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Publication # 93-10-201

TOTAL MAXIMUM DAILY LOAD

Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Developed pursuant to 40 CFR 130.7 and the Federal Clean Water Act

WATERBODY SEGMENT: WA-09-9260

Lake Sawyer

(outlet at TRS 21N-06E-04)

RECEIVING SYSTEM INFORMATION:

Basin: Duwamish-Green
County: King

TMDL PARAMETER:

Total Phosphorus

APPLICABLE RULES:

WAC 173-201-035(8)
WAC 173-201-045(5)(viii)

SOURCES COVERED BY THIS TMDL:

Allocation

<u>Type</u>	<u>Source Description</u>
WLA	Black Diamond WWTP
LA	Tributaries to Lake Sawyer
LA	Internal Loading

TMDL:

The goal of maintaining an average in-lake total phosphorus concentration of 16 ug P/l has been identified in a technical study prepared by Ecology. This goal is expected to be achieved by setting the WLA of the Black Diamond WWTP to 0 kg P per day by removal of the discharge from the lake's main inflow. The loading capacity of total phosphorus to Lake Sawyer necessary to achieve this goal is estimated to be 1.9 kg P per day (715 kg P/yr). This estimated loading capacity is likely to be achieved from a LA to the tributaries of 1.4 kg P per day (which includes a 0.08 kg P per day allocation for uncertainty) and a LA from internal loading of 0.54 kg P per day (which includes a 0.34 kg P day allocation for uncertainty).

Technical Documents:

Carroll, J.V. and G.J. Pelletier. 1991. Diagnostic Study of Lake Sawyer, King County, Washington. Washington State Department of Ecology, Olympia, WA.

Pelletier, G.J. and J.W. Joy. 1989. Lake Sawyer - Black Diamond Waste Load Allocation Evaluation. Washington State Department of Ecology, Olympia, WA.

Public Participation:

Several advisory committee and public meetings have been held in conjunction of the Black Diamond WLA and Lake Sawyer Diagnostic studies. The final decision has been to reduce the WLA to zero through conveyance of the effluent to Seattle METRO's Renton WWTP.

Implementation:

A construction grant from EPA has been awarded to the City of Black Diamond to build the interceptor. The project is scheduled to be completed in the summer of 1992.

Monitoring:

Seattle METRO conducts routine monitoring of nutrients and water clarity of Lake Sawyer.