	Switchgear and Switchboard Apparatus	335313	Switchgear and Switchboard Apparatus Manufacturing	
	3621	Motors and Generators	335312	Motors and Generator Manufacturing	
	3624	Carbon and Graphite Products	335991	Carbon and Graphite Product Manufacturing	
	3625	Relays and Industrial Controls	335314	Relay and Industrial Control Manufacturing	
	3629	Electrical Industrial Apparatus, Not Elsewhere Classified	335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	
	3631	Household Cooking Equipment	335221	Household Cooking Appliance Manufacturing	

	3632	Household Refrigerators and Home and Farm Freezers	335222	Household Refrigerator and Home Freezer Manufacturing	
	3633	Household Laundry Equipment	335224	Household Laundry Equipment Manufacturing	
	3634	Electric Housewares and Fans			
		(wall and baseboard heating units for permanent installation)	333414	Heating Equipment (except Warm Air Furnaces) Manufacturing	
		(except wall and baseboard heating units for permanent installation, electronic cigarette lighters, and wall mount restroom hand dryers)	335211	Electric Housewares and Household Fan Manufacturing	
		(electronic cigarette lighters)	339999	All Other Miscellaneous Manufacturing	
	3635	Household Vacuum Cleaners	335212	Household Vacuum Cleaner Manufacturing	
	3639	Household Appliances, Not Elsewhere Classified			
		(household sewing machines)	333298	All Other Industrial Machinery Manufacturing	
		(floor waxing and floor polishing machines)	335212	Household Vacuum Cleaner Manufacturing	
		(except floor waxing and floor polishing machines, and household sewing machines)	335228	Other Major Household Appliance Manufacturing	
	3641	Electric Lamp Bulbs and Tubes	335110	Electric Lamp Bulbs and Part Manufacturing	
	3643	Current-Carrying Wiring Devices	335931	Current-Carrying Wiring Device Manufacturing	
	3644	Noncurrent-Carrying Wiring Devices			
		(fish wire, electrical wiring tool)	332212	Hand and Edge Tool Manufacturing	Any facility whose primary activity is manufacturing fish wire, electrical wiring tool (SIC 3644 / NAICS 332212) should be regulated under Sector AA, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and the Department may establish facility-specific

					monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(except fishwire, electrical wiring tool)	**335932**	Noncurrent-Carrying Wiring Device Manufacturing	
	3645	Residential Electric Lighting Fixtures	**335121**	Residential Electric Lighting Fixture Manufacturing	
	3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	**335122**	Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing	
	3647	Vehicular Lighting Equipment	**336321**	Vehicular Lighting Equipment Manufacturing	
	3648	Lighting Equipment, Not Elsewhere Classified	**335129**	Other Lighting Equipment Manufacturing	
	3651	Household Audio and Video Equipment	**334310**	Audio and Video Equipment Manufacturing	
	3652	Phonograph Records and Prerecorded Audio Tapes and Disks			
		(reproduction of all other media except video)	**334612**	Prerecorded Compact Disc (except Software), Tape, and Record Reproducing	
	3661	Telephone and Telegraph Apparatus			
		(except consumer external modems)	**334210**	Telephone Apparatus Manufacturing	
		(consumer external modems)	**334418**	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
	3663	Radio and Television Broadcasting and Communications Equipment	**334220**	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	
	3669	Communications Equipment, Not Elsewhere Classified	**334290**	Other Communications Equipment Manufacturing	
	3671	Electron Tubes	**334411**	Electron Tube Manufacturing	
	3672	Printed Circuit Boards	**334412**	Bare Printed Circuit Board Manufacturing	
	3674	Semiconductors and Related Devices	**334413**	Semiconductor and Related Device Manufacturing	
	3675	Electronic Capacitors	**334414**	Electronic Capacitor Manufacturing	
	3676	Electronic Resistors	**334415**	Electronic Resistor Manufacturing	
	3677	Electronic Coils, Transformers, and Other Inductors	**334416**	Electronic Coil, Transformer, and Other Inductor Manufacturing	
	3678	Electronic Connectors	**334417**	Electronic Connector Manufacturing	
	3679	Electronic Components, Not Elsewhere Classified			
		(antennas)	**334220**	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	
		(radio headphones)	**334310**	Audio and Video Equipment	

				Manufacturing	
		(printed circuit/electronic assembly manufacturing)	334418	Printed Circuit Assembly (Electronic Assembly) Manufacturing	
		(other electronic components)	334419	Other Electronic Component Manufacturing	
	3691	Storage Batteries	335911	Storage Battery Manufacturing	
	3692	Primary Batteries, Dry and Wet	335912	Primary Battery Manufacturing	
	3694	Electrical Equipment for Internal Combustion Engines	336322	Other Motor Vehicle Electrical and Electronic Equipment Manufacturing	
	3695	Magnetic and Optical Recording Media	334613	Magnetic and Optical Recording Media Manufacturing	
	3699	Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified			
		(electronic teaching machines and flight simulators)	333319	Other Commercial and Service Industry Machinery Manufacturing	
		(outboard electric motors)	333618	Other Engine Equipment Manufacturing	Any facility whose primary activity is manufacturing outboard electric motors (SIC 3699 / NAICS 333618) should be regulated under Sector AB, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AB applies additional sector-specific SWPPP requirements. Sector AC does not apply additional sector-specific requirements and the Department may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AB.
		(laser welding and soldering equipment)	333992	Welding and Soldering Equipment Manufacturing	
		(Christmas tree lighting sets, electric insect lamps, electric fireplace logs, and trouble lights)	335129	Other Lighting Equipment Manufacturing	
		(other electrical industrial apparatus)	335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing	
	3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	
	3821	Laboratory Apparatus and Furniture	339111	Laboratory Apparatus and Furniture Manufacturing	

	3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	**334512**	Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	
	3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	**334513**	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	
	3824	Totalizing Fluid Meters and Counting Devices	**334514**	Totalizing Fluid Meter and Counting Device Manufacturing	
	3825	Instruments for Measuring and Testing of Electricity and Electrical Signals			
		(automotive ammeters and voltmeters)	**334514**	Totalizing Fluid Meter and Counting Device Manufacturing	
		(except automotive instruments)	**334515**	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals	
	3826	Laboratory Analytical Instruments	**334516**	Analytical Laboratory Instrument Manufacturing	
	3827	Optical Instruments and Lenses	**333314**	Optical Instruments and Lens Manufacturing	
	3829	Measuring and Controlling Devices, Not Elsewhere Classified			
		(motor vehicle gauges)	**334514**	Totalizing Fluid Meter and Counting Device Manufacturing	
		(electronic chronometers)	**334518**	Watch, Clock, and Part Manufacturing	
		(except medical thermometers, electronic chronometers and motor vehicle gauges)	**334519**	Other Measuring and Controlling Device Manufacturing	
		(medical thermometers)	**339112**	Surgical and Medical Instrument Manufacturing	
	3841	Surgical and Medical Instruments and Apparatus			
		(tranquilizer guns)	**332994**	Small Arms Manufacturing	Any facility whose primary activity is manufacturing tranquilizer guns (SIC 3841 / NAICS 332994) should be regulated under Sector AA, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sector AA applies additional technology-based effluent limits comprising good housekeeping measures, spill prevention and response, and spills and leaks; additional SWPPP

					requirements; and additional inspection requirements. Sector AC does not apply additional sector-specific requirements and the Department may establish facility-specific monitoring and reporting requirements under Sector AD. Regulatory burden would be greater under Sector AA.
		(operating room tables)	**339111**	Laboratory Apparatus and Furniture Manufacturing	
		(except tranquilizer guns and operating room tables)	**339112**	Surgical and Medical Instrument Manufacturing	
	3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies			
		(incontinent pads and bed pads)	**322291**	Sanitary Paper Product Manufacturing	Any facility whose primary activity is manufacturing incontinent pads and bed pads (SIC 3842 / NAICS 322291) should be regulated under Sector B, but may continue to be regulated under Sector AC, or alternatively, under Sector AD. Sectors B and AC do not apply additional sector-specific requirements. The Department may require additional facility-specific monitoring and reporting requirement under Sector AD. Regulatory burden is not expected to differ between Sectors B and AC.
		(electronic hearing aids)	**334510**	Electromedical and Electrotherapeutic Apparatus Manufacturing	
		(except electronic hearing aids, incontinent pads, anatomical models, and bed pads)	**339113**	Surgical Appliance and Supplies Manufacturing	
		(anatomical models)	**339999**	All Other Miscellaneous Manufacturing	
	3843	Dental Equipment and Supplies	**339114**	Dental Equipment and Supplies Manufacturing	
	3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	**334517**	Irradiation Apparatus Manufacturing	
	3845	Electromedical and			

		Electrotherapeutic Apparatus			
		(except CT and CAT scanners)	**334510**	Electromedical and Electrotherapeutic Apparatus Manufacturing	
		(CT and CAT Scanners)	**334517**	Irradiation Apparatus Manufacturing	
	3851	Ophthalmic Goods			
		(intraoccular lenses, i.e., surgical implants)	**339113**	Surgical Appliance and Supplies Manufacturing	
		(except intraocular lenses)	**339115**	Ophthalmic Goods Manufacturing	
	3861	Photographic Equipment and Supplies			
		(photographic films, paper, plates and chemicals)	**325992**	Photographic Film, Paper, Plate, and Chemical Manufacturing	
		(except photographic film, paper, plates, and chemicals)	**333315**	Photographic and Photocopying Equipment Manufacturing	
	3873	Watches, Clocks, Clockwork Operated Devices, and Parts	**334518**	Watch, Clock, and Part Manufacturing	

Sector AD. Non-Classified Facilities		
Sub-Sector	**Narrative Description**	**Notes**
AD1	Other stormwater discharges designated by the Department as needing a permit (see 40 CFR 122.26(a)(9)(i)(C) & (D)) or any facility discharging stormwater associated with industrial activity not described by any of Sectors A-AC. NOTE: Facilities may not elect to be covered under Sector AD. Only the Department may assign a facility to Sector AD.	

Appendix S

Sector S - Air Transportation

S.1 Covered Stormwater Discharges.

The requirements in Sector S apply to stormwater discharges associated with industrial activity from Air Transportation facilities identified by the SIC Codes specified in Sector S of Attachment A of the General Permit.

S.2 Limitation on Coverage.

S.2.1 ***Limitations on Coverage.*** This permit authorizes stormwater discharges from only those portions of the air transportation facility that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling and lubrication), equipment cleaning operations or deicing operations.

Note: the term "deicing" in this permit will generally be used to mean both deicing (removing frost, snow or ice) and anti-icing (preventing accumulation of frost, snow or ice) activities, unless specific mention is made otherwise.

S.2.2 ***Prohibition of Non-Stormwater Discharges.*** This permit does not authorize the discharge of aircraft, ground vehicle, runway and equipment wash waters; nor the dry weather discharge of deicing chemicals. Such discharges must be covered by separate MEPDES permit(s). Note that a discharge resulting from snowmelt is not a dry weather discharge.

S.3 Multiple Operators at Air Transportation Facilities.

Air transportation facilities often have more than one operator who could discharge stormwater associated with industrial activity. Operators include the airport authority and airport tenants, including air passenger or cargo companies, fixed based operators, and other parties who routinely perform industrial activities on airport property.

S.3.1 ***Permit Coverage/Submittal of NOIs.*** Where an airport transportation facility has multiple industrial operators that discharge stormwater, each individual operator must obtain coverage under an MEPDES stormwater permit.

S.3.2 ***MSGP Implementation Responsibilities for Airport Authority and Tenants.*** The airport authority, in collaboration with its tenants, may choose to implement certain MSGP requirements on behalf of its tenants in order to increase efficiency and eliminate redundancy or duplication of effort. Options available to the airport authority and its tenants for implementation of MSGP requirements include:

- The airport authority performs certain activities on behalf of itself and its tenants and reports on its activities;
- Tenants provide the airport authority with relevant inputs about tenants' activities, including deicing chemical usage*, and the airport authority compiles and reports on tenants' and its own activities;
- Tenants independently perform, document and submit required information on their activities.

*Tenants who report their deicing chemical usage to the airport authority and rely on the airport authority to perform monitoring should not check the glycol and urea use box on their NOI forms.

S.3.3 ***SWPPP Requirements.*** A single comprehensive SWPPP must be developed for all stormwater discharges associated with industrial activity at the airport before submittal of any NOIs. The comprehensive SWPPP should be developed collaboratively by the

airport authority and tenants. If any operator develops a SWPPP for discharges from its own areas of the airport, that SWPPP must be coordinated and integrated with the comprehensive SWPPP. All operators and their separate SWPPP contributions and compliance responsibilities must be clearly identified in the comprehensive SWPPP, which all operators must sign and certify in accordance with the General Permit. As applicable, the SWPPP must clearly specify the MSGP requirements to be complied with by:

- The airport authority for itself;
- The airport authority on behalf of its tenants;
- Tenants for themselves.

For each activity that an operator (e.g., the airport authority) conducts on behalf of another operator (e.g., a tenant), the SWPPP must describe a process for reporting results to the latter operator and for ensuring appropriate follow-up, if necessary, by all affected operators. This is to ensure all actions are taken to correct any potential deficiencies or permit violations. For example, where the airport authority is conducting monitoring for itself and its tenants, the SWPPP must identify how the airport authority will share the monitoring results with its tenants, and then follow-up with its tenants where there are any exceedances of benchmarks, effluent limits, or water quality standards. In turn, the SWPPP must describe how the tenants will also follow-up to ensure permit compliance.

S.3.4 ***Duty to Comply.*** All individual operators are responsible for implementing their assigned portion of the comprehensive SWPPP, and operators must ensure that their individual activities do not render another operator's stormwater controls ineffective. In addition, the standard permit conditions applicable to this General Permit, including A.3, Duty to Comply (which states, in part, "The permittee [each individual operator] must comply with all conditions of this permit."). For multiple operators at an airport this means that each individual operator remains responsible for ensuring all requirements of its own MSGP coverage are met regardless of whether the comprehensive SWPPP allocates the actual implementation of any of those responsibilities to another entity. That is, the failure of the entity allocated responsibility in the SWPPP to implement an MSGP requirement on behalf of other operators does not negate the other operators' ultimate liability.

S.4 Additional Technology-Based Effluent Limits.

S.4.1 ***Good Housekeeping Measures.***

S.4.1.1 ***Aircraft, Ground Vehicle and Equipment Maintenance Areas.*** Minimize the contamination of stormwater runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangers) through implementation of control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): performing maintenance activities indoors; maintaining an organized inventory of material used in the maintenance areas; draining all parts of fluids prior to disposal; prohibiting the practice of hosing down the apron or hanger floor; using dry cleanup methods; and collecting the stormwater runoff from the maintenance area and providing treatment or recycling.

S.4.1.2 ***Aircraft, Ground Vehicle and Equipment Cleaning Areas.*** (See also Part S.4.6) Clearly demarcate these areas on the ground using signage or other

appropriate means. Minimize the contamination of stormwater runoff from cleaning areas.

S.4.1.3 ***Aircraft, Ground Vehicle and Equipment Storage Areas.*** Store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only and implement control measures to minimize the discharge of pollutants in stormwater from these storage areas such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): storing aircraft and ground vehicles indoors; using drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding the storage areas.

S.4.1.4 ***Material Storage Areas.*** Maintain the vessels of stored materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) in good condition to prevent or minimize contamination of stormwater. Also plainly label the vessels (e.g., "used oil," "Contaminated Jet A"). To minimize contamination of precipitation/runoff from these areas, implement control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): storing materials indoors; storing waste materials in a centralized location; and installing berms/dikes around storage areas.

S.4.1.5 ***Airport Fuel System and Fueling Areas.*** Minimize the discharge of pollutants in stormwater from airport fuel system and fueling areas through implementation of control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): implementing spill and overflow practices (e.g., placing absorptive materials beneath aircraft during fueling operations); using only dry cleanup methods; and collecting stormwater runoff. If you have implemented a SPCC plan developed in accordance with the 2006 amendments to the SPCC rule, you may cite the relevant aspects from your SPCC plan that comply with the requirements of this section in your SWPPP.

S.4.1.6 ***Source Reduction.*** Consistent with safety considerations, minimize the use of urea and glycol-based deicing chemicals to reduce the aggregate amount of deicing chemicals used that could add pollutants to stormwater discharges. Chemical options to replace pavement deicers (urea or glycol) include (list not exclusive): potassium acetate; magnesium acetate; calcium acetate; and anhydrous sodium acetate.

S.4.1.6.1 ***Runway Deicing Operations.*** To minimize the discharge of pollutants in stormwater from runway deicing operations, implement source reduction control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): metered application of chemicals; pre-wetting dry chemical constituents prior to application; installing a runway ice detection system; implementing anti-icing operations as a preventive measure against ice buildup; heating sand; and product substitution.

S.4.1.6.2 ***Aircraft Deicing Operations.*** Minimize the discharge of pollutants in stormwater from aircraft deicing operations. Determine whether excessive application of deicing chemicals occurs and adjust as necessary, consistent with considerations of flight safety. Determine whether alternatives to glycol and whether containment measures for applied chemicals are feasible. Implement control measures for reducing deicing fluid such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): forced-air deicing systems, computer-controlled fixed-gantry systems, infrared technology, hot water, varying glycol content to air temperature, enclosed-basket deicing trucks, mechanical methods, solar radiation, hangar storage, aircraft covers, and thermal blankets for MD-80s and DC-9s. Consider using ice-detection systems and airport traffic flow strategies and departure slot allocation systems where feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations. The evaluations and determinations required by this Part should be carried out by the personnel most familiar with the particular aircraft and flight operations and related systems in question (versus an outside entity such as the airport authority).

S.4.1.7 ***Management of Runoff.*** Minimize the discharge of pollutants in stormwater from deicing chemicals in runoff. To minimize discharges of pollutants in stormwater from aircraft deicing, implement runoff management control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): installing a centralized deicing pad to .recover deicing fluid following application; plug-and-pump (PnP); using vacuum/collection trucks (glycol recovery vehicles); storing contaminated stormwater/deicing fluids in tanks; recycling collected deicing fluid where feasible; releasing controlled amounts to a publicly owned treatment works; separation of contaminated snow; conveying contaminated runoff into a stormwater impoundment for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); and directing runoff into vegetative swales or other infiltration measures. To minimize discharges of pollutants in stormwater from runway deicing, implement runoff management control measures such as the following, where determined to be feasible and that accommodate considerations of safety, space, operational constraints, and flight considerations (list not exclusive): mechanical systems (snow plows, brushes); conveying contaminated runoff into swales and/or a stormwater impoundment; and pollution prevention practices such as ice detection systems, and airfield prewetting.

When applying deicing fluids during non-precipitation events (also referred to as "clear ice deicing"), implement control measures to prevent unauthorized discharge of pollutants (dry-weather discharges of pollutants would need coverage under an MEPDES wastewater permit), or to minimize the discharge of pollutants from deicing fluids in later stormwater discharges, implement control measures such as the following, where determined to be feasible and that accommodate considerations safety, space, operational constraints,

and flight considerations (list not exclusive): recovering deicing fluids; preventing the fluids from entering storm sewers or other stormwater discharge conveyances (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains); releasing controlled amounts to a publicly owned treatment works Used deicing fluid should be recycled whenever practicable.

S.4.2 ***Deicing Season.*** You must determine the seasonal timeframe (*e.g.*, December-February, October - March) during which deicing activities typically occur at the facility. Implementation of control measures, including any BMPs, facility inspections and monitoring must be conducted with particular emphasis throughout the defined deicing season. If you meet the deicing chemical usage thresholds of 100,000 gallons glycol and/or 100 tons of urea, the deicing season you identified is the timeframe during which you must obtain the four required benchmark monitoring event results for deicing-related parameters, i.e., BOD, COD, ammonia and pH. See also Part S.7.

S.5 Additional SWPPP Requirements.

S.5.1 ***Drainage Area Site Map.*** Document in the SWPPP the following areas of the facility and indicate whether activities occurring there may be exposed to precipitation/surface runoff: aircraft and runway deicing operations; fueling stations; aircraft, ground vehicle and equipment maintenance/cleaning areas; and storage areas for aircraft, ground vehicles and equipment awaiting maintenance.

S.5.2 ***Potential Pollutant Sources.*** In the inventory of exposed materials, describe in the SWPPP the potential for the following activities and facility areas to contribute pollutants to stormwater discharges: aircraft, runway, ground vehicle and equipment maintenance and cleaning; and aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways and ramps). If deicing chemicals are used, a record of the types (including the Safety Data Sheets [SDS]) used and the monthly quantities, either as measured or, in the absence of metering, using best estimates, must be maintained. This includes all deicing chemicals, not just glycols and urea (*e.g.*, potassium acetate), because large quantities of these other chemicals can still have an adverse impact on receiving waters. Deicing operators must provide the above information to the airport authority for inclusion with any comprehensive airport SWPPPs.

S.5.3 ***Vehicle and Equipment Wash Water Requirements.*** If wash water is handled in a manner that does not involve separate MEPDES permitting or local pretreatment requirements (e.g., hauled offsite, retained onsite), describe the disposal method and include all pertinent information (e.g., frequency, volume, destination) in your SWPPP. Discharges of vehicle and equipment wash water are not authorized by this permit for this sector.

S.5.4 ***Documentation of Control Measures Used for Management of Runoff.*** Document in your SWPPP the control measures used for collecting or containing contaminated melt water from collection areas used for disposal of contaminated snow.

S.6 Additional Inspection Requirements.

At a minimum conduct facility inspections at least monthly during the deicing season (*e.g.*, October through April for most mid-latitude airports). If your facility needs to deice before or after this period, expand the monthly inspections to include all months during which deicing chemicals may be used. The Department may specifically require you to increase inspection frequencies.

S.7 Sector-Specific Benchmarks.

No benchmarks are established for Sector S.

S.8 Effluent Limitations Based on Effluent Limitations Guidelines and New Source Performance Standards.

S.8.1 ***Airfield Pavement Deicing.*** For both existing and new "primary airports" (as defined at 40 CFR 449.2) with 1,000 or more annual non-propeller aircraft departures that discharge stormwater from airfield pavement deicing activities, there shall be no discharge of airfield pavement deicers containing urea. To comply with this limitation, such airports must do one of the following: (1) certify annually on the annual report that you do not use pavement deicers containing urea, or (2) meet the effluent limitation in Table S-2.

S.8.2 ***Aircraft Deicing.*** Airports that are both "primary airports" (as defined at 40 CFR 449.2) and new sources ("new airports") with 1,000 or more annual non-propeller aircraft departures must meet the applicable requirements for aircraft deicing at 40 CFR 449.11(a). Discharges of the collected aircraft deicing fluid directly to waters of the U.S. are not eligible for coverage under this General Permit.

S.8.3 ***Monitoring, Reporting and Recordkeeping.*** For new and existing airports subject to the effluent limitations in Part S.8.1 or S.8.2 of this General Permit, you must comply with the applicable monitoring, reporting and recordkeeping requirements outlined in 40 CFR 449.20 as specified below.

Table S-2

Industrial Activity	Parameter	Effluent Limitation
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Ammonia as Nitrogen	14.7 mg/L, daily maximum

APPENDIX D

SWPPP Corrective Action Log

Maine's Multi-Sector General Permit
Corrective Action Report (C.A.R)

A. General Information

Facility Name:					
Permit Number:					
Contact Person:				**Title:**	
Phone:		**Ext:**		**Email:**	
C.A.R Date:					
Site Inspection or Site Compliance Evaluation Date:					

B. Report Information

If a non-structural BMP is found to be deficient, this form must be kept in the facility's SWPPP.

Is there a structural or non-structural BMP deficiency?	☐ **Structural**	☐ **Non-Structural**	☐ **Both**

If non-structural BMP deficiencies are identified please use the table below (See Section C for Structural):

Non-structural BMP	Location	Deficiency	Corrective Actions (Start and Stop Dates)	SWPPP Modifications

C. If structural BMP deficiencies are identified please complete the following information:

If a structural BMP is found to be deficient, excluding routine maintenance, this report must be kept with the facility's SWPPP and you must notify the regional stormwater inspector within (14) business days by phone, email, or USPS. If a non-structural BMP is found to be deficient, this form must be kept in the facility's SWPPP.

Description of BMP and the deficiency: (Please include the reason for the deficiency)_____

Location of BMP:_____

Description of planned corrective actions including any temporary BMPs:_____

Are other Department licenses or permits required? Yes No

If so what, and have they been obtained?_____

Date of construction or completion of corrective action:_____

Date of SWPPP modifications:_____

Note: If existing structural BMPs require modification or if additional structural BMPs are necessary, implementation must be completed before the next anticipated storm event to the greatest extent practicable, but not more than twelve (12) weeks after discovery of the deficiency unless otherwise authorized by the Department. Temporary BMPs must be implemented as soon as practicable after the Site Compliance Evaluation or site inspection is complete.

Signature of Responsible Official: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and compete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowingly violating the law.

Name:_____ Date: _____

Signature: _____

APPENDIX E

SWPPP Amendment Log

SWPPP Amendment Log

Project Name: **Brunswick Executive Airport**
SWPPP Contact: **Woodie Bartley**

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
1	Creation of Airport SWPPP Draft	September 2011	Victoria Boundy – MRRA
2	Finalize Airport SWPPP	August 2013	Suzanne Sheppard, PE – Hoyle, Tanner & Associates, Inc.
3	Update SWPPP	October 2020	Steve Levesque, Executive Director - MRRA
4	Update Outfall and Inspection Sites	July 2021	Woodie Bartley, Utilities Manager - MRRA
5	Update of SWPPP	August 2021	Woodie Bartley, Utilities Manager - MRRA
6	Incorporate DEP requested changes	September 2021	Woodie Bartley, Utilities Manager - MRRA
7	De-icing, training additions and changes	December 2021	Woodie Bartley, Utilities Manager - MRRA

APPENDIX F

TDML Summary: Mere Brook

TMDL Assessment Summary

Mere Brook a.k.a. Mare Brook

Watershed Description

This TMDL assessment summary applies to the entire 8-mile length of Mere Brook located in the City of Brunswick, Maine. Mere Brook begins in a wetland area near Matthew Drive. The stream crosses Bettina Lane and flows southeast through a small forested area. Just below Seahawk Avenue, Mere Brook continues underground for approximately 1 mile, as it flows through the Brunswick Naval Complex, emerging near Swampy Brook. Mere Brook then flows east through a wetland, eventually emptying into Harpswell Cove. The Mere Brook watershed covers approximately 3,648 acres in the City of Brunswick.

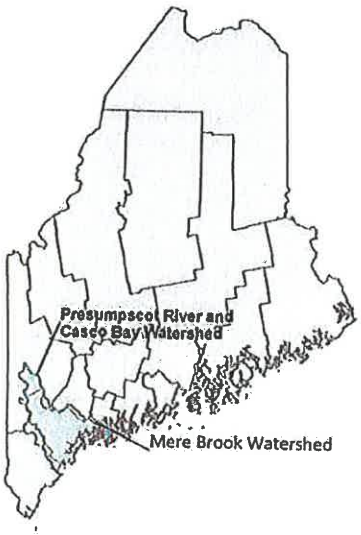
- Stormwater runoff from impervious cover (IC) is likely the largest source of pollution to Mere Brook. Stormwater falling on roads, roofs and parking lots in developed areas flows quickly off impervious surfaces, carrying dirt, oils, metals, and other pollutants, and sending high volumes of flow to the nearest section of the stream.
- Most of the Mere Brook watershed is developed (55%), particularly in the northeastern portion of the watershed near the intersection of Orion Street and Seahawk Avenue. The majority of this development is classified as high-intensity development or developed open space.
- Brunswick Naval Complex is located in the center of the Mere Brook watershed.
- Wetlands and woodlands near the headwaters and the mouth of Mere Brook absorb and filter stormwater pollutants, and help protect both water quality in the stream and stream channel stability.
- Mere Brook is currently on Maine's list of Urban Impaired Streams.

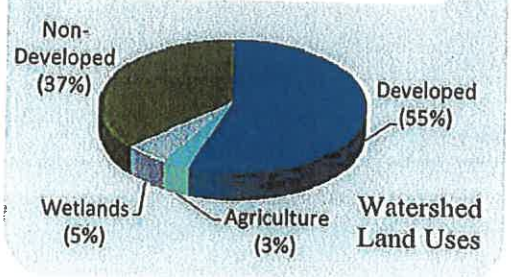
Definitions

- *TMDL is an acronym for Total Maximum Daily Load, representing the total amount of a pollutant that a water body can receive and still meet water quality standards.*
- *Impervious cover refers to landscape surfaces (e.g. roads, sidewalks, driveways, parking lots, and rooftops) that no longer absorb rain and may direct large volumes of stormwater runoff into the stream.*

Waterbody Facts

- Segment ID: ME0106000106_602R02
- City: Brunswick, ME
- County: Cumberland
- Impaired Segment Length: 8 miles
- Classification: Class B
- Direct Watershed: 5.7 mi² (3,648 acres)
- Watershed Impervious Cover: 21%
- Major Drainage Basin: Presumpscot River and Casco Bay Watershed





Why is a TMDL Assessment Needed?

Mere Brook, a Class B freshwater stream, has been assessed by DEP as not meeting water quality standards for aquatic life use and has been listed on the 303(d) list of impaired waters. The Clean Water Act requires that all 303(d)-listed waters undergo a TMDL assessment that describes the impairments and establishes a target to guide the measures needed to restore water quality. The goal is for all waterbodies to comply with state water quality standards.

Mere Brook downstream of S-144.
(Photo: DEP Biomonitoring Program)

The impervious cover TMDL assessment for Mere Brook addresses water quality impairments to aquatic life use (based on stream habitat and benthic macroinvertebrate assessments). These impairments are associated with a variety of pollutants in urban stormwater as well as erosion, habitat loss and unstable stream banks caused by excessive amounts of runoff.

Sampling Results & Pollutant Sources

DEP makes aquatic life use determinations using a statistical model that incorporates 30 variables of data collected from rivers and streams, including the richness and abundance of streambed organisms, to determine the probability of a sample meeting Class A, B, or C conditions. Biologists use the model results and supporting information to determine if samples comply with standards of the class assigned to the stream or river (Davies and Tsomides, 2002).

Mere Brook has benthic-macroinvertebrate data collected by DEP in 2000-2003 at four sampling stations (S-143, S-144, S-331, and S-457). Data collected at these stations indicate Class B Mere Brook meets the lower Class C criteria or is "non attaining" (NA), meaning it does not meet Class A, B, or C conditions on different sample dates.

Sampling Station	Sample Date	Statutory Class	Model Results
S-143	9/11/2000	B	C
S-143	8/7/2001	B	C
S-143	8/24/2001	B	C
S-143	8/14/2003	B	NA
S-143	9/30/2003	B	NA
S-144	9/11/2000	B	NA
S-144	8/7/2001	B	NA
S-144	8/24/2001	B	NA
S-144	9/30/2003	B	NA
S-331	9/11/2000	B	NA
S-331	8/7/2001	B	C
S-331	7/31/2002	B	C
S-457	9/11/2000	B	NA
S-457	8/7/2001	B	C
S-457	7/31/2002	B	NA
S-457	8/14/2003	B	NA
S-457	9/30/2003	B	NA

Impervious Cover Analysis

Increasing the percentage of impervious cover (%IC) in a watershed is linked to decreasing stream health (CWP, 2003). Because Mere Brook's impairment is not caused by a single pollutant, %IC is used for this TMDL to represent the mix of pollutants and other impacts associated with excessive stormwater runoff. The Mere Brook watershed has an impervious surface area of 21% (Figure 1). DEP has found that in order to support Class B aquatic life use, the Mere Brook watershed may require the characteristics of a watershed

with 8% impervious cover. This WLA & LA target is intended to guide the application of

Best Management Practices (BMP) and Low Impact Development (LID) techniques to reduce the *impact* of impervious surfaces. Ultimate success of the TMDL will be Mere Brook's compliance with Maine's water quality criteria for aquatic life.

~~8% IC represents an approximate 62% reduction~~ in stormwater runoff volume and associated pollutants when compared to existing pollutant loads.

Impervious Cover GIS Calculations

The Impervious Cover Calculations are based on analysis of GIS coverage's presented in Figure 1. These maps were derived from a detailed field assessment conducted by DEP Staff, as described in the TMDL.

Next Steps

Because Mere Brook is an impaired water, stormwater runoff in the watershed should be considered during the development of a watershed management plan to:

- Encourage greater citizen involvement through the development of a watershed coalition to ensure the long term protection of Mere Brook;
- Address existing stormwater problems in the Mere Brook watershed by installing structural and applying non-structural best management practices (BMPs); and
- Prevent future degradation of Mere Brook through the development and/or strengthening of local stormwater control ordinances.

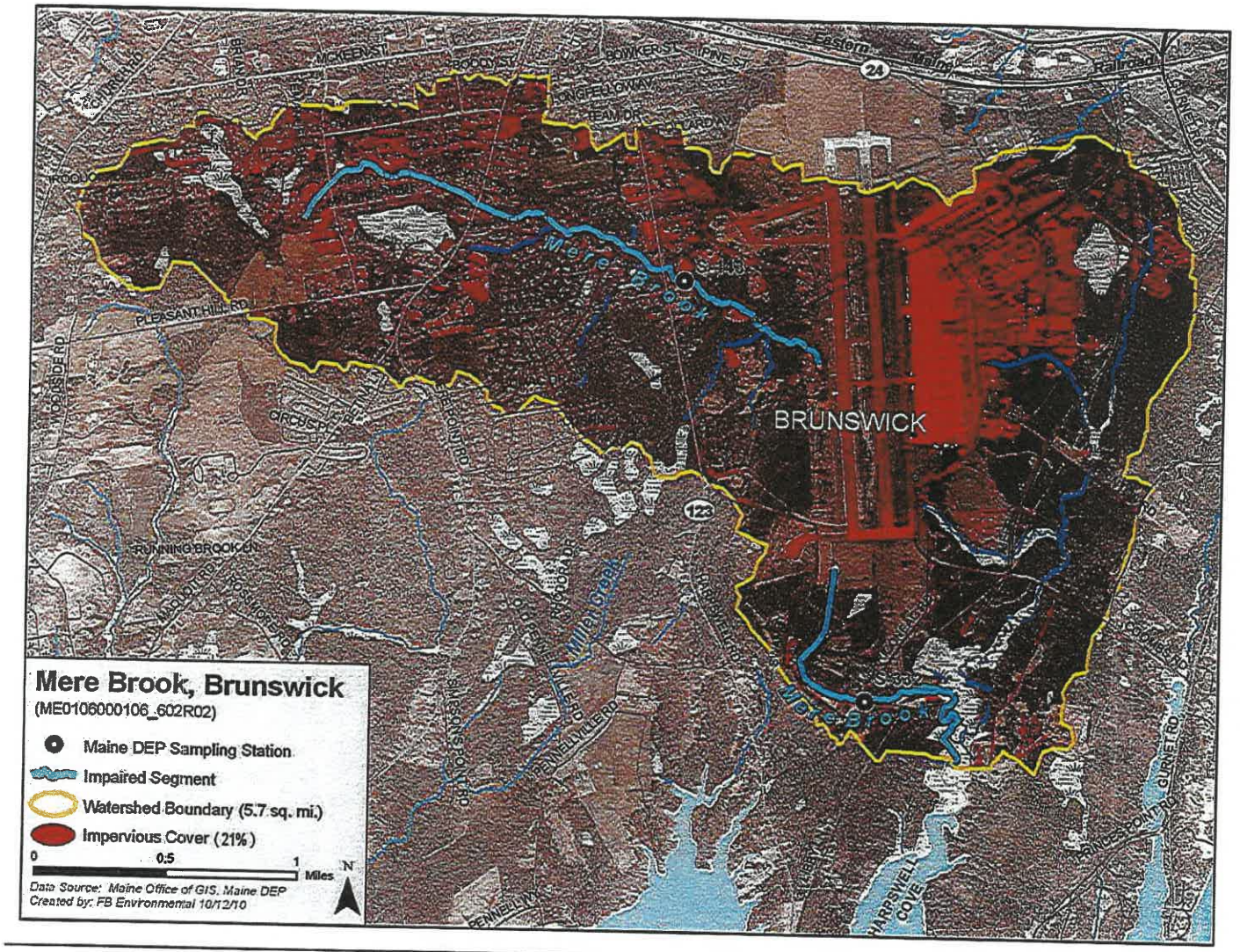


Figure 1: *Map of Mere Brook watershed impervious cover.*

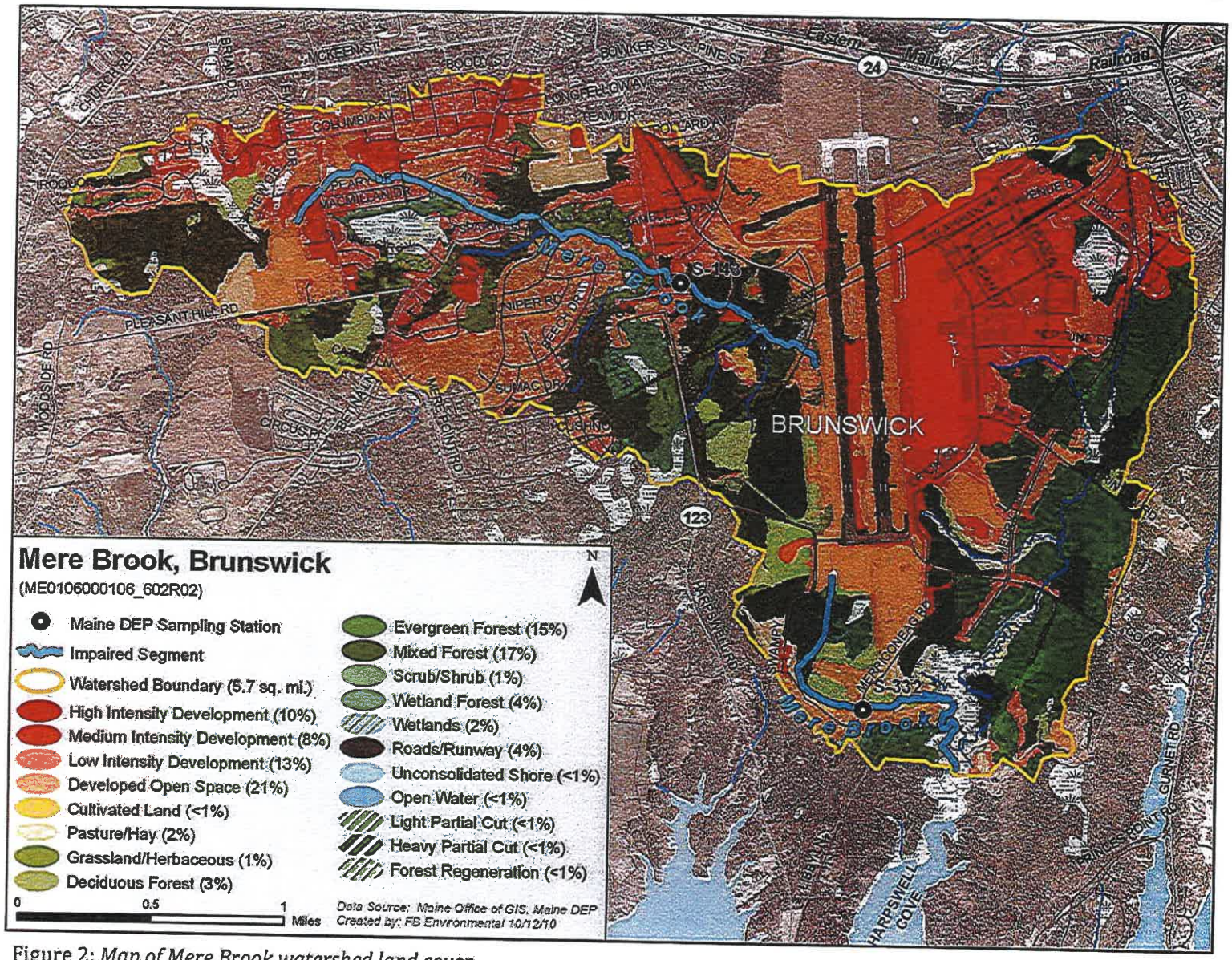


Figure 2: *Map of Mere Brook watershed land cover.*

References

Center for Watershed Protection (CWP). 2003. Impacts of Impervious Cover on Aquatic Systems. Watershed Protection Research Monograph No. 1. Center for Watershed Protection, Ellicott City, MD. 142 pp.

Davies, Susan P. and Leonidas Tsomides. 2002. Methods for Biological Sampling and Analysis of Maine's Rivers and Streams. Maine Department if Environmental Protection. Revised August, 2002. DEP LW0387-B2002.

Maine Department of Environmental Protection (DEP). 2010. Assessment Database Detail Report for Mere Brook. Bureau of Land and Water Quality, Augusta, ME.

Incident Report

DATE	DESCRIPTION	LOCATION	
10/23/2020	UNAUTHORIZED DUMPING OF LIQUIDS FROM STORAGE TANKS BEING RINSED	KATAHDIN, ALLAGASH, ADM. FITCH, PEGASUS AND HANGAR 6 APRON	
12/17/2020	Aircraft de-iced by Flight Level, less than 5 gallons used.	DE-ICING AREA, AIRPORT TAXIWAY	
1/2/2021	Diesel fuel spill, fully contained at snow barn	Inside SRE building	
3/12/2021	Small amount of oil (<1 gal.) leaked from snowblower while parked outside of snow barn, fully contained and cleaned up with no runoff.	Outside of SRE building	
5/10/2021	Slight overfill while fueling vehicle, covered with absorbent, no runoff	Outside of SRE building	
5/20/2021	Small leak detected in generator fuel tank at Bldg. 200; absorbent pads and containment boom deployed.	Outside of Building 200.	
2/11/2022	While performing monthly deicing inspection found that diversion valve was in the open position and there were high water alarms for diversion manhole and wetwell. Closed valve and pumped excess water from wetwell, diversion manhole was ok.	Deicing area and Building 251	
2/23/2022	Hydraulic fluid filter failed on plow truck as truck was pulling out of SRE building, losing 2-3 gallons of fluid across approximately 150 feet until failure was noticed and truck was stopped. Conditions were dry and absorbent was used to pick up all the fluid. Nearby catch basin grate was circled with an absorbent boom as a precaution.	Apron area west and north of SRE Building	

4/21/2022	A barrel properly stored outdoors on a pallet in the southeast side of Hangar 4 was observied to be leaking slightly, unknown contents. The barrels were secured and moved into the SRE building and the small leak site was cleaned using dry absorbent. Contents of barrel will be tested.	Hangar 4, southeast side, outdoors on apron.	
6/14/2022	Slight drip leak from a fill valve on fuel truck, truck was moved into SRE building and leaked fuel was picked up with absorbent. Less than one gallon spilled.	Outside of SRE building	
6/14/2022	After fuel truck was moved inside, tank drain valve started leaking and fuel ran into floor drain. Leak was plugged, spilled fuel on the floor was cleaned up with absorbent, and the oil/water separator contained all the fuel that went down the floor drain. The sewer lift station was shut down as a precaution, and an environmental company was contacted to pump and clean the oil/water separator.	Inside SRE building	
9/22/2022	During a quarterly test of the fire suppression system in Hangar 4, the foam system was accidentally charged briefly with water. Prior to this incident the foam line valves were isolated. Roughly 50-60 gal of water and residual solution was released, all of which went to a floor drain that is connected to sanitary sewer.	Hangar 4	

7/5/2023	During a test of the fire suppression system and while a repair to the sprinkler system was underway, and even through the control to the AFFF system was in the off position, the solenoid control valves on the AFFF system momentarily opened, allowing between one and two quarts of AFFF to be discharged into the piping system and then out the drain onto the apron on the west side of Hangar 4. The area around the spilled AFFF was immediately surrounded by absorbent booms and the fluid and foam was captured and stored in plastic 55 gallon drums. The piping and drain system was fully flushed, with all the liquid stored in drums, and the entire area of the spill was washed down and the wash water captured and stored in drums. A total of approxumately 200 gallons of fluid was captured in the cleanup and is stored in 5 drums, on pallets, in Building 611.	Hangar 4	
7/21/2023	Neptune transformers, moved padmount transformers no longer being used on Neptune Drdive and discovered that back in the Spring Nelson Property Services, the excavation contractor, had broken the drain on a transformer by hooking a wire while excavating nearby and pulled the drain valve off, spilling the non-PCB mineral oil. Contacted DEP and receved instructions on residential area cover requirements.		

8/11/2023	Aviation gas spill in Hangar 5 Center Bay. A check valve stuck open on an aircraft after inspecting tank for water, and spilled 40 gallons of aviation gas. 25 gallons was recovered by Brunswick FD in the hangar bay and the remaining 15 gallons was captured by Clean Harbors at the stormwater catch basin in the parking lot just east of the hangar building. Clean Harbors collected and tanked roughly 150 gallons of fluid to recover the 15 gallons of fuel in barrels, and also collected roughly 60 pounds of contaminated dirt, absorbant and spent PPE in barrels.		
12/22/2023	Received complaint from a STARC Systems employee of strong fuel smell and stain in parking lot of Hangar 5. Cleaned up with absorbant, and found likely vehicle from which fuel spilled the next day and took pictures.		
6/6/2024	During invesigative work being done to determine the location of a leak in the high-pressure water system feeding the hangar fire systems, a valve on the riser for the south section of Hangar 4 malfunctioned and some water was released into the piping of the riser. No AFFF was released because all of the foam connections were manually turned off and remain off while the leak work is being done. A small amount, less that one gallon, of water and foam residual was released out the drain, and was immediately vacuumed up, and the area was rinsed and vacuumed as well. All of the water that was released into the piping was drained back and captured in barrels and will be disposed of properly.		
8/19/2024	***Accidental Discharge of PFAS Containing Firefighting Foam at Brunswick Executive Airport***		
	August 19, 2024 3:00 p.m.		

	As I reported earlier this morning, there was a discharge of the fire suppression system at Hangar 4, at the Brunswick Executive Airport at approximately 5:15 a.m. this morning. MRRA staff received electronic notification that the fire suppression system had been engaged in Hangar 4. This fire suppression foam system is required in hangars of this size.		
	Immediate action was taken to notify the Maine Department of Environmental Protection (MaineDEP), the United States Environmental Protection Agency (USEPA), EPA's National Response Center, Brunswick Fire Department, Brunswick Sewer District, the United States Department of Navy to begin the response and the initiation of a comprehensive clean-up effort to remediate the effects of the deployed fire suppression system		
	The fire suppression system discharged approximately 1,600 gallons of foam containing PFAS, commonly known as "forever chemicals" due to their persistence in the environment. The cause of the accidental discharge is still under investigation.		
	The Midcoast Regional Redevelopment Authority (MRRA) is a quasi-municipal corporation created by the State of Maine to manage the redevelopment of the former Naval Air Station Brunswick which was closed as a result of a federal Base Realignment and Closure action in 2005.		

	MaineDEP, who is overseeing the cleanup effort, was notified immediately and had officials on site quickly to assess the extent of contamination and monitor affected areas within hangar 4, TechPlace, and areas impacted outside the buildings.		
	MRRA activated an Incident Command Center at 8:30 a.m. to begin the coordination of the response team and clean-up effort which will involve a multi-phase approach to ensure thorough remediation of affected areas. MRRA has retained Clean Harbors of South Portland to provide containment and clean up services. They are on site with vacuum trucks, containment booms, and frac tanks to begin this cleanup effort.		
	"We take this situation very seriously and are committed to addressing the cleanup with the utmost urgency and transparency," said Kristine Logan, the Executive Director of the Midcoast Regional Redevelopment Authority. "Our goal is to not only clean up the affected areas but also to ensure that such incidents are handled effectively and responsibly."		
	MRRA will continue to work closely with local, state, and federal agencies to ensure compliance with all regulatory requirements and to minimize any negative impacts to the environment.		
	Regular updates will be provided through our website and community outreach channels as we continue the cleanup process.		