Memo to: Howard Bunten

From: Dan Glantz
Subject: Rockford Lagoon Survey
The survey was conducted on May 22, 1974, by Mike Harris. The weather was warm and clear. Mike contacted Mr. Carl Schmidt, the operator of the lagoon, and obtained access through the gate into the area of the ponds. Both ponds have large amounts of duck weed growing around the banks. There was hardly any flow coming out the effluent. During the summer, the receiving stream, Rock Creek, dries up completely.

Conductivity figures obtained from the lab report do not appear reliable and are in contrast to the field report. Total Kjeldahl was not run as the holding time for the sample had expired. Coliform is higher than it should be and it could be reduced with chlorination which is not being used at this time.

The field and laboratory reports are attached for your reference.
DG: jmh

## Efficiency Study



## Field Results

Influent
7 Determinations
Temp ${ }^{\circ} \mathrm{C}$
pH (Units)
Conductivity
( $\mu \mathrm{mhos} / \mathrm{cm}^{2}$ )
Settleable
Solids (mls/l)
Max. Min. Mean
Median

| 12.5 |
| ---: |
| 8.3 |
| 800 |
| 3 |

Max. Min.

| 15.5 | 15.0 |
| :---: | :---: |
| 8.0 | 7.4 |
| 500 | 475 |
| Tr | 0 |


| 15.5 |
| :---: |
| 7.5 |
| 500 |

Laboratory Results on Composites

Influent
24-1891
$\begin{array}{r}125 \\ \hline 163 \\ \hline \begin{array}{r}517 \\ \hline 108 \\ \hline 24 \\ \hline 7.5 \\ \hline\end{array}\end{array}$
$\frac{* 7300}{48}$

Effluent
74-1892

$\begin{array}{r}* 4700 \\ \hline\end{array}$
\% Reduction

$$
\begin{array}{r}
87 \% \\
\hline 57 \% \\
\hline-35 \% \\
\hline-79 \% \\
\hline 71 \% \\
\hline
\end{array}
$$




## Additional Laboratory Results

| $\mathrm{NO}_{3}-\mathrm{N} \mathrm{ppm}-$ | . 24 |
| :---: | :---: |
| $\mathrm{NO}_{2}-\mathrm{N}$ ppm - | N. D. |
| $\mathrm{NH}_{3}-\mathrm{N}$ ppm - | $\cdots-$ (1) |
| T. Kjeldahl-N ppm | --- (1) |
| $\mathrm{O}-\mathrm{PO}_{4}-\mathrm{P} \mathrm{ppm}-$ | 3.20 |
| $\mathrm{T}-\mathrm{PO}_{4}-\mathrm{P}$ ppm - | 5.0 |

(1) Not analyzed - holding time expired.

Operator's Name Carl Schmidt Phone No.

Furnish a flow diagram with sequence and relative size and points of


Type of Collection System


COMMENTS: $\qquad$

