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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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M E M O R A N D U M
May 2, 1984

To: Tom Eaton
From: Art Johnson *af*
Subject: Chemicals in the Morningside Drain Discharge to
Hylebos Waterway

Shown in Table 1 are the available organic priority pollutant data on Morningside Drain (location shown on attached map). I bring these data to your attention because of the wide variety of compounds detected in two samples from this site. Especially noteworthy is the presence of chloronaphthalene, nitrobenzene, bromophenyl ether, and chlorophenol--chemicals we have not seen in other runoff samples of this type--and the relatively high concentrations of several halomethanes. These data raise the possibility that intermittent spills are taking place upstream. Jones Chemical is one potential source that bears investigation.

AJ:cp

Attachments

cc: Jim Krull
Dick Cunningham
Bill Yake
Dale Norton

Table 1. Organic priority pollutants in Morningside Drain.

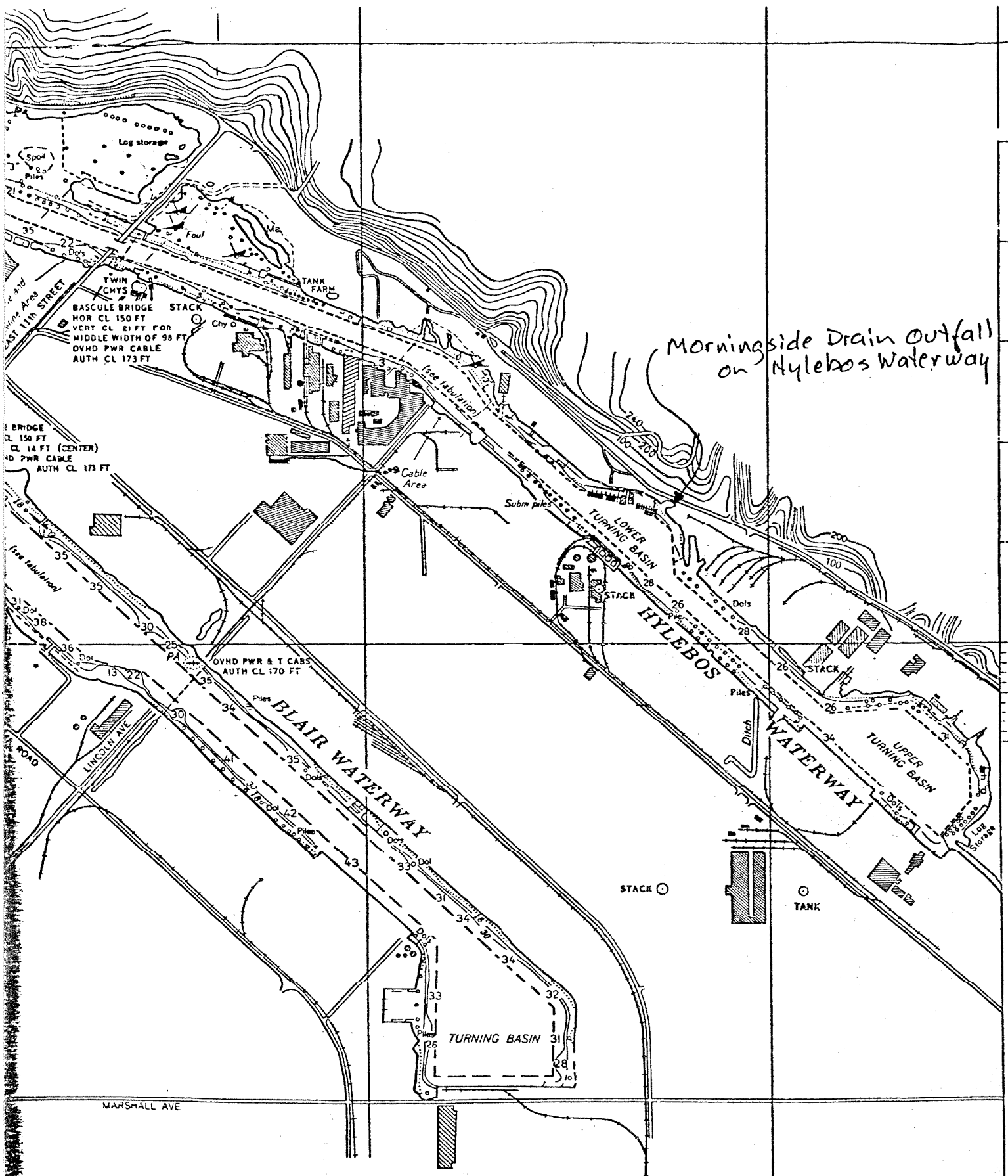
Discharge	Morningside Drain, Hylebos Waterway				
	9/23/80	8/17/81	3/29/82	9/06/83	11/7-8/83
Date Sampled	9/23/80	8/17/81	3/29/82	9/06/83	11/7-8/83
Time Sampled	0930	1130-1410	1125-1540	1015-1400	2245-0215
Investigator	EPA	WDOE	WDOE	WDOE	WDOE
Sample Number	38300	33750	J1341	J1555	J3413
Flow (MGD)		(.13)	.78	.49	.71
<u>Volatiles</u>					
chloroform	--	--	a	--	63
trichlorofluoromethane	--	--	a	--	--
1,2-trans-dichloroethylene	--	--	a	--	--
1,1,1-trichloroethane	--	--	a	--	--
trichloroethylene	--	--	a	--	--
benzene	--	--	a	--	--
bromoform	--	--	a	--	57
bromodichloromethane	--	--	a	--	99
chlorodibromomethane	--	--	a	--	160
<u>Base/Neutrals</u>					
naphthalene	--	11	a	--	--
acenaphthene	--	2	a	--	--
acenaphthylene	--	7	a	--	--
anthracene/phenanthrene	--	5	a	--	--
fluorene	--	6	a	--	--
pyrene	--	6	a	--	--
fluoranthene	--	--	a	--	--
1,2-dichlorobenzene	--	20	a	--	--
1,3-dichlorobenzene	--	19	a	--	T
1,4-dichlorobenzene	--	20	a	--	--
hexachlorobenzene	--	5	a	--	--
2-chloronaphthalene	--	5	a	--	--
bis(2-ethylhexyl) phthalate	--	--	a	--	30
dimethyl phthalate	--	2	a	--	--
diethyl phthalate	--	9	a	--	--
nitrobenzene	--	8	a	--	--
4-bromophenyl ether	--	10	a	--	--
di-n-butyl phthalate	--	--	a	--	38
<u>Acid Extractables</u>					
phenol	--	--	a	--	--
2-chlorophenol	--	11	a	--	--
pentachlorophenol	--	--	a	--	--
<u>Pesticides</u>					
	--	--	--	--	--
<u>Miscellaneous</u>					
cyanide	--	--	<5	--	--

() = Estimated.

-- = Not detected (blanks indicate compound not analyzed for).

a = Not detected, but detection limit high relative to other analyses.

T = Trace; value is greater than the limit of detection but less than the limit of quantification (1 ug/L in most cases).



Morningside Drain Outfall
on Hylebos Waterway

BLAIR WATERWAY						
CORPS OF ENGINEERS-SURVEYS TO MAY 1880 AND REPORT OF JULY 1880						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH DEPTH (NAUT. MILES) (FEET)