Department of Natural Resources - Position Description

Working Title: Stormwater Engineer
Classification Title: Water Resources Engineer-Advanced
Work Location: Bureau of Watershed Management – Southeast District

Purpose of the Position:
This position will provide advanced professional engineering expertise to implement the Department's Stormwater Permit program, the urban Nonpoint pollution control program, and watershed management activities in assigned counties within a geographic area stationed in Southeast District. This position is a primary engineer in an assigned county/counties responsible for providing technical engineering review and engineering support in the areas of municipal MS4 permits, industrial permits, statewide technical standards, and post-construction stormwater management and construction site erosion control.

This position is also responsible for providing engineering review of project applications for Department stormwater management grants and loans, and leading development of performance and technical standards and guidance development. Additional activities related to this position will include issuance of Wisconsin Pollutant Discharge Elimination System (WPDES) permit coverage for stormwater discharges from municipal, industrial, and construction sites; review and approval of stormwater management plans; monitoring of permit requirements; providing guidance and training to permittees; conducting compliance inspections; and initiating enforcement actions when necessary.

Responsibilities will also include tracking, record-keeping, and enforcement of stormwater permits, coordination, review and approval of urban Nonpoint pollution control activities and participation in watershed management objectives within the assigned geographic area. Urban Nonpoint pollution control activities will include providing guidance to municipal officials, assistance in applications for grants reviews of plans for Nonpoint pollution and approval of these plans. Watershed management activities include review and implementation of complex (i.e. controversial, large, and/or unique projects, ect.) cross program objectives, including Total Maximum Daily Load (TMDL) implementation plans, participation on appropriate workgroups, such as TMDL sector or statewide policy/implementation teams, and implementation of alternative water quality compliance approaches, such as Adaptive Management and Water Quality Trading.

Scope of Authority:
This position is supervised by the Watershed Management Supervisor, Southeast District in the External Services Division, Watershed Management Program. This position is non-supervisory.

Location, Geographic Scope, and Travel Requirements of Position: This position will be located in Milwaukee, Waukesha or Plymouth and will have **exclusive** responsibilities in assigned counties throughout the 8 County Southeast District and potential for support in adjacent areas as necessary. No overlap of geography will occur with other similarly classified External Services staff. This position will require travel throughout the assigned geographic area for meetings and field inspections and will require some occasional statewide travel and overnight stays for meetings, trainings, or to provide program implementation support, and may require minimal out-of-state travel. Remote work may be available.

Position Summary: This position is responsible for the implementation of the municipal (MS4), construction, and industrial stormwater programs in accordance with Section 1251-1387 of the Clean Water Act, ch. 283, Wis. Stats., and chs. NR 151 and 216, Wisconsin Administrative Code. The position is responsible for technical engineering review and engineering support for the construction, municipal, and industrial stormwater permit program, as well as engineering review and approval of stormwater projects and assistance with engineering

review of grant applications related to the urban planning and construction nonpoint grant program and the state targeted runoff management grant. The position provides critical support for the Department's water resource lake planning grant management systems, alternative water quality compliance approaches, and TMDL implementation.

TIME	GOALS AND WORKER ACTIVITIES

50% A. Provide advanced professional engineering expertise to assure and provide technical engineering reviews related to stormwater management and construction site erosion. Work independently and serve as the primary engineer within this assigned geographic area to address a broad range of projects. Use independent judgment in making professional engineering decisions.

A.1. Review permit applications and associated engineered stormwater management plans and specifications for compliance with state stormwater regulations.

A.2. Review stormwater management engineering plans and specifications for projects that involve Department grants and loans.

A.3. Evaluate complex modeling of erosion control and stormwater management practices for compliance with state standards.

A.4. Communicate results of engineering evaluations by e-mail, telephone, letter and meetings with consulting engineers and municipal, construction and industrial officials and stormwater staff.

A.5. Provide assistance to staff, permit applicants and the public on stormwater program engineering and technical issues.

A.6. Conduct technical reviews of engineered erosion control and stormwater management plans to assist with regional enforcement actions.

A.7. Lead development and modifications of performance and technical standards associated with best management practices and requirements pertaining to erosion control and stormwater management.

A.8. Give regulatory and technical engineering presentations at meetings of industrial, municipal and construction groups.

A.9 Represent the Department and function as technical contact for surface water regulatory issues with stormwater-related businesses and associations, local counties and citizens groups. Attend meetings and work collaboratively with business interest groups and local citizens to address environmental regulatory issues related to surface waters.

A.10. Serve as a statewide engineering point of contact for Department management and staff, partner agencies, members of the regulated community, and citizens for assigned projects. Respond to press and public inquiries about DNR surface water permitting requirements.

A.11. Serve as a statewide technical contact for other department divisions and agencies including Counties, State and Federal regulatory programs, for complex inter-program issues related to municipal, construction and industrial stormwater.

30% B. Stormwater program administrative, compliance verification, and enforcement responsibilities.

B.1. Process applications for coverage under municipal, industrial and construction site permits and update the statewide stormwater database to track such applications and permitted facilities.

B.2. Respond to telephone and e-mail inquiries and complaints from permit-holders and members of the public regarding stormwater program issues.

B.3. Share information, attend meetings and assist, as appropriate, to implement state stormwater regulations. Advise the public on prevention of stormwater contamination.

B.4. Conduct field inspections for compliance with stormwater permit requirements, including complaint investigation and documentation of the findings.

B.5. Respond, investigate and follow through on complaints relating to stormwater situations in assigned geographical area.

B.6. Serve as an expert witness in enforcement actions, including those involving stepped enforcement, to address stormwater management violations.

B.7. Prepare and disseminate written information, make public appearances, prepare training seminars and meetings, and participate on technical programs regarding stormwater requirements to industry groups, municipalities, contractors and others with interest in the program.

B.8. Mentor and train staff, as requested.

15% C. Stormwater program administrative and project responsibilities.

C.1. Lead development of stormwater and waterway and wetland standards, policies, or administrative codes and revise or develop new standards, policies, or rules for statewide application and implementation. Participate on statewide teams, committees and groups that require input on stormwater-related issues and information.

C.2. Attend and participate in statewide and district technical meetings and symposiums related to stormwater practices and surface water protection.

C.3. As a part of an engineering team; provide direction, develop and implement statewide technical training and program safety standards for department staff reviewing and issuing water permits.

C.4. Develop innovative and incentive-based program provisions in cooperation with industry and trade groups that encourages their self-accountability of environmental responsibilities.

5% D. Organizational Responsiveness.

D1. Review and keep informed of changes in technical knowledge and field practices for position-related activities.

D2. Participate in job-related training and organizational meetings, as assigned by supervisor.

D3. Prepare forms and reports, as necessary, for personnel and budget accounting purposes in a timely manner.

D4. Perform other position-related duties as assigned.

D5. Follow all general and position-related safety requirements.

Knowledge Skills and Abilities

1. Skill in initiating and managing projects with minimal supervision.
2. Skill in the use of Personal computers with an emphasis on use of the Microsoft Office Suite (i.e., MS-Word, MS-Excel, MS-Project, MS-PowerPoint).
3. Knowledge of Federal Clean Water Act requirements for Total Maximum Daily Load development.
4. Ability to interpret and apply principles and practices of surface water quality monitoring and data interpretation to assess biological, chemical, and physical features of lakes, rivers, and streams.
5. Knowledge of freshwater community ecology with an emphasis on understanding the effects of toxic and conventional pollutants on humans, wildlife, and fish and other aquatic life.
6. Ability to interpret and apply State and federal laws and Wisconsin Administrative Rules (Chapters NR 102, 104, 105, 106, 120, 152,153, 154, 216, 243 and 207) pertaining to surface water quality standards.
7. Skill in the use of Arc Info, Arc View and other GIS computer technology.
8. Knowledge of socio/economic and environmental facets of water quality planning and management activities.
9. Knowledge of Wisconsin Pollution Discharge Elimination System program for the management of stormwater or wastewater from point sources.
10. Knowledge of Wisconsin's agricultural, urban and construction site stormwater management program as it relates to the development of TMDLs.
11. Skill in data entry, retrieval, and management using databases.
12. Project management experience in a lead role with direct experience in initiating and managing projects with minimal supervision.
13. Knowledge of wetlands, including hydrology and plants.
14. Experience with runoff management models (e.g., WinSLAMM, P8 and hydrologic models such as Hydrocad).
15. Skill in oral and written communication

Special Requirements:

Must have **one** of the following:

- Registration as a Professional Engineer as determined by the Department of Safety and Professional Services per s. 443.04, Wis. Stats.;
- A specific record, issued by the professional engineering section of the Department of Safety and Professional Services, showing 4 years or more of experience in engineering work of a character satisfactory to the professional engineering section and satisfactory completion of the fundamentals of engineering exam;
- Have graduated from a recognized college or university with a degree in a related engineering field such as civil, chemical, electrical, environmental, or mechanical engineering; or has successfully completed the DNR engineering equivalency examination;
- Have equivalent professional training and practical experience so as to be deemed a professional engineer as defined in Department of Safety and Professional Services per s. 443.01, Wis. Stats. AND also deemed to be qualified to engage in professional engineering practice as determined by the Department of Safety and Professional Services per s. 443.04 or 443.05, Wis. Stats.

Physical Requirements and Environmental Factors:

Strength requirements: Regular physical work for conducting site inspections and compliance determination, including walking in various terrain, carrying field equipment, and digging soil pits. Occasional sedentary office work (exerting up to 10 pounds of force occasionally and/or a negligible amount of force frequently).

Physically: This position will spend approximately 75% of time indoors in an office setting.

Environmental Factors: This position will on occasion spend more than one hour outdoors in varying weather conditions.

Equipment Used: Office equipment including telephone, computer hardware and software. Field equipment for site reviews, including digital camera, GPS unit, soil boring instruments and shovels.

Remote Work Evaluation: Telework may be available for this position upon successful completion of the probationary period.