

PHILADELPHIA, PA WATER POLLUTION CONTROL FACILITY

Client: City of Philadelphia,
Pennsylvania

Project Manager:
Daniel J. Coughlin, P.E.



Mr. Coughlin was Project Manager for this project which involved the evaluation and assessment of the 210 MGD Southwest Wastewater Treatment Facility in Philadelphia, PA treatment facility in terms of its original design, its operations and maintenance and its general management due to past compliance and performance issues. Due to operational and performance problems in several areas of this Pure O2 activated sludge facility, a full engineering review was commissioned in compliance with a Judicial Consent Agreement, entered into by the City with EPA and state regulatory authorities which stipulated very tight time frames for review and evaluation efforts. Mr. Coughlin examined the original design criteria for the facility and current operational settings and process management. Evaluation efforts were concentrated on the non-performing processes, current influent, side-stream and process loadings, current operational procedures and an assessment of historic plant modifications and permit compliance.



Mr. Coughlin managed the break down of the voluminous historic data and performed a detailed review of process and operational settings. The primary process interference was identified as the recycle flow from the adjacent sludge compost facilities, which created biological process stresses, and in turn resulted in several design parameters and operational criteria being exceeded. A comprehensive evaluation report was prepared detailing corrective process and flow stream modifications, as well as other plant modifications to improve performance and facilitate permit compliance. Budgetary costs and implementation schedules were also developed.



The total value of recommended facilities was \$1,500,000.



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