

2009 24th Annual CONFERENCE ON THE ENVIRONMENT

November 12, 2009

Earle Brown Heritage Center, Brooklyn Center, Minnesota

SPEAKER BIOGRAPHY SHEET

The following information will be used by session moderators in introducing presentations for the conference. The conference is sponsored by the Minnesota Section, Central States Water Environment Association, a member association of the Water Environment Federation, and the Air & Waste Management Association – Upper Midwest Section.

Name: Karen Jensen

Organization: **Metropolitan Council**

Address: 390 North Robert Street

St. Paul, MN 55101

Phone: 651-602-1401

Email: **Karen.jensen@metc.state.mn.us** _____

Professional Title: **Environmental Engineer**____

Brief Professional History/Awards/Publications:

Have been at MCES since 1998, working on watershed hydrologic and water quality modeling, innovative BMP design and construction, and industrial site stormwater management

1993-1998 at Barr Engineering Company as project manager and water resources engineer

Education Background:

M.S. Civil Engineering U of MN

BA Chemistry Augsburg College

Title of Presentation: Innovative Stormwater Management at Empire WWTP

Brief Presentation Description: The Empire Wastewater Treatment Plant, owned and operated by Metropolitan Council Environmental Services (MCES), is located near the City of Farmington in rural Dakota County. Originally built in 1979, the plant capacity was recently expanded from 12 mgd to 24 mgd. Historically the plant effluent has discharged to the Vermilion River, a designated trout stream which flows through the plant property.

During planning of the plant expansion, MCES management decided to include a number of innovative stormwater features to both protect the Vermilion River and to serve as example projects for communities in the rapidly-growing south metro area. Stormwater features at Empire include several large infiltration basins (rain gardens), pervious parking areas, vegetated swales, native flower gardens, wetland restoration, and a green (vegetated) roof. Additionally, a new 13-mile pipe was constructed, diverting effluent from the Vermilion to the Mississippi River.

This presentation will discuss the selection, design, construction, and maintenance of the innovative stormwater practices and will also include a brief discussion of the format and method used to prepare the NPDES Industrial Stormwater Permit SWPPP in conformance with recently-released permit requirements.

Project Status (if applicable): 90% Constructed

Additional Information: _____

_____ will you agree to bring a CD, or a USB memory stick? Yes No _____

Presentation Aids (please check those applicable):

Overhead projector Slide projector LCD projector Other