LDWSF
1.11
8/14/73

ENVIRONMENTAL PROTECTION AGENCY

REPLY TO ATTN OF: Region X Laboratory

DATE: 14 August 1973

SUBJECT: Analysis of Duwamish River Sediment for PCB

TO: A. R. Gahler
Supervisory Chemist
EPA Region X Laboratory

The analysis of Duwamish River Sediment for PCB has been completed and the data are shown in the attached table. The results represent the average of several values obtained with different columns in different gas chromatographs.

R. H. Rieck

R. H. Rieck

cc: F. L. Nelson
J. Sainsbury
J. Blazevich

arg/jp

EPA Form 1320-6 (11-71)

USEPA SF
1390222

ANALYSIS OF DUWAMISH RIVER SEDIMENT SAMPLES FOR PCB

(6-5-73)

Sample Identification	% Solids	Concentration
core #1 - 1 meter	51.5	1.0
core #1 - surface	58.1	.2
core #2 - surface	57.6	.3
core #2 - 1 meter - 6"	48.1	1.9
core #3 - surface	54.3	.4
core #3 - 1 meter	54.1	3.0
core #4 - surface	55.1	1.4
core #4 - 1 meter - 6"	41.2	.5
core #5 - surface	58.0	1.6
core #5 - 1 meter - 6"	63.4	.4
core #6 - surface	57.0	1.1
core #6 - 1 meter	56.1	.6
core #7 - surface	49.9	1.8
core #7 - 1 meter	53.5	.6
core #8 - surface	51.0	1.8
core #8 - 1 meter	51.0	.3
core #9 - surface	48.9	1.6
core #10 - surface	50.4	1.8
core #10 - 1 meter	62.6	.5
core #11 - surface	56.4	3.6
core #11 - 1 meter	54.2	.1
core #12 - surface	66.0	.4
core #16 - surface	38.2	1.6
core #16 - 1 meter	60.8	.3
core #13 - surface	16.7*	1.2
core #13 - surface	70.0	.4
core #14 - surface	68.7	.1
core #15 - surface	14.1*	4.2

Concentrations expressed in ppm (micrograms per gram) on a dry weight basis.

* Samples contained large concentration of wood chips. Samples diluted about four fold with water prior to homogenation.

SEATTLE HARBOR - DUWAMISH WATERWAY

EPA BOTTOM SAMPLE MATERIAL ANALYSIS*
Core Samples Collected 5 June 1973

Sample Number	Location Mile/Station	EPA Lab Number	Core Depth	V S	C O D	KJELDAHL NITROGEN %	O & G %	MERCURY %	LEAD %	CADMIUM %	ZINC %	P C B %
EPA CRITERIA				6.0	5.0	0.10	0.15	0.001	0.005	-	0.005	-
	262 ← everything											
I, S, G.S. & Sul. 1	Mi 4.7	601	1 meter	10.3	12.2	0.16	0.16	0.00008	0.006	0.0003	0.018	.00010
	St 247+00	602	Surface	5.8	7.2	0.12	0.10	0.00003	0.004	0.0002	0.012	.00002
2	Mi 4.4	603	Surface	6.3	6.3	0.10	0.09	0.00003	0.003	0.0002	0.010	.00003
	St 230+00	604	1 meter	11.5	13.6	0.24	0.35	0.00005	0.007	0.0003	0.019	.00019
X 3	Mi 4.2	605	Surface	7,9	8.1	0.12	0.09	0.00004	0.004	0.0001	0.010	.00004
	St 220+00	606	1 meter	9.6	9.7	0.18	0.21	0.00004	0.006	0.0002	0.016	.00030
X 4	Mi 3.7	607	Surface	6.5	7.0	0.11	0.12	0.00003	0.005	0.0002	0.014	.00014
	St 194+00	608	1 meter	6.0	7.1	0.12	0.12	0.00003	0.004	0.0002	0.017	.00005
X 5	Mi 3.2	609	Surface	6.8	6.6	0.03	0.10	0.00002	0.004	0.0002	0.018	.00016
	St 169+00	610	1 meter	5.2	4.4	0.06	0.09	0.00003	0.002	0.0001	0.009	.00004
6	Mi 3.2	611	Surface	7.1	6.9	0.10	0.11	0.00003	0.005	0.0002	0.016	.00011
	St 17[illegible]+00	612	1 meter	7.9	8.2	0.13	0.16	0.00003	0.003	0.0002	0.013	.00006
	(Left of Channel)											
7	Mi 2.45	613	Surface	8.4	8.9	0.12	0.41	0.00004	0.007	0.0002	0.023	.00018
	St 120+00	614	1 meter	9.0	8.5	0.15	0.29	0.00002	0.005	0.0002	0.018	.00006
8	Mi 1.7	615	Surface	8.3	8.2	0.12	0.28	0.00003	0.017	0.0005	0.670	.00018
	St 90+00	616	1 meter	8.0	8.4	0.13	0.34	0.00004	0.008	0.0003	0.025	.00003
	(Right of Channel)											
9	Mi 1.7	617	Surface	8.7	9.3	0.19	0.45	0.00004	0.030	0.0006	0.081	.00016
	St 90+00	618	Surface	9.9	16.1	0.35	0.61	0.00004	0.020	0.0010	0.040	

SEATTLE HARBOR - DUWAMISH WATERWAY

EPA BOTTOM SAMPLE MATERIAL ANALYSIS*
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EPA CRITERIA				6.0	5.0	0.10	0.15	0.001	0.005	-	0.005	-
10	Mi 1.1 St 60+00 (Right of Channel)	619	1 meter	4.9	6.8	0.09	0.05	0.00001	0.002	0.0002	0.007	0 00005
		620	Surface	7.1	9.5	0.14	0.32	0.00004	0.020	0.0005	0.025	0 00018
11	Mi 1.1 St 59+00 (Left of Channel)	621	1 meter	7.3	9.4	0.16	1.94	0.00004	0.015	0.0004	0.022	0 00001
		622	Surface	3.6	2.8	0.06	0.09	0.00004	0.007	0.0001	0.013	0 00036
12	Mi 0.6 St 32+50	623	Surface	11.7	19.8	0.31	1.63	0.00004	0.035	0.0008	0.060	0.00004
		624	1 meter	5.7	6.7	0.09	0.13	0.00005	0.006	0.0002	0.014	-
13	Mi 0.4 St 18+50	625	Surface	17.1	23.9	0.16	0.74	0.00007	0.025	0.0003	0.046	0 00012**
		626	Surface	3.7	7.2	0.03	0.01	0.00007	0.016	0.0001	0.016	0 00004
14	Mi 0.25 St 13+00	627	Surface	4.8	0.2	0.01	0.03	0.00001	0.011	0.0001	0.021	0 00001
15	Mi 0.07 St 3+50	628	Surface	13.7	20.6	0.15	0.92	0.00015	0.028	0.0003	0.066	0.00042**

* Percent Dry Weight Basis
** Samples contained large concentration of wood chips. Samples diluted about fourfold with water prior to homogenization.