### MEMORANDUM

August 7, 1975

WA-01-0020

To: Files

From: Dan Glantz

Subject: Drayton Harbor, Bellingham Harbor,

Guemes Channel and Swinomish Channel

On July 7 (Monday) Darrel Anderson and myself towed the "Glassply" to Bellingham and had it put in the water at the yacht club in preparation for the sampling tour.

On July 8, John Glynn of the Redmond office joined us and we proceeded toward Drayton Harbor at Blaine. The previous night the area experienced a severe thunder and lighning storm with considerable rain. The thunder and lightning, though moderating, continued through much of the morning, at least in the Bellingham-Lummi Island area. There were small whitecaps, but generally the water was not too rough. It was the first day for the purse seiners and it was necessary, at times, to proceed cautiously in order to avoid their nets.

In Drayton Harbor, we took our first samples and lowered the "Hydro-lab". The time was 10:25. Reference to attached copies of the Field Book will provide information regarding parameters, locations, etc. Commencing with station 005 we moved south to the refinery docks at Cherry Point and the Intalco Dock, same location. At Intalco a bottom sample was taken with a Petersen dredge to determine fluoride concentration. The final sampling of the day was done in the Sandy Point Harbor adjacent to new housing development in the area.

The following day, July 9, we left our mooring in Bellingham Harbor and moved south to the Shell and Texaco refinery docks off Fidalgo Island near Anacortes. Sampling and testing commenced at 0930 near the Shell diffuser. Again, refer to attached field book data for details. Weather was much improved over the previous day.

An attempt was made to approach Publisher's Forest Products outfall; however, the water in Fidalgo Bay was too shallow and the tide was outgoing. We moved down into Guemes Channel and sampled near the Anacortes STP outfall. Again moving south we attempted sampling near the Skyline STP outfall, but here too the outgoing tide would not allow us near enough. However, based on previous observations of this STP with its low flow, it is doubtful there would be any significant effect.

As we left the Skyline area we encountered heavy fog. Our radar was defunct and we proceeded cautiously by compass. We broke out of the fog on target at Deception Pass and were able to clear the Pass with full visibility. Coliform samples were taken off Dewey Beach and near the piling in Similk Bay where there have been reports of problems with the oysters.

Our course next took us through Skagit Bay where we sampled off Snee-oosh Beach in the Hope Island area. We then entered the south end of Swinomish Channel and proceeded toward LaConner where additional samples were taken. The "in town" coliform readings (see Lab Report) were not surprising as visible signs of contamination were quite evident. Fortunately the new LaConner STP should go on stream within a matter of weeks thereby reducing or eliminating much of this direct outfall from the town and the canneries. Above town, the channel clears considerably.

The final day, July 10, was bad, weatherwise. It was fortunate we had arranged our schedule to take care of the farthest locations the previous days as we would not have travelled far under these conditions. We first sampled near Mt. Baker Plywood inside the breakwater then went out to Post Point near the outfall from Bellingham's new STP. Samples and readings were taken at several depths under rather difficult conditions. We then returned to Inner Bellingham Bay and Whatcom Creek Waterway adjacent to the Georgia-Pacific operation. Contamination is evident in the entire area and is confirmed by the lab reports. PBI readings were extremely high near the surface with substantial readings at 15' and 20' in some areas.

This concluded our sampling and reading.

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ORIGINAL TO: D. GLANTZ

COPIES TO:

DATA SUMMARY

Source DRAYTON HER. Bham BAY - BIRCL BAY

Collected By GLANTZ & ANDERSW

Date Collected 7.8.75						Go	al, Pr	o./0bj.	•	
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рН										00403
Turbidity (JTU)										00070
Conductivity (umhos/cm)@25C										00095
COD										00340
BOD (5 day)										00310
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Fecal Coliform (Col./100ml)	E57 75	48	537 75	45	E3T 16	EST 8	15	<b>45</b>		31616
NO3-N (Filtered)										00620
NO2-N (Filtered)										00615
NH3-N (Unfiltered)										00610
T. Kjeldahl-N (Unfiltered)										00625
O-PO4-P (Filtered)				·						00671
Total PhosP (Unfiltered)										00665
Total Solids										00500
Total Non Vol. Solids							Ţ,			
Total Suspended Solids										00530
Total Sus. Non Vol. Solids										
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C.C Slynn + Lylveste.

Summary By Stylm \$. Nell Date 7-14-75

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LAB FILES

Source Norsack & SKALIT BASINS

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Collected By D. GLANTE + D. ANDERSON

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NO2-N (Filtered)												
NH3-N (Unfiltered)												
T. Kjeldahl-N (Unfiltered)												
O-PO4-P (Filtered)												
Total PhosP (Unfiltered)												
Total Solids												
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Summary By Style D. All Date 7-18-75

# State of Washington Department of Ecology

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WATER QUALITY LABORATORY

DATA SUMMARY

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