

## Oakwood CSO Control Facilities and Pump Station CS-1364

Detroit, Michigan



**Spalding DeDecker Associates, Inc. (SDA)** participated with a group of consultants to study, design, and provide construction engineering services for a large Combined Sewer Overflow (CSO) control facility project located in the southwest portion of the City of Detroit near the Rouge River.

The project consisted of two principal elements, a nominally nine million gallon capacity detention treatment basin and nominally 1,800 cfs sanitary and wet weather pump station to replace the Detroit Water and Sewerage Department's (DWSD) existing Oakwood Pump Station set adjacent to the O'Brien Drain (Outfall 082) tributary to the Rouge River.

DWSD operated and maintained the Oakwood Pump Station that principally services the Oakwood Sewer District. The District is located in the extreme southwest portion of the City of Detroit, bounded by the cities of Ecorse, Dearborn, Lincoln Park,

Melvindale, and River Rouge. The district's tributary sewer system consists of combined sewers, which drain an area of nearly 1,500 acres. These sewers drain to the Oakwood Pump Station, which in turn, lifts tributary flow from the District into the Northwest Interceptor (NWI) at Fort Street, just west of the Rouge River. Excess combined flows are discharged into the Rouge River through the O'Brien Drain. The Michigan Department of Environmental Quality (MDEQ) has classified this discharge into the Rouge River receiving waters as Outfall 082. As required under provisions of the National Pollutant Discharge Elimination System (NPDES) Permit, DWSD developed a long-term CSO Control Plan to Rouge River Outfall 082.

SDA was responsible for providing site survey (topographical and boundary surveys) and preparing construction documents. SDA also provided construction observation services on an as-needed basis for installation of the 11'x 6' box, effluent conduit, and outfall head wall construction.

### OWNER / CLIENT

City of Detroit

### PROJECT START - END

April 2004 – December 2010

### SDA PROJECT NO.

UI04-008