GOVERNMENT OF THE DISTRICT OF COLUMBIA
District Department of the Environment

GUIDANCE FOR OBTAINING AUTHORIZATION TO DISCHARGE TREATED GROUND WATER UNDER THE EPA MULTI-SECTOR GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY (MSGP)

The Environmental Protection Agency (EPA) is authorizing discharges of treated ground water to the waters of the District of Columbia under application made to the Director of EPA Region III for coverage under the Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP), Part 8- Subpart AD – Sector AD. Applicants will be required to comply with the eligibility requirements, effluent limitations, inspection requirements, and other conditions set forth in the MSGP permit, and the additional District's ground water requirements described below. Permit applicants may apply for coverage under the EPA's MSGP at: http://cfpub1.epa.gov/npdes/stormwater/msgp.cfm.

The MSGP Part 8.AD.2 authorizes EPA to establish additional monitoring and reporting requirements for Sector AD facilities. In addition, MSGP Part 9.3.1 establishes conditions for MSGP permittees in the District of Columbia, including compliance with District of Columbia Water Pollution Control Act and its implementing regulations (MSGP Part 9.3.1.1), and the requirement to submit SWPPPs and other reports to the District Department of the Environment (DDOE) (MSGP Part 9.3.1.2 through 9.3.1.6).

Pursuant to MSGP Part 9.3.1, DDOE has determined that Sector AD facilities in the District of Columbia that treat contaminated ground water prior to discharging to the storm sewer or receiving water body must meet the monitoring and reporting conditions described below, to ensure compliance with the District's Water Pollution Control Act and implementing regulations. These requirements are in addition to the requirements specified elsewhere in the MSGP.

Additional Requirements Applicable to Sector AD Facilities that Treat Contaminated Ground Water Prior to Discharge

1. Permit Application and Approval

When you apply to the EPA Director for coverage under Sector AD, you must also submit a copy of the application, Notice of Intent (NOI), SWPPP, and all required monitoring data to DDOE at the following address:

Attn: Associate Director
Water Quality Division
District Department of the Environment
51 N Street, NE, 5th Floor
Washington, DC 20002

2. Storm Water Pollution Prevention Plan (SWPPP)

Your storm water pollution prevention plan (SWPPP) must include a description of potential contaminants in the groundwater at the facility or site. You must document the potential contaminants or characterization of the treated ground water that will be discharged to the storm sewer, and you must submit this analytical data along with your SWPPP. Depending on the characterization of the discharge, you must select the appropriate benchmark monitoring table(s), described below. A description and schematic drawing of a treatment system capable of treating pollutants of concern at the site, and plans showing the location of the system in relation to the storm sewer and sampling ports, must be included in your SWPPP. If the system is already installed, you must provide the last three months of monitoring data. Your SWPPP must also include contingency plans and procedures for system malfunction and failure.

3 Sector–Specific Monitoring and Reporting Requirements

A. You must collect and analyze samples of the treated ground water and document monitoring activities that are consistent with the procedures described in Part 6 and Appendix B, Subsections 10-12, and the additional specific requirements below.

B. Effluent samples must be monitored quarterly for the entire permitting period. Samples must be taken from each outfall of the final treatment unit, but prior to mixing with any other waters.

C. Benchmark monitoring must be conducted for every quarter for the permit term. The monitoring must be conducted during the entire term of the permit and the results evaluated after the sequential collection of values from 4 quarterly samples. You must continue to monitor quarterly even if the average of the monitoring values from the collection of the four (4) quarterly samples do not exceed the benchmark. The quarterly sampling must continue even if you make a determination 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 the water-quality-based effluent limitations below.

D. During the April 1 – June 30 quarter of every calendar year, or twelve months after authorization to discharge under this permit, whichever is later, you must test the untreated influent for potential new contaminants by monitoring samples for both conventional as well as non-conventional pollutants, including, but not limited to, pH, pesticides, VOCs, SVOCs, PAHs, benzene, toluene, ethyl-benzene, naphthalene, MTBE, total xylenes, total petroleum hydrocarbons, PCBs and metals. Depending on the results, EPA may set effluent limits and monitoring requirements for additional parameters. You are required to conduct this influent characterization test once for each sequential twelve month period the discharge continues.

4. Benchmark Monitoring

The following tables identify benchmarks that apply to specific subsectors of Sector AD. Benchmarks are based on conservative D.C. water quality standards, and are in compliance with the District's Total Maximum Daily Loads.

BENCHMARKS FOR DISCHARGES FROM SITES WITH GASOLINE CONTAMINATION (1)

Parameter	Benchmark Monitoring Concentration	Sample Type
Flow (MGD)	NL	Estimate
Benzene (µg/L)	51.0	Grab
Toluene (µg/L)	600	Grab
Ethylbenzene (µg/L)	40	Grab
1,2 Dichloroethane (µg/L)	37.0	Grab
Total Recoverable Lead (µg/L)	$[e^{(1.2730(\ln(\text{hardness})-4.705)}]$	Grab
Hardness (mg/l)	NL	Grab
pH	6.0- 8.5	Grab

(1) – monitoring shall be conducted quarterly
NL = No limitation, monitoring required.

BENCHMARKS FOR DISCHARGES FROM SITES CONTAMINATED WITH PETROLEUM PRODUCTS OTHER THAN GASOLINE(1)

Parameter	Benchmark Monitoring Concentration	Sample Type
Flow (MGD)	NL	Estimate
Naphthalene (µg/L)	600	Grab

Total Petroleum Hydrocarbons (mg/L)	15.0	Grab
Benzene (µg/L)	51.0	Grab
pH	6.0- 8.5	Grab

(1) – monitoring shall be conducted quarterly
NL = No limitation, monitoring required.

BENCHMARKS FOR DISCHARGES FROM SITES CONTAMINATED WITH CHLORINATED HYDROCARBONS(1)

Parameter	Benchmark Monitoring Concentration	Sample Type
Flow (MGD)	NL	Estimate
Chloroform (µg/L)	470	Grab
1,2 Dichloroethane (µg/L)	37	Grab
1,1 Dichloroethylene (µg/L)	7,100	Grab
Trans-1,2 Dichloroethylene (µg/L)	10,000	Grab
Methylene Chloride (µg/L)	590	Grab
Tetrachloroethylene (µg/L)	3.3	Grab
1,1,2 Trichloroethane (µg/L)	16.0	Grab
Trichloroethylene (µg/L)	30.0	Grab
Vinyl Chloride (µg/L)	2.4	Grab
Carbon Tetrachloride (µg/L)	1.6	Grab
1,2 Dichlorobenzene (µg/L)	200	Grab
Chlorobenzene (µg/L)	1,600	Grab
pH	6.0-8.5	Grab

(1) – monitoring shall be conducted quarterly
NL = No limitation, monitoring required.

BENCHMARKS FOR DISCHARGES FROM SITES CONTAMINATED WITH PCBs(1)

Parameter	Benchmark Monitoring Concentration	Sample Type
Flow (MGD)	NL	Estimate
PCBs (total)	No Discharge*	Grab

(1) – monitoring shall be conducted quarterly
NL = No limitation, monitoring required.
* = Samples must be analyzed using both EPA Method 608 and Method 1668A, only Method 608 will be used for benchmark evaluation.