

August 26, 1974

State of
Washington
Department
of Ecology



Memo to: Ron Robinson

From: Mike Tomlinson

Subject: Ocean City Park Lagoon

The lagoons were heavily overgrown with brush. The second lagoon (at that time, empty) allowed for a considerable overflow. It is recommended that the dike be cleaned up and all litter (plastic bags, etc.) be removed from the lagoons.

MT:jmh

STP Survey Report Form

Efficiency Study

City Ocean City Pk. Plant Type Lagoon Pop. Served 500 (Wk ends) Design ?
250 (Wk days) Capacity
 Receiving Water Ground Perennial X Intermittent _____
 Date 07/16/74 Survey Period _____ Survey Personnel Lindskog, Tomlinson
 Comp. Sampling Frequency NA Sampling Alequot Grab
 Weather Conditions (24 hr) Rain Are facilities provided for complete by-
 pass of raw sewage? Yes X No/Frequency of bypass NA
 Reason for bypass NA Is bypass chlorinated? NA Yes _____ No _____
 Was DOE Notified? NA Discharge - Intermittent _____ Continuous _____

Plant Operation

Total flow See population estimates How measured Not measured
 Maximum flow _____ Time of Max. summer
 Minimum flow _____ Time of Min. winter
 Pre Cl₂ NA #/day _____ Post Cl₂ NA #/day _____

Field Results

Determenations	EFFLUENT LAGOON				Effluent			
	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp °C		16						
pH (Units)		6.3						
Conductivity (µmhos/cm ²)		1250						
Settleable Solids (mls/l)								

Laboratory Results on Composites

Laboratory No.	EFFLUENT LAGOON	Effluent	% Reduction
	<u>74-2927</u>	_____	_____
5-Day BOD ppm	<u>107</u>	_____	_____
COD ppm	<u>470</u>	_____	_____
T.S. ppm	<u>688</u>	_____	_____
T.N.V.S. ppm	<u>325</u>	_____	_____
T.S.S. ppm	<u>221</u>	_____	_____
N.V.S.S. ppm	<u>0</u>	_____	_____
pH (Units)	<u>7.7</u>	_____	_____
Conductivity (µmhos/cm ²)	<u>1090</u>	_____	_____
Turbidity (JTU's)	<u>30</u>	_____	_____
<u>CHLORIDES</u>	<u>62.0</u>	_____	_____

Laboratory Bacteriological Results

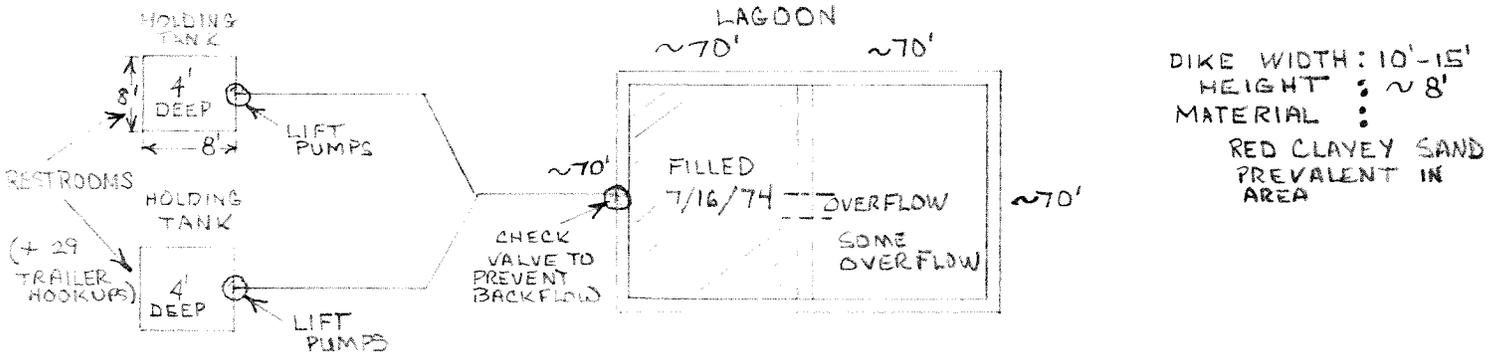
Lab No.	Sampling Time	Colonies/100 ml (MF)			Cl ₂ Residual
		Total Coliform	Fecal Coliform	Fecal Strep	
		>40,000	>4,000	----	

Additional Laboratory Results

NO ₃ -N ppm	-	0.05	
NO ₂ -N ppm	-	0.07	
NH ₃ -N ppm	-	90.0	
T. Kjeldahl-N ppm	-	----	
O-PO ₄ -P ppm	-	7.4	
T-PO ₄ -P ppm	-	11.0	

Operator's Name Al Bergh - Manager Phone No. 289-3553

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



Type of Collection System

Combined Separate Both
 No storm sewers in park

Estimate flow contributed by surface or ground water (infiltration)

_____ ? _____ MGD

Plant Loading Information

Annual average daily flow rate (mgd)

Peak flow rate (mgd)

Dry See population estimates

Dry _____

Wet _____

Wet _____

COMMENTS: No leaks apparent in dike, lagoons definitely have sufficient capacity for present crowds, dike rather heavily overgrown with brush.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

ORIGINAL TO:
M. Tomlinson
COPIES TO:
.....
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LAB FILES

DATA SUMMARY

Source Ocean City St. Park

Collected By M.T.

Date Collected 7-16-74

Goal, Pro./Obj. _____

Log Number:	74- 2922								STORET
Station:	CRAB LAB								
pH	7.7							00403	
Turbidity (JTU)	30.							00070	
Conductivity (umhos/cm)@25°C	1,090							00095	
COD	470.							00340	
BOD (5 day)	107.							00310	
Total Coliform (Col./100ml)	>4x10 ⁴							31504	
Fecal Coliform (Col./100ml)	>4,000							31616	
NO3-N (Filtered)	.05							00620	
NO2-N (Filtered)	.07							00615	
NH3-N (Unfiltered)	90.							00610	
T. Kjeldahl-N (Unfiltered)	—*							00625	
O-PO4-P (Filtered)	7.4							00671	
Total Phos.-P (Unfiltered)	11.0							00665	
Total Solids	688							00500	
Total Non Vol. Solids	325								
Total Suspended Solids	221							00530	
Total Sus. Non Vol. Solids	ND.								
Chlorides	62.								

Note: All results are in PPM unless otherwise specified. ND is "None Detected"
Convert those marked with a * to PPB (PPM X 10³) prior to entry into STORET
* Rejected due to accident in the analysis
Summary By Stephen P. Roll Date 8-19-74