

## Professional Resume

**Jo-Walter Spear, Jr., P.E.**

*Project Manager*

*Engineer*

*Modeler*

Jo-Walter Spear, Jr. is a degreed and licensed engineer with sixteen years of experience in solid waste, surface water, and environmental engineering. His experience is diverse including computer modeling, GIS, site civil, survey, data management, and regulation.

Mr. Spear's experience is split between the public and private sector, in site and design practices, along with program development and maintenance. He has the unique experience of supervising the construction crews building the facilities he designed and the responsibility for the maintenance of those structures and/or facilities

Jo has four years of experience reviewing storm water management plans and storm water pollution prevention plans in six states. One year of review under the US EPA NPDES Phase II regulations. His experience has given him insight into the constructability of storm water and erosion control structures, longevity and workability of various BMP applications, and an understanding of storm water management on a watershed scale. Mr. Spear also became well involved with the permit process at the local and federal level.

While employed with the Sarasota DPW, Jo developed Storm Water plans for various ranges of projects to improve water quality and reduce water quantity. The completion of projects included a complete maintenance and monitoring plan. For projects of greater than 5 acres of contributing runoff, Mr. Spear had to employ the use of Computer Modeling. He is proficient with both: Advanced Inter-Connected Pond Reach (AdICPR) Model and XP Software's Storm Water Wastewater Model (XPSWMM). He also received additional training in permit acquisition and trained junior engineers.

Jo has spent the last nine years working in Wisconsin. Prior to joining J Spear Associates, Jo had been a WisDOT qualified inspector for environmental and construction details, and prepared environmental reports for WisDOT and WDNR. Jo has been with J Spear for over five years and has continued to develop his surface water engineering career.

### **EDUCATION**

BSCE – 1991  
Widener University

### **EXPERTISE**

Storm Water Utility Development

Hydraulic and Hydrologic Design

Design Maintenance and Monitoring

Surface Water Modeling

Wetland Preservation / Restoration

Grant Writing

Site Design

Facility Design, Maintenance, and Monitoring

Operations Development

Site Civil Inspection

Erosion Control

### **LICENSE AND CERTIFICATIONS**

Professional Engineer,  
Wisconsin, E 37498

SWANA MOLO 2007

### **PROFESSIONAL MEMBERSHIPS**

APWA, WAPWA  
ASCE, WasteCap WI

## **Selected Project Experience**

### *Site Development; Wabash County Solid Waste Management District (WCSWMD) – Wabash, Indiana*

Designed redevelopment of the site for administrative offices, recycling drop-off, recycling storage, and surface water reuse. The existing facility design was supplemented with the addition of household hazardous waste (HHW) pad, recycling drop-off structure, and a stormwater management plan. His design incorporated runoff protection to neighboring properties, zero runoff, water quality improvement, and groundwater protection.

### *Steuben County Compost Lot; Northeast Indiana Solid Waste District (NISWMD) - Steuben, Indiana*

Compost lots are producers of contaminated runoff due to the buoyant nature of compostable materials, primarily after chipping. The subject site is adjacent to County property and a large lake used for recreational purposes. To protect the lake in both appearances and water quality, Jo designed the site to have zero discharge. A drop-off facility was also designed for the site to allow the disposal of MSW and recyclables without contamination of the green waste.

### *NISWMD Ashley Site; Northeast Indiana Solid Waste District – Ashley, Indiana*

The NISWMD has a 37 acre parcel that houses their administrative offices, work areas, and fleet parking. The client additionally requested the site design to include a 10 acre compost facility and 5 acre MRF/Transfer Facility. Jo's design incorporated the component locations to benefit one another and provided multi-use, shallow drainage basins.

### *Potawatomi EPA – Forest County Potawatomi, WI*

For nearly a year Jo acted as the Environmental Protection Agency staff for the Forest County Potawatomi. Duties included environmental, grant, GIS, and program management. He also trained Potawatomi EPA staff as they were hired and provided a database to manage and track Potawatomi EPA grant statuses.

### *Lincoln Creek Reach 6; Milwaukee Metropolitan Sewerage District (MMSD) – Milwaukee, WI*

Prior to joining for J Spear Associates, Jo served as Owner's Representative for the MMSD during the reconstruction of Lincoln Creek's channel of Reach 6. Responsibilities consisted of adhering to plans, review plan modifications, enforcement of state and local ordinances, and creation of a pictorial history of the construction. Reporting to MMSD personnel was also essential.

### *Master Basin Modeling, Stormwater Environmental Utility (SEU) – Sarasota, Florida*

Prior to joining J Spear Associates, Jo used a database in conjunction with Advanced Interconnected Pond Reach (AdICPR) modeling software to develop a model of 3, 1000+ acres drainage basins in Sarasota County. Each model had to adequately depict current conditions within the basin and provide geographic location of areas that did not meet level of service or structure flooding. Proposed improvements would be implemented into the model to evaluate solutions. The model used existing GIS data and field data provided by the Drainage Operation division of SEU.

*Administration, SEU – Sarasota, Florida*

In six years with SEU, Jo spent three of them working for the Administrative Division. Jo was responsible for aiding in the production of the US EPA NPDES Phase II Municipal Permit, creation of storm water ordinances, basin master planning, and managing GIS implementation with all systems. He also was solely responsible for review of storm water plans within Sarasota County. Public interaction was a necessity while working for County Government, Jo attended (as a public servant) all SEU public meetings to provide technical and fiscal information.

*Operations & Maintenance, SEU - Sarasota, Florida*

As an Engineer II with the Operations & Maintenance Division of SEU, Jo managed projects ranging from feasibility studies to design and construct projects. Primarily dealing with stormwater system maintenance, flood reduction, and water quality. In addition, Jo spearheaded the conversion and record of the County wide stormwater structure inventory.