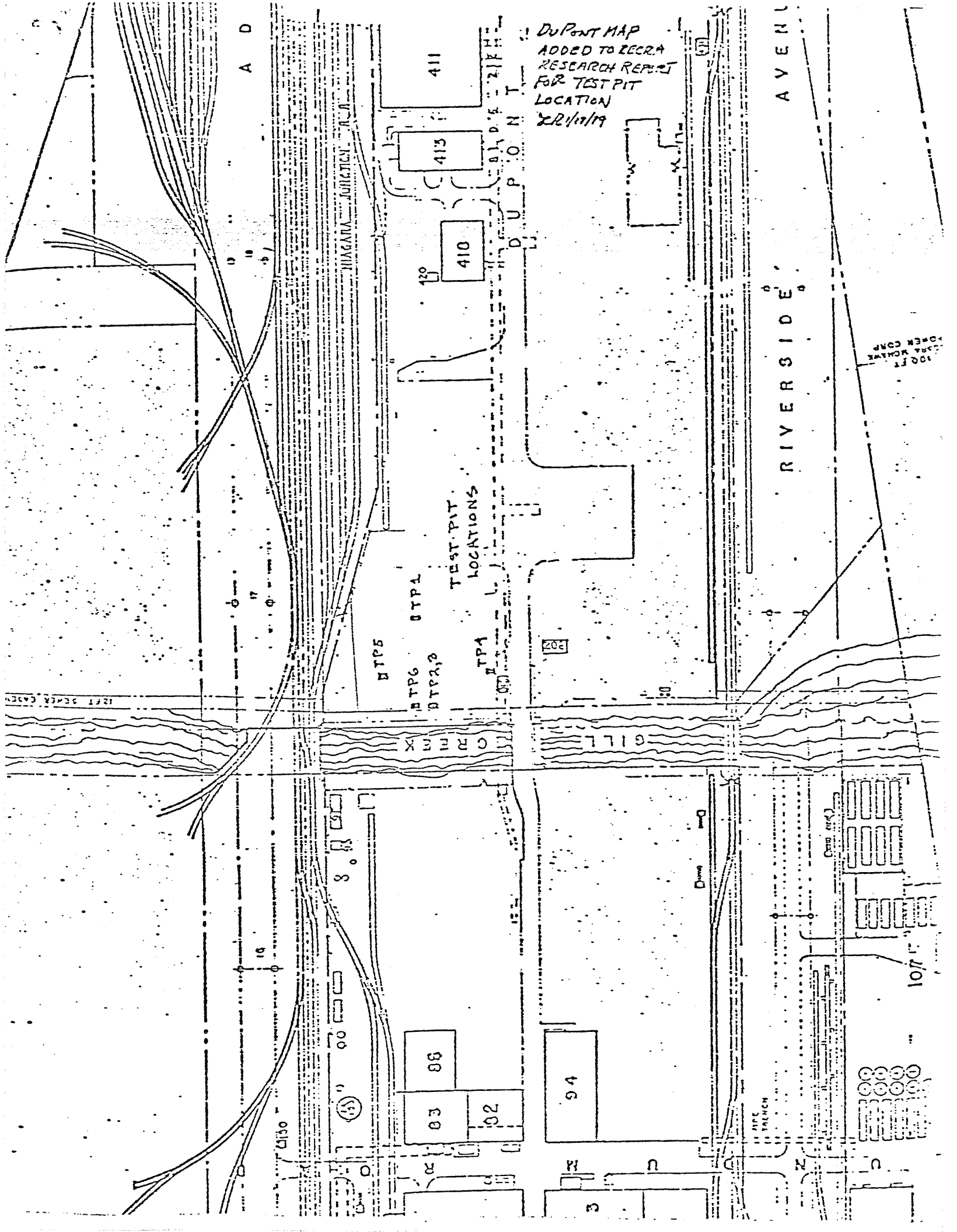


FORMER BUILDING 310 AREA

- SURFACE AND TEST-PIT SOIL ANALYSES



ANALYTICAL RESULTS

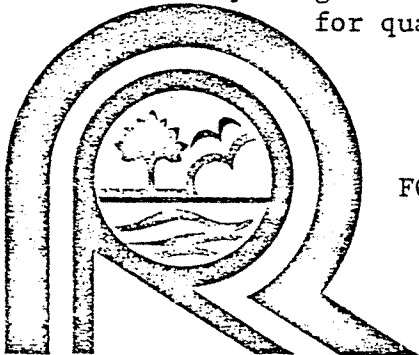
E. I. DuPONT deNEMOURS AND COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES
 SOIL SAMPLES

Sample Date: 11/22/78
 Report Date: 1/16/79

Test Pit # 1

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION (ug/g DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	96.1	<1.0	<1.0	<1.0	<1.0	5.40	<1.0	<1.0	<1.0
6	88.5	<10	<10	<10	<10	471	<10	<10	<10
12	84.0	<1.0	<1.0	<1.0	<1.0	45.1	<1.0	<1.0	<1.0
18	82.8	<0.10	<0.10	<0.10	<0.10	1.00	<0.10	<0.10	<0.10
24	82.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
30	87.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
36	74.3	<1.0	<1.0	<1.0	<1.0	32.6	<1.0	<1.0	<1.0
42	87.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
48	70.0	<0.20	<0.20	<0.20	<0.20	1.87	<0.20	<0.20	<0.20
54	75.6	<0.20	<0.20	<0.20	<0.20	3.32	<0.20	<0.20	<0.20
60	72.5	<0.50	<0.50	<0.50	<0.50	15.3	<0.50	<0.50	<0.50
66	88.7	<0.20	<0.20	<0.20	<0.20	4.6	<0.20	<0.20	<0.20
72	87.1	<0.10	<0.10	<0.10	<0.10	0.35	<0.10	<0.10	<0.10
78	63.7	<0.50	<0.50	<0.50	<0.50	1.8	<0.50	<0.50	<0.50
84	68.6	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02

COMMENTS: Samples from all depths were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. Values reported as "less than" indicate working detection limits for the particular Aroclor for each sample. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weights and/or dilutions required to produce chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC. Ralph K. Lyeth

DATE 1/16/79

ANALYTICAL RESULTS

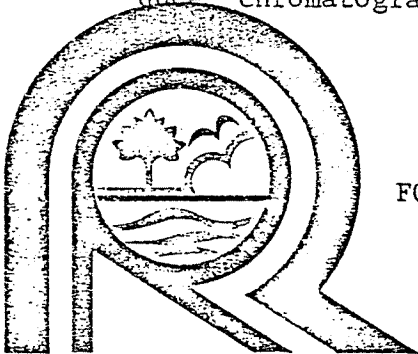
E. I. DuPONT deNEMOURS AND COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES
SOIL SAMPLES

Sample Date: 11/22/78
Report Date: 1/16/79

Test Pit # 2

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION (ug/g DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	87.5	<300	<300	<300	<300	49,600	<300	<300	<300
6	83.5	<200	<200	<200	<200	45,600	<200	<200	<200
12	91.2	<200	<200	<200	<200	36,400	<200	<200	<200
18	94.4	<100	<100	<100	<100	12,000	<100	<100	<100
24	95.7	<50	<50	<50	<50	8,920	<50	<50	<50
30	94.0	<20	<20	<20	<20	993	<20	<20	<20
36	93.4	<20	<20	<20	<20	435	<20	<20	<20
42	97.1	<10	<10	<10	<10	622	<10	<10	<10
48	91.2	<30	<30	<30	<30	3,520	<30	<30	<30
54	86.8	<50	<50	<50	<50	5,030	<50	<50	<50
60	93.4	<75	<75	<75	<75	10,500	<75	<75	<75
66	86.2	<20	<20	<20	<20	5,710	<20	<20	<20
72	90.2	<10	<10	<10	<10	1,250	<10	<10	<10
78	86.2	<15	<15	<15	<15	1,760	<15	<15	<15
84	90.1	<20	<20	<20	<20	2,690	<20	<20	<20

COMMENTS: Samples from all depths were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. Values reported as "less than" indicate working detection limits for the particular Aroclor for each sample. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weights and/or dilutions required to produce chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC.

Robert K. Lyell

DATE 1/16/79

ANALYTICAL RESULTS

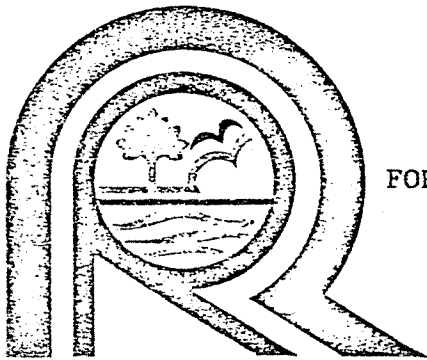
E. I. DuPONT deNEMOURS AND COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES
SOIL SAMPLES

Sample Date: 11/22/78
Report Date: 1/16/79

Test Pit # 3

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION (ug/g DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	89.3	<50	<50	<50	<50	7180	<50	<50	<50
6	89.7	<40	<40	<40	<40	2360	<40	<40	<40
12	96.4	<1.0	<1.0	<1.0	<1.0	36.5	<1.0	<1.0	<1.0
18	96.5	<10	<10	<10	<10	162	<10	<10	<10
24	96.5	<1.0	<1.0	<1.0	<1.0	35.5	<1.0	<1.0	<1.0
30	94.6	<0.50	<0.50	<0.50	<0.50	29.9	<0.50	<0.50	<0.50
36	94.4	<0.10	<0.10	<0.10	<0.10	1.90	<0.10	<0.10	<0.10
42	96.4	<0.20	<0.20	<0.20	<0.20	32.0	<0.20	<0.20	<0.20
48	82.5	<3.0	<3.0	<3.0	<3.0	133	<3.0	<3.0	<3.0
54	93.3	<4.0	<4.0	<4.0	<4.0	284	<4.0	<4.0	<4.0
60	95.4	<5.0	<5.0	<5.0	<5.0	367	<5.0	<5.0	<5.0
66	-	-	-	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-	-	-

COMMENTS: Samples from all depths were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. Values reported as "less than" indicate working detection limits for the particular Aroclor. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weight and/or dilutions required to produce chromatograms suitable for quantification. No samples were collected at the 66-84 inch depths.



FOR RECRA RESEARCH, INC.

Ralph Kuyeth

DATE 1/16/79

ANALYTICAL RESULTS

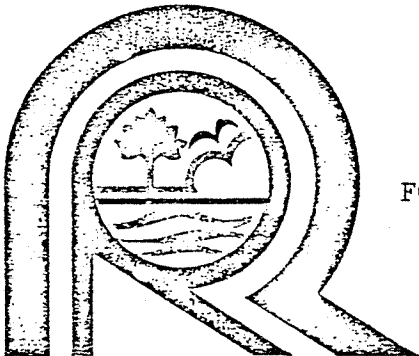
E. I. DuPONT deNEMOURS AND COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES
SOIL SAMPLES

Sample Date: 11/22/78
Report Date: 1/16/79

Test Pit # 4

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION (µg/g DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	86.6	<0.75	<0.75	<0.75	<0.75	20.4	<0.75	<0.75	<0.75
6	83.6	<1.0	<1.0	<1.0	<1.0	30.0	<1.0	<1.0	<1.0
12	83.7	<0.10	<0.10	<0.10	<0.10	1.10	<0.10	<0.10	<0.10
18	88.0	<0.20	<0.20	<0.20	<0.20	4.66	<0.20	<0.20	<0.20
24	80.3	<0.50	<0.50	<0.50	<0.50	24.2	<0.50	<0.50	<0.50
30	78.3	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
36	81.3	<0.20	<0.20	<0.20	<0.20	3.03	<0.20	<0.20	<0.20
42	92.2	<0.50	<0.50	<0.50	<0.50	15.4	<0.50	<0.50	<0.50
48	80.5	<0.25	<0.25	<0.25	<0.25	2.50	<0.25	<0.25	<0.25
54	88.7	<0.10	<0.10	<0.10	<0.10	0.56	<0.10	<0.10	<0.10
60	85.9	<0.10	<0.10	<0.10	<0.10	0.78	<0.10	<0.10	<0.10
66	82.9	<0.05	<0.05	<0.05	<0.05	0.68	<0.05	<0.05	<0.05
72	66.6	<0.20	<0.20	<0.20	<0.20	2.97	<0.20	<0.20	<0.20
78	73.8	<0.05	<0.05	<0.05	<0.05	0.27	<0.05	<0.05	<0.05
84	-	-	-	-	-	-	-	-	-

COMMENTS: Samples were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. No sample was collected from the 84" depth. Values reported as "less than" indicate working detection limits for the particular Aroclor for each sample. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weight, and/or dilutions required to produce chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC.

Robert K. Lytle

DATE 1/16/79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150; (716) 692-7620

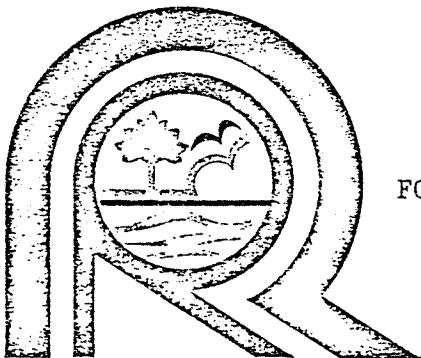
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

E. I. DuPONT deNEMOURS AND COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES
SOIL SAMPLESSample Date: 11/22/78Report Date: 1/16/79Test Pit # 5

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION ($\mu\text{g/g}$ DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	88.9	<2.0	<2.0	<2.0	<2.0	36.8	<2.0	<2.0	<2.0
6	92.6	<1.0	<1.0	<1.0	<1.0	219	<1.0	<1.0	<1.0
12	93.4	<0.50	<0.50	<0.50	<0.50	4.49	<0.50	<0.50	<0.50
18	91.2	<0.50	<0.50	<0.50	<0.50	4.39	<0.50	<0.50	<0.50
24	65.2	<0.10	<0.10	<0.10	<0.10	0.86	<0.10	<0.10	<0.10
30	88.6	<0.05	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05
36	87.4	<0.10	<0.10	<0.10	<0.10	1.59	<0.10	<0.10	<0.10
42	70.9	<0.50	<0.50	<0.50	<0.50	3.72	<0.50	<0.50	<0.50
48	74.8	<0.20	<0.20	<0.20	<0.20	1.76	<0.20	<0.20	<0.20
54	61.0	<0.10	<0.10	<0.10	<0.10	0.63	<0.10	<0.10	<0.10
60	81.0	<0.75	<0.75	<0.75	<0.75	2.67	<0.75	<0.75	<0.75
66	63.5	<0.10	<0.10	<0.10	<0.10	0.26	<0.10	<0.10	<0.10
72	59.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
78	47.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
84	50.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

COMMENTS: Samples from all depths were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. Values reported as "less than" indicate working detection limits for the particular Aroclor for each sample. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weight and/or dilutions required to produce chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC.

DATE 1/16/79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

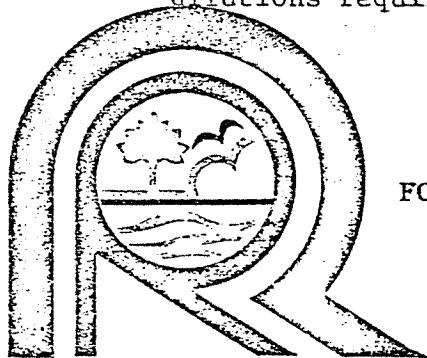
E. I. DuPONT deNEMOURS AND COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES
 SOIL SAMPLES

Sample Date: 11/22/78
 Report Date: 1/16/79

Test Pit # 6

DEPTH (INCH)	% DRY WEIGHT	PCB CONCENTRATION (ug/g DRY WT.) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
0 (Surface)	91.7	<10.0	<10.0	<10.0	<10.0	944	<10.0	<10.0	<10.0
6	85.7	<40.0	<40.0	<40.0	<40.0	4770	<40.0	<40.0	<40.0
12	97.1	<0.10	<0.10	<0.10	<0.10	1.96	<0.10	<0.10	<0.10
18	97.2	<0.10	<0.10	<0.10	<0.10	1.48	<0.10	<0.10	<0.10
24	85.7	<0.10	<0.10	<0.10	<0.10	1.98	<0.10	<0.10	<0.10
30	86.6	<10.0	<10.0	<10.0	<10.0	2110	<10.0	<10.0	<10.0
36	85.5	<1.0	<1.0	<1.0	<1.0	41.0	<1.0	<1.0	<1.0
42	76.9	<1.0	<1.0	<1.0	<1.0	29.9	<1.0	<1.0	<1.0
48	78.7	<20.0	<20.0	<20.0	<20.0	4210	<20.0	<20.0	<20.0
54	73.8	<1.0	<1.0	<1.0	<1.0	85.7	<1.0	<1.0	<1.0
60	80.1	<1.0	<1.0	<1.0	<1.0	58.4	<1.0	<1.0	<1.0
66	80.6	<5.0	<5.0	<5.0	<5.0	106	<5.0	<5.0	<5.0
72	74.1	<5.0	<5.0	<5.0	<5.0	450	<5.0	<5.0	<5.0
78	71.7	<1.0	<1.0	<1.0	<1.0	71.8	<1.0	<1.0	<1.0
84	-	-	-	-	-	-	-	-	-

COMMENTS: Samples were collected by Recra personnel and received on 11/22/78. Percent dry weights were determined according to Method 208G as presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater. All PCB analyses were performed according to U.S. Environmental Protection Agency methodologies. No sample was collected at 84 inch depth. Values reported as "less than" indicate working detection limits for the particular Aroclor for each sample. Differences in detectabilities are a consequence of changing the volume of extract injected, weight of sample extracted, % dry weight and/or dilutions required to produce Chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC.

Rahit K. Goyal

DATE 1/16/79

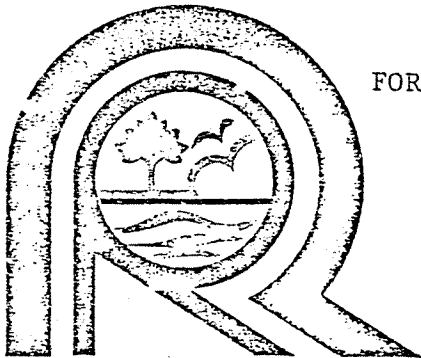
ANALYTICAL RESULTS

E. I. DuPONT deNEMOURS AND COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES
 WATER SAMPLES

Sample Date: 11/22/78
 Report Date: 1/16/79

TEST PIT #	UNITS OF MEASURE	PCB AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
1	ug/l	<1.0	<1.0	<1.0	<1.0	32.9	<1.0	<1.0	<1.0
2	mg/l	<0.1	<0.1	<0.1	<0.1	4.5	<0.1	<0.1	<0.1
3	-	-	-	-	-	-	-	-	-
4	ug/l	<1.0	<1.0	<1.0	<1.0	20.8	<1.0	<1.0	<1.0
5	ug/l	<1.0	<1.0	<1.0	<1.0	8.7	<1.0	<1.0	<1.0
6	-	-	-	-	-	-	-	-	-

COMMENTS: Samples were collected by Recra personnel and received on 11/22/78. Note the change in "Units of Measure" for Test Pit #2. Water samples for Test Pits 3 and 6 were not collected per instructions from duPont personnel. All analyses were performed according to U.S. Environmental Protection Agency methodologies. Values reported as "less than" indicate working detection limits for the Aroclor reported for that particular sample. Differences in detectabilities are a consequence of volume of extract injected and dilutions required to produce chromatograms suitable for quantification.



FOR RECRA RESEARCH, INC.

Robert K. Lytt

DATE 1/16/79

E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES

Report Date: 5/17/79

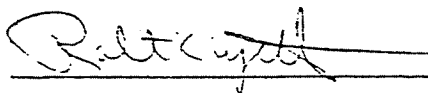
Sample Date: 4/5/79

SURFACE SOILS & TEST PIT SAMPLES

SAMPLE IDENTIFICATION	% DRY WEIGHT	POLYCHLORINATED BIPHENYL RESULT ($\mu\text{g/g}$ DRY) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
TPA - Surface	90.3	<5.0	<5.0	<5.0	<5.0	395	<5.0	<5.0	<5.0
TPA - 6"	89.5	<1.0	<1.0	<1.0	<1.0	28.1	<1.0	<1.0	<1.0
TPA - 12"	93.1	<0.01	<0.01	<0.01	<0.01	0.33	<0.01	<0.01	<0.01
TPA - 18"	87.8	<0.5	<0.5	<0.5	<0.5	1.85	<0.5	<0.5	<0.5
TPA - 24"	88.9	<0.1	<0.1	<0.1	<0.1	5.05	<0.1	<0.1	<0.1
TPA - 30"	89.8	<0.1	<0.1	<0.1	<0.1	3.79	<0.1	<0.1	<0.1
TPA - 36"	89.6	<0.1	<0.1	<0.1	<0.1	6.65	<0.1	<0.1	<0.1
TPA - 42"	82.0	<0.1	<0.1	<0.1	<0.1	3.77	<0.1	<0.1	<0.1
TPA - 48"	72.0	<0.5	<0.5	<0.5	<0.5	20.8	<0.5	<0.5	<0.5
TPA - 54"	79.9	<0.1	<0.1	<0.1	<0.1	5.09	<0.1	<0.1	<0.1
TPA - 60"	84.9	<0.1	<0.1	<0.1	<0.1	2.29	<0.1	<0.1	<0.1
TPB - Surface	98.4	<5.0	<5.0	<5.0	<5.0	1530	<5.0	<5.0	<5.0
TPB - 6"	93.8	<20	<20	<20	<20	5440	<20	<20	<20
TPB - 12"	95.4	<1.0	<1.0	<1.0	<1.0	37.3	<1.0	<1.0	<1.0
TPB - 18"	92.6	<1.0	<1.0	<1.0	<1.0	25.2	<1.0	<1.0	<1.0
TPB - 24"	94.6	<0.01	<0.01	<0.01	<0.01	0.23	<0.01	<0.01	<0.01
TPB - 30"	94.1	<0.01	<0.01	<0.01	<0.01	0.33	<0.01	<0.01	<0.01
TPB - 36"	91.0	<0.01	<0.01	<0.01	<0.01	0.24	<0.01	<0.01	<0.01
TPB - 42"	94.5	<0.1	<0.1	<0.1	<0.1	4.98	<0.1	<0.1	<0.1
TPB - 48"	92.4	<2.0	<2.0	<2.0	<2.0	165	<2.0	<2.0	<2.0
TPB - 54"	91.7	<1.0	<1.0	<1.0	<1.0	50.2	<1.0	<1.0	<1.0
TPB - 60"	91.2	<0.1	<0.1	<0.1	<0.1	16.9	<0.1	<0.1	<0.1
TPC - Surface	94.7	<2.0	<2.0	<2.0	<2.0	282	<2.0	<2.0	<2.0
TPC - 6"	95.1	<5.0	<5.0	<5.0	<5.0	697	<5.0	<5.0	<5.0
TPC - 12"	95.0	<5.0	<5.0	<5.0	<5.0	416	<5.0	<5.0	<5.0
TPC - 18"	87.2	<5.0	<5.0	<5.0	<5.0	711	<5.0	<5.0	<5.0
TPC - 24"	88.8	<5.0	<5.0	<5.0	<5.0	679	<5.0	<5.0	<5.0
TPC - 30"	88.4	<0.5	<0.5	<0.5	<0.5	63.8	<0.5	<0.5	<0.5
TPC - 36"	87.1	<0.1	<0.1	<0.1	<0.1	126	<0.1	<0.1	<0.1
TPC - 42"	86.7	<3.0	<3.0	<3.0	<3.0	371	<3.0	<3.0	<3.0
TPC - 48"	92.5	<20	<20	<20	<20	6850	<20	<20	<20
TPC - 54"	86.9	<10	<10	<10	<10	2040	<10	<10	<10
TPC - 60"	88.0	<5.0	<5.0	<5.0	<5.0	602	<5.0	<5.0	<5.0

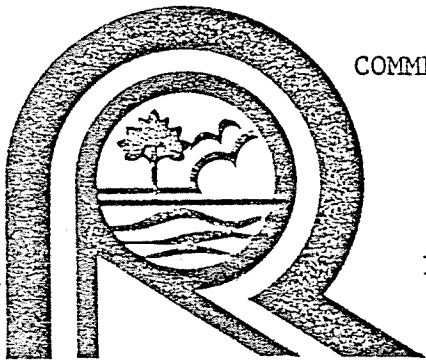
COMMENTS: Comments pertain to data on any one or all of the pages of this data report. All samples were collected by Recra Research, Inc. personnel and were received at our laboratories on the same date as collected.

FOR RECRA RESEARCH, INC.



DATE

5/20/79



RECRA RESEARCH, INC.

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES

Report Date: 5/17/79

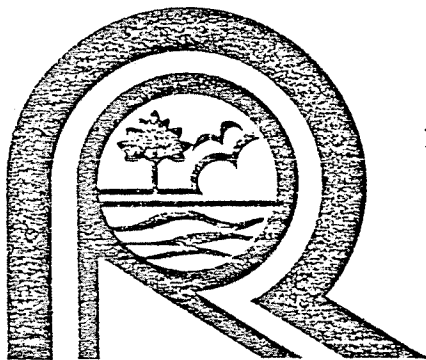
Sample Date: 4/5/79

SURFACE SOILS & TEST PIT SAMPLES

SAMPLE IDENTIFICATION	% DRY WEIGHT	POLYCHLORINATED BIPHENYL RESULT (ug/g DRY) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
TPD - Surface	93.8	<0.1	<0.1	<0.1	<0.1	8.68	<0.1	<0.1	<0.1
TPD - 6"	89.8	<5.0	<5.0	<5.0	<5.0	392	<5.0	<5.0	<5.0
TPD - 12"	94.4	<1.0	<1.0	<1.0	<1.0	45.9	<1.0	<1.0	<1.0
TPD - 18"	95.2	<0.1	<0.1	<0.1	<0.1	7.44	<0.1	<0.1	<0.1
TPD - 24"	87.9	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
TPD - 30"	90.4	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
TPD - 36"	93.5	<0.01	<0.01	<0.01	<0.01	0.27	<0.01	<0.01	<0.01
TPD - 42"	93.1	<0.2	<0.2	<0.2	<0.2	6.97	<0.2	<0.2	<0.2
TPD - 48"	89.3	<0.1	<0.1	<0.1	<0.1	2.64	<0.1	<0.1	<0.1
TPD - 54"	82.1	<0.5	<0.5	<0.5	<0.5	9.91	<0.5	<0.5	<0.5
TPD - 60"	75.1	<0.1	<0.1	<0.1	<0.1	3.14	<0.1	<0.1	<0.1
TPE - Surface	93.4	<1.0	<1.0	<1.0	<1.0	59.2	<1.0	<1.0	<1.0
TPE - 6"	86.7	<1.0	<1.0	<1.0	<1.0	56.1	<1.0	<1.0	<1.0
TPE - 12"	91.2	<1.0	<1.0	<1.0	<1.0	67.3	<1.0	<1.0	<1.0
TPE - 18"	85.3	<0.1	<0.1	<0.1	<0.1	5.16	<0.1	<0.1	<0.1
TPE - 24"	82.8	<1.0	<1.0	<1.0	<1.0	26.9	<1.0	<1.0	<1.0
TPE - 30"	79.8	<0.1	<0.1	<0.1	<0.1	2.22	<0.1	<0.1	<0.1
TPE - 36"	83.3	<0.1	<0.1	<0.1	<0.1	2.54	<0.1	<0.1	<0.1
TPE - 42"	61.5	<0.1	<0.1	<0.1	<0.1	2.60	<0.1	<0.1	<0.1
TPE - 48"	81.1	<0.1	<0.1	<0.1	<0.1	3.16	<0.1	<0.1	<0.1
TPE - 54"	76.7	<0.5	<0.5	<0.5	<0.5	12.0	<0.5	<0.5	<0.5
TPE - 60"	86.5	<0.01	<0.01	<0.01	<0.01	0.63	<0.01	<0.01	<0.01
SPA-1	92.9	<1.0	<1.0	<1.0	<1.0	73.8	<1.0	<1.0	<1.0
SPB-2	92.6	<1.0	<1.0	<1.0	<1.0	44.0	<1.0	<1.0	<1.0
SPE-3	92.5	<0.5	<0.5	<0.5	<0.5	19.1	<0.5	<0.5	<0.5
SPD-4	92.4	<1.0	<1.0	<1.0	<1.0	28.5	<1.0	<1.0	<1.0
SPE-5	95.1	<1.0	<1.0	<1.0	<1.0	57.1	<1.0	<1.0	<1.0
SPF-6	90.1	<1.0	<1.0	<1.0	<1.0	53.9	<1.0	<1.0	<1.0
SPG-7	94.6	<1.0	<1.0	<1.0	<1.0	65.0	<1.0	<1.0	<1.0
SPH-8	94.3	<1.0	<1.0	<1.0	<1.0	52.3	<1.0	<1.0	<1.0

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5/22/79

COMMENTS: All analyses were completed according to U. S. Environmental Protection Agency methodologies.



FOR RECRA RESEARCH, INC.

DATE

5/20/79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES

Report Date: 5/17/79

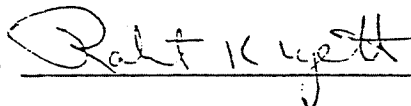
Sample Date: 4/19/79

TEST PIT SAMPLES

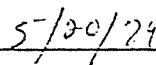
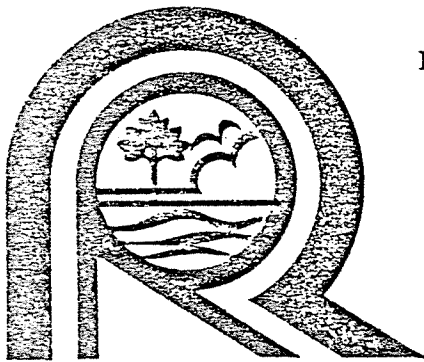
SAMPLE IDENTIFICATION	% DRY WEIGHT	POLYCHLORINATED BIPHENYL RESULT ($\mu\text{g/g}$ DRY) AS AROCLOR							
		1016	1221	1232	1242	1248	1254	1260	1268
TPB - 66"	88.3	<5.0	<5.0	<5.0	<5.0	118	<5.0	<5.0	<5.0
TPB - 72"	86.6	<1.0	<1.0	<1.0	<1.0	44.0	<1.0	<1.0	<1.0
TPB - 78"	80.0	<0.1	<0.1	<0.1	<0.1	5.72	<0.1	<0.1	<0.1
TPB - 84"	70.6	<0.1	<0.1	<0.1	<0.1	4.45	<0.1	<0.1	<0.1
TPC - 66"	79.6	<5.0	<5.0	<5.0	<5.0	131	<5.0	<5.0	<5.0
TPC - 72"	64.0	<20	<20	<20	<20	3230	<20	<20	<20
TPC - 78"	77.3	<20	<20	<20	<20	3600	<20	<20	<20
TPC - 84"	75.9	<20	<20	<20	<20	2130	<20	<20	<20
TPD - 66"	96.0	<1.0	<1.0	<1.0	<1.0	26.9	<1.0	<1.0	<1.0
TPD - 72"	66.4	<0.5	<0.5	<0.5	<0.5	12.6	<0.5	<0.5	<0.5
TPD - 78"	65.1	<0.1	<0.1	<0.1	<0.1	2.51	<0.1	<0.1	<0.1
TPD - 84"	59.7	<0.01	<0.01	<0.01	<0.01	0.51	<0.01	<0.01	<0.01
TPE - 66"	77.7	<0.5	<0.5	<0.5	<0.5	11.2	<0.5	<0.5	<0.5
TPE - 72"	80.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPE - 78"	63.6	<0.05	<0.05	<0.05	<0.05	0.79	<0.05	<0.05	<0.05
TPE - 84"	62.3	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06

COMMENTS: Values reported as "less than" indicate working detection limits for the particular Aroclor/sample. Differences in detectabilities are a function of changes in the extraction and/or analyses variables required to produce chromatograms suitable for quantification.

FOR RECRA RESEARCH, INC.



DATE

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES

Report Date: 5/17/79

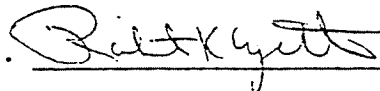
Sample Date: 4/5/79

TEST PIT WATER SAMPLES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION	
		TPD	TPE
	µg/l as Aroclor 1016	<0.1	<0.1
	µg/l as Aroclor 1221	<0.1	<0.1
Polychlorinated Biphenyls	µg/l as Aroclor 1232	<0.1	<0.1
	µg/l as Aroclor 1242	<0.1	<0.1
	µg/l as Aroclor 1248	36.1	28.2
	µg/l as Aroclor 1254	<0.1	<0.1
	µg/l as Aroclor 1260	<0.1	<0.1
	µg/l as Aroclor 1262	<0.1	<0.1
	µg/l as Aroclor 1268	<0.1	<0.1

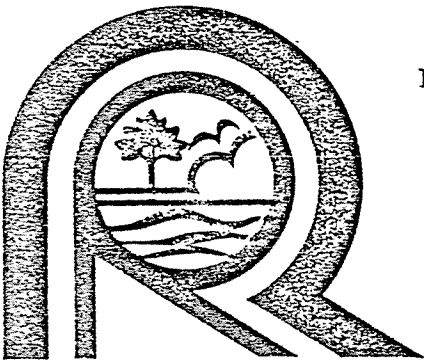
COMMENTS: The Test Pit Water Samples are ground water samples from the D and E test pits respectively and were collected during the excavation of these pits.

FOR RECRA RESEARCH, INC.



DATE

5/20/79



GILL CREEK WATER SAMPLE ANALYSES

3/1/79 - 6/18/79

ANALYTICAL RESULTS

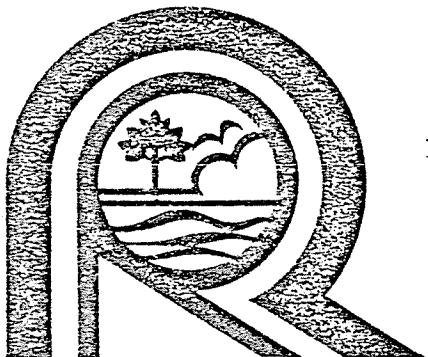
E. I. duPONT deNEMOURS AND COMPANY, INC.
Total Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 4/2/79

Sample Date: 3/1/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION					
		PARKWAY	WEST	PARKWAY	CENTER	PARKWAY	EAST
		SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
Total Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1221	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1232	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1242	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1248	0.026	0.041	<0.010	0.028	0.098	0.099
	µg/l as Aroclor 1254	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1260	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1262	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015
	µg/l as Aroclor 1268	<0.010	<0.010	<0.010	<0.010	<0.015	<0.015

COMMENTS: Samples were collected by Recra Research, Inc. personnel on 3/1/79. All analyses were performed according to U.S. Environmental Protection Agency methodologies.



FOR RECRA RESEARCH, INC.

DATE 4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

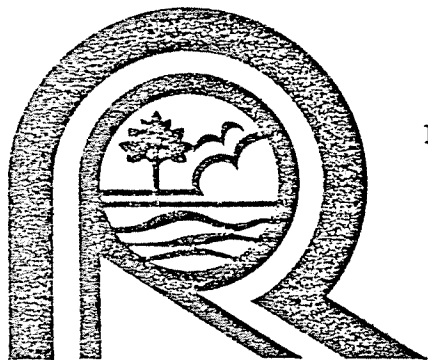
E. I. duPONT deNEMOURS AND COMPANY, INC.
Total Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 4/2/79

Sample Date: 3/1/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION				
		RAW WATER	006 OUTFALL	RIVER SAMPLE	ADAMS STREET WEST	ADAMS STREET EAST
Total Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1221	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1232	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1242	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1248	<0.003	0.019	<0.005	<0.010	0.124
	µg/l as Aroclor 1254	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1260	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1262	<0.003	<0.010	<0.005	<0.010	<0.015
	µg/l as Aroclor 1268	<0.003	<0.010	<0.005	<0.010	<0.015

COMMENTS: (Continued from page 1 of 5). Samples upon request were split into two fractions. The first fraction was analyzed without filtration and the results are reported as Total PCB's.



FOR RECRA RESEARCH, INC.

DATE

4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

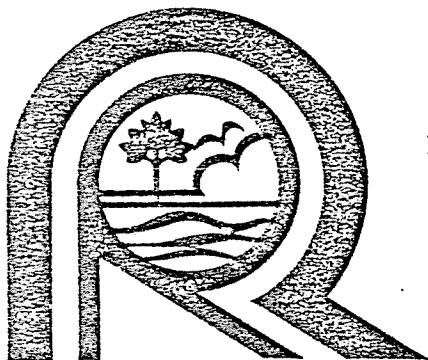
E. I. duPONT deNEMOURS AND COMPANY, INC.
Soluble Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 4/2/79

Sample Date: 3/1/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION					
		PARKWAY WEST		PARKWAY CENTER		PARKWAY EAST	
		SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1221	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1232	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1242	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1248	<0.005	<0.006	0.008	0.004	0.016	<0.003
	µg/l as Aroclor 1254	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1260	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1262	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003
	µg/l as Aroclor 1268	<0.005	<0.006	<0.005	<0.003	<0.005	<0.003

COMMENTS: (continued from page 2 of 5). The second fraction was filtered through 0.45µm filters prior to analyses and the results are reported as Soluble PCB's. Values reported as "less than" indicate the working detection limits for the particular Aroclor/sample.



FOR RECRA RESEARCH, INC.

DATE

4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

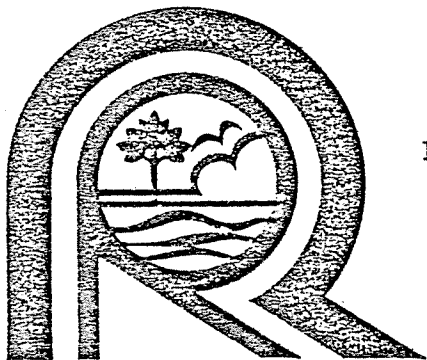
E. I. duPONT deNEMOURS AND COMPANY, INC.
Soluble Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 4/2/79

Sample Date: 3/1/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION				
		RAW WATER	006 OUTFALL	RIVER SAMPLE	ADAMS STREET WEST	ADAMS STREET EAST
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1221	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1232	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1242	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1248	<0.004	0.007	<0.004	<0.010	0.026
	µg/l as Aroclor 1254	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1260	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1262	<0.004	<0.003	<0.004	<0.010	<0.005
	µg/l as Aroclor 1268	<0.004	<0.003	<0.004	<0.010	<0.005

COMMENTS: (Continued from page 3 of 5). Differences in detectabilities are a consequence of difference in extraction or analyses variables such as volume extracted, final extract volume and/or injection volume.



FOR RECRA RESEARCH, INC.

DATE

4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

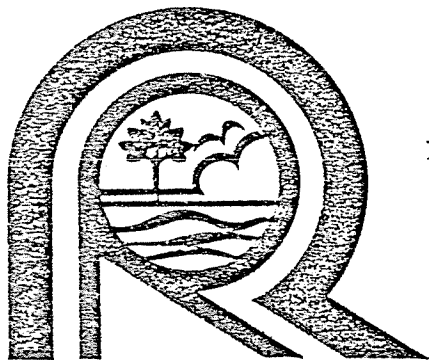
E. I. duPONT deNEMOURS AND COMPANY, INC.
Gill Creek Water Analyses

Report Date: 4/2/79

Sample Date: 3/1/79

SAMPLE IDENTIFICATION	SAMPLE DATE	PARAMETER (UNITS OF MEASURE)	
		TURBIDITY (NTU)	TOTAL SUSPENDED SOLIDS (mg/l)
Parkway West - Surface	3/1/79	8.42	11.2
Parkway West - Bottom	3/1/79	7.51	11.6
Parkway Center - Surface	3/1/79	7.41	7.4
Parkway Center - Bottom	3/1/79	7.10	8.0
Parkway East - Surface	3/1/79	6.87	8.4
Parkway East - Bottom	3/1/79	7.05	9.1
Adams Street - West	3/1/79	7.01	8.4
Adams Street - East	3/1/79	1.82	8.0
Raw Water	3/1/79	1.71	4.2
006 Outfall	3/1/79	1.88	6.4
River Sample	3/1/79	1.54	2.8

COMMENTS: Samples were collected by Recra Research, Inc. personnel on 3/1/79. Turbidity and Suspended Solids analyses were performed according to methods presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater.



FOR RECRA RESEARCH, INC.

Robert K. West

DATE 4-2-79

ANALYTICAL RESULTS

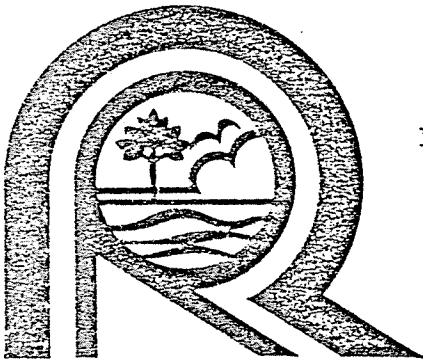
E. I. duPONT deNEMOURS AND COMPANY, INC.
Total Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 3/30/79

Sample Date: 3/6/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION					
		PARKWAY WEST		PARKWAY CENTER		PARKWAY EAST	
		SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
Total Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.015
	µg/l as Aroclor 1221	<0.010	<0.010	<0.010	<0.010	<0.010	<0.015
	µg/l as Aroclor 1232	<0.010	<0.010	<0.010	<0.010	<0.010	<0.015
	µg/l as Aroclor 1242	<0.010	<0.010	<0.010	<0.010	<0.010	<0.015
	µg/l as Aroclor 1248	0.083	0.024	0.071	0.074	0.091	0.081
	µg/l as Aroclor 1254	<0.010	<0.010	<0.010	<0.010	<0.020	<0.015
	µg/l as Aroclor 1260	<0.010	<0.010	<0.010	<0.010	<0.020	<0.015
	µg/l as Aroclor 1262	<0.010	<0.010	<0.010	<0.010	<0.020	<0.015
	µg/l as Aroclor 1268	<0.010	<0.010	<0.010	<0.010	<0.020	<0.015

COMMENTS: Samples were collected by Recra Research, Inc. personnel on 3/6/79. All analyses were performed according to U.S. Environmental Protection Agency methodologies.



FOR RECRA RESEARCH, INC.

DATE 4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

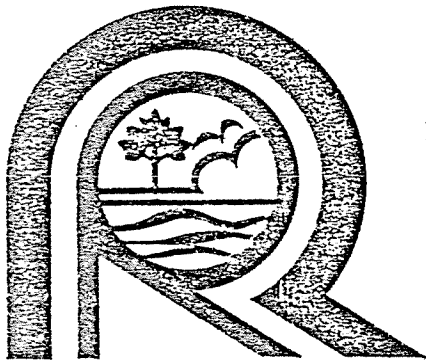
E. I. duPONT deNEMOURS AND COMPANY, INC.
Total Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 3/30/79

Sample Date: 3/6/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION	
		ADAMS STREET WEST	ADAMS STREET EAST
Total Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.005	<0.005
	µg/l as Aroclor 1221	<0.005	<0.005
	µg/l as Aroclor 1232	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005
	µg/l as Aroclor 1248	<0.005	<0.005
	µg/l as Aroclor 1254	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005

COMMENTS: (Continued from page 1 of 5). Samples upon request were split into two fractions. The first fraction was analyzed without filtration and the results are reported as Total PCB's.



FOR RECRA RESEARCH, INC.

DATE 4-2-79

RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

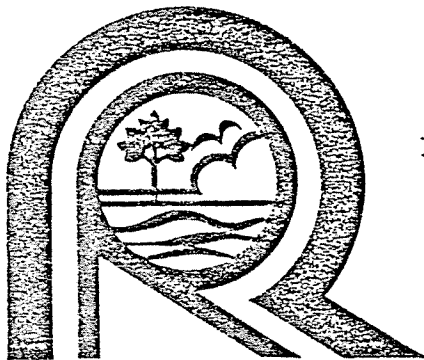
E. I. duPONT deNEMOURS AND COMPANY, INC.
Soluble Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 3/30/79

Sample Date: 3/6/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION					
		PARKWAY WEST		PARKWAY CENTER		PARKWAY EAST	
		SURFACE	BOTTOM	SURFACE	BOTTOM	SURFACE	BOTTOM
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1221	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1232	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1248	<0.005	<0.005	0.010	0.027	0.015	0.032
	µg/l as Aroclor 1254	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

COMMENTS: (Continued from page 2 of 5). The second fraction was filtered through 0.45µ filters prior to analyses and the results are reported as Soluble PCB's. Values reported as "less than" indicate the working detection limits for the particular Aroclor/sample.



FOR RECRA RESEARCH, INC.

DATE 4-2-79

ANALYTICAL RESULTS

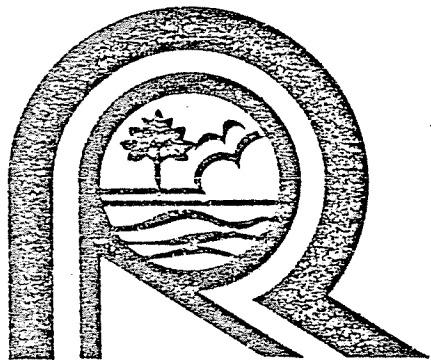
E. I. duPONT deNEMOURS AND COMPANY, INC.
Soluble Polychlorinated Biphenyl Analyses of Gill Creek Water

Report Date: 3/30/79

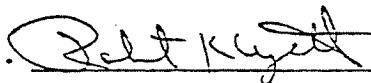
Sample Date: 3/6/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION	
		ADAMS STREET WEST	ADAMS STREET EAST
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.005	<0.005
	µg/l as Aroclor 1221	<0.005	<0.005
	µg/l as Aroclor 1232	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005
	µg/l as Aroclor 1248	<0.005	<0.005
	µg/l as Aroclor 1254	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005

COMMENTS: (Continued from page 3 of 5). Differences in detectabilities are a consequence of difference in extraction or analyses variables such as volume extracted, final extract volume and/or injection volume.



FOR RECRA RESEARCH, INC.


DATE 4-2-79

ANALYTICAL RESULTS

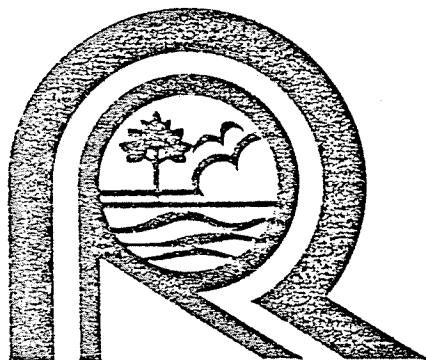
E. I. duPONT deNEMOURS AND COMPANY, INC.
Analyses of Gill Creek Water

Report Date: 3/30/79

Sample Date: 3/6/79

SAMPLE IDENTIFICATION	SAMPLE DATE	PARAMETER (UNITS OF MEASURE)	
		Turbidity (NTU)	Total Suspended Solids (mg/l)
Parkway West - Surface	3/6/79	9.9	10.8
Parkway West - Bottom	3/6/79	9.4	11.6
Parkway Center - Surface	3/6/79	11.0	13.2
Parkway Center - Bottom	3/6/79	10.4	12.4
Parkway East - Surface	3/6/79	11.5	13.2
Parkway East - Bottom	3/6/79	10.8	13.2
Adams Street - West	3/6/79	10.5	13.6
Adams Street - East	3/6/79	11.6	13.5

COMMENTS: Samples were collected by Recra Research, Inc. personnel on 3/6/79. Turbidity and Suspended Solids were performed according to methods presented in the 14th Edition of Standard Methods for the Examination of Water and Wastewater.



FOR RECRA RESEARCH, INC.

DATE

Paul Kyatt

4-2-79

ANALYTICAL RESULTS

E. I. du PONT de NEMOURS & COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

Report Date: 5/17/79

Sample Date: 4/12/79

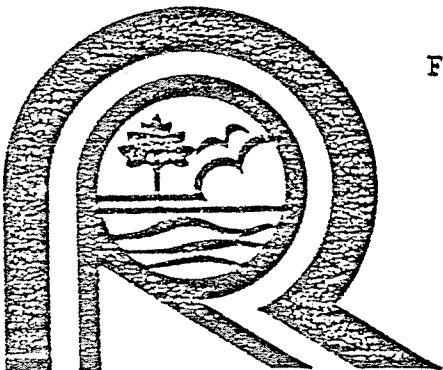
PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
	µg/l as Aroclor 1016	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1221	<0.005	<0.005	<0.005	<0.005
Total Polychlorinated Biphenyls	µg/l as Aroclor 1232	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1248	0.296	0.469	0.183	0.857
	µg/l as Aroclor 1254	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005	<0.005	<0.005

COMMENTS: Samples were collected by Recra personnel and received at our laboratories on 4/12/79. All analyses were performed according to U. S. Environmental Protection Agency methodologies. Parkway samples were collected from the South side of the bridge.

FOR RECRA RESEARCH, INC.

Robert Klyck

DATE 5/20/79



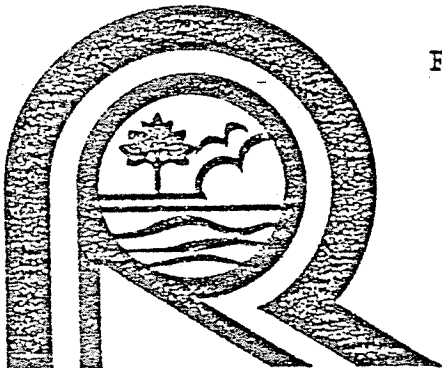
ANALYTICAL RESULTS

E. I. du PONT deNEMOURS & COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

Report Date: 5/17/79
 Sample Date: 4/12/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1016	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1221	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1232	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1248	0.062	0.478	0.044	0.142
	µg/l as Aroclor 1254	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005	<0.005	<0.005

COMMENTS: (Continued from Page 1 of 3). Values reported as "less than" indicate working detection limits for the particular Aroclor/sample.



FOR RECRA RESEARCH, INC.

Robert K. Lynch

DATE 5/20/79

ANALYTICAL RESULTS

E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

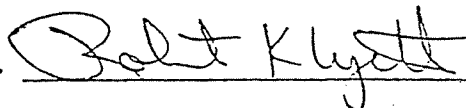
Report Date: 6/14/79

Sample Date: 5/15/79

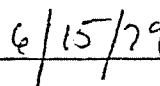
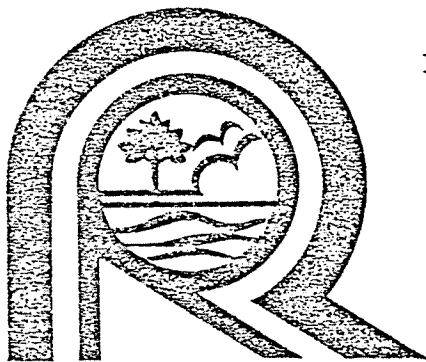
PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
	µg/l as Aroclor 1016	<0.010	<0.005	<0.005	<0.005
	µg/l as Aroclor 1221	<0.010	<0.005	<0.005	<0.005
Total	µg/l as Aroclor 1232	<0.010	<0.005	<0.005	<0.005
Polychlorinated	µg/l as Aroclor 1242	<0.005	<0.005	<0.005	<0.005
Biphenyls	µg/l as Aroclor 1248	0.184	0.091	0.108	0.095
	µg/l as Aroclor 1254	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005	<0.005	<0.005

COMMENTS: Samples were collected by Recra personnel and received at our laboratories on 5/15/79. All analyses were performed according to U. S. Environmental Protection Agency methodologies. Parkway samples were collected from the South side of the bridge.

FOR RECRA RESEARCH, INC.



DATE

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

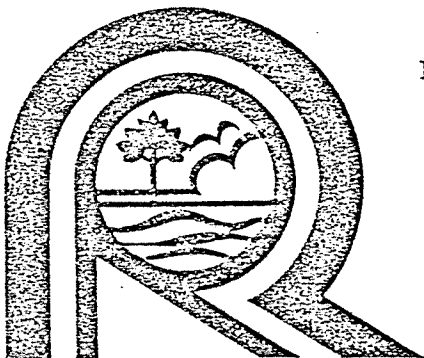
E. I. du PONT de NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

Report Date: 6/14/79

Sample Date: 5/15/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
	µg/l as Aroclor 1016	<0.010	<0.005	<0.005	<0.005
	µg/l as Aroclor 1221	<0.010	<0.005	<0.005	<0.005
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1232	<0.010	<0.005	<0.005	<0.005
	µg/l as Aroclor 1242	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1248	0.044	<0.005	0.022	<0.005
	µg/l as Aroclor 1254	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1260	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1262	<0.005	<0.005	<0.005	<0.005
	µg/l as Aroclor 1268	<0.005	<0.005	<0.005	<0.005

COMMENTS: (Continued from Page 1 of 3). Values reported as "less than" indicate working detection limits for the particular Aroclor/sample. Differences in detectability for Aroclor 1016, 1221 and 1232 are a function of the presence of early eluting non PCB peaks seen in the chromatogram of the Adams Street sample.



FOR RECRA RESEARCH, INC.

Robert K. Lyell

DATE

6/15/79

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

E. I. du PONT de NEMOURS & COMPANY, INC.
ANALYSES OF GILL CREEK WATER

Report Date: 6/14/79
Sample Date: 5/15/79

<u>SAMPLE IDENTIFICATION</u>	<u>TOTAL SUSPENDED SOLIDS; 103°C (mg/l)</u>	<u>TURBIDITY (NTU)</u>
Adams Street	12.2	6.0
Parkway East	4.6	3.0
Parkway Center	4.6	2.5
Parkway West	6.8	2.0

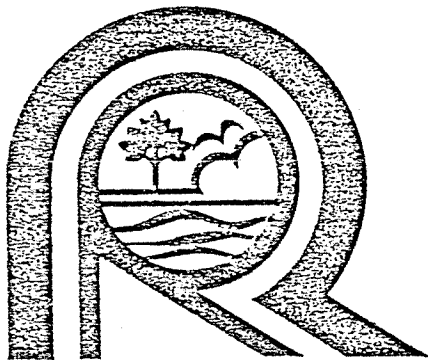
COMMENTS: Samples were collected by Recra personnel and received on 5/15/79. All analyses were completed according to U. S. Environmental Protection Agency methodologies. Parkway samples were collected from the South side of the bridge.

FOR RECRA RESEARCH, INC.

Robert Kuyatt

DATE

6/15/79



ANALYTICAL RESULTS

E. I. DU PONT DE NEMOURS & COMPANY, INC.
POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

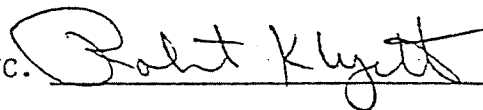
Report Date: 6/29/79

Sample Date: 6/18/79

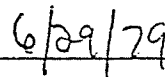
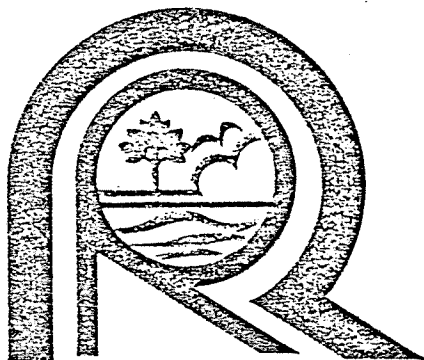
PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
	µg/l as Aroclor 1016	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1221	<0.01	<0.01	<0.01	<0.01
Total Polychlorinated Biphenyls	µg/l as Aroclor 1232	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1242	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1248	1.44	1.68	1.67	1.19
	µg/l as Aroclor 1254	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1260	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1262	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1268	<0.01	<0.01	<0.01	<0.01

COMMENTS: Samples were collected by Recra personnel and received at our laboratories on 6/18/79. All analyses were performed according to U. S. Environmental Protection Agency methodologies. Parkway samples were collected from the south side of the bridge.

FOR RECRA RESEARCH, INC.



DATE

RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

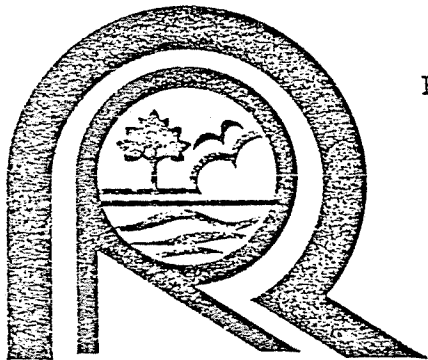
E. I. DU PONT DE NEMOURS & COMPANY, INC.
 POLYCHLORINATED BIPHENYL ANALYSES OF GILL CREEK WATER

Report Date: 6/29/79
 Sample Date: 6/13/79

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION			
		ADAMS STREET	PARKWAY EAST	PARKWAY CENTER	PARKWAY WEST
	µg/l as Aroclor 1016	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1221	<0.01	<0.01	<0.01	<0.01
Soluble Polychlorinated Biphenyls	µg/l as Aroclor 1232	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1242	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1248	0.44	0.57	0.43	0.44
	µg/l as Aroclor 1254	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1260	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1262	<0.01	<0.01	<0.01	<0.01
	µg/l as Aroclor 1268	<0.01	<0.01	<0.01	<0.01

<0.01 A
 <0.01 B

COMMENTS: (Continued from Page 1 of 3). Values reported as "less than" indicate working detection limits for the particular Aroclor/sample.



FOR RECRA RESEARCH, INC.

Ralph K. Lynch

DATE

6/29/79

ANALYTICAL RESULTS

E. I. DU PONT DE NEMOURS & COMPANY, INC.
ANALYSES OF GILL CREEK WATER

Report Date: 6/29/79
Sample Date: 6/18/79

<u>SAMPLE IDENTIFICATION</u>	<u>TOTAL SUSPENDED SOLIDS; 103°C (mg/l)</u>	<u>TURBIDITY (NTU)</u>
Adams Street	5.9	3.6
Parkway East	3.5	1.3
Parkway Center	4.2	1.7
Parkway West	4.4	2.7

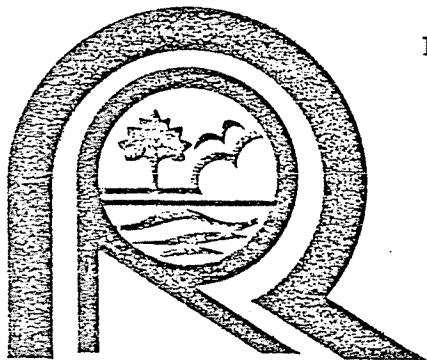
COMMENTS: Samples were collected by Recra personnel and received on 6/18/79. All analyses were completed according to U. S. Environmental Protection Agency methodologies. Parkway samples were collected from the south side of the bridge.

FOR RECRA RESEARCH, INC.

Robert K. Lyett

DATE

6/29/79



RECRA RESEARCH, INC. 111 Wales Avenue/Tonawanda, New York 14150/(716) 692-7620
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

GILL CREEK SEDIMENT SAMPLE ANALYSES
SOUTH SIDE OF PARKWAY BRIDGE

ANALYTICAL RESULTS

E. I. du PONT de NEMOURS & CO., INC.
 POLYCHLORINATED BIPHENYL ANALYSES
 GILL CREEK SEDIMENT CORES

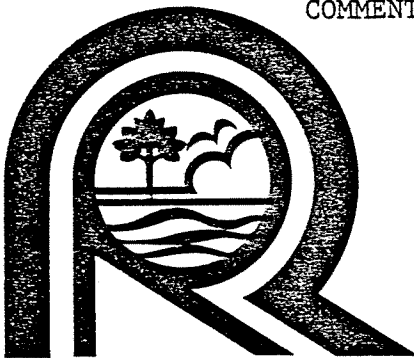
Report Date: 5/11/79
 Sample Date: 3/01/79, 3/12/79

SAMPLE IDENTIFICATION	CORE SECTION (INCH)	% DRY WEIGHT	POLYCHLORINATED BIPHENYL RESULT ($\mu\text{g/g}$ dry) AS AROCLOR							
			1016	1221	1232	1242	1248	1254	1260	1268
Parkway East	0-1.5	81.3	< 1.0	< 1.0	< 1.0	< 1.0	392	< 1.0	< 1.0	< 1.0
	1.5-3.0	50.0	< 5.0	< 5.0	< 5.0	< 5.0	1730	< 5.0	< 5.0	< 5.0
	3.0-4.5	48.0	< 5.0	< 5.0	< 5.0	< 5.0	2150	< 5.0	< 5.0	< 5.0
	4.5-6.0	51.0	< 5.0	< 5.0	< 5.0	< 5.0	2600	< 5.0	< 5.0	< 5.0
	6.0-9.0	35.0	< 5.0	< 5.0	< 5.0	< 5.0	834	< 5.0	< 5.0	< 5.0
	9.0-12.0	54.0	< 1.0	< 1.0	< 1.0	< 1.0	303	< 1.0	< 1.0	< 1.0
	12.0-15.0	60.0	< 5.0	< 5.0	< 5.0	< 5.0	650	< 5.0	< 5.0	< 5.0
	15.0-18.0	54.0	< 1.0	< 1.0	< 1.0	< 1.0	34.6	< 1.0	< 1.0	< 1.0
Parkway West	0-2.0	68.9	< 5.0	< 5.0	< 5.0	< 5.0	469	< 5.0	< 5.0	< 5.0
	2.0-4.0	49.8	< 5.0	< 5.0	< 5.0	< 5.0	831	< 5.0	< 5.0	< 5.0
	4.0-6.0	100	< 5.0	< 5.0	< 5.0	< 5.0	641	< 5.0	< 5.0	< 5.0
	6.0-8.5	70.0	< 5.0	< 5.0	< 5.0	< 5.0	1170	< 5.0	< 5.0	< 5.0
	8.5-11.0	43.7	< 5.0	< 5.0	< 5.0	< 5.0	5810	< 5.0	< 5.0	< 5.0
	11.0-13.5	33.1	-	-	-	-	-	-	-	-
	13.5-15.0	53.0	< 5.0	< 5.0	< 5.0	< 5.0	716	< 5.0	< 5.0	< 5.0
	15.0-16.5	50.0	< 5.0	< 5.0	< 5.0	< 5.0	448	< 5.0	< 5.0	< 5.0
	16.5-18.0	45.0	< 5.0	< 5.0	< 5.0	< 5.0	2280	< 5.0	< 5.0	< 5.0
	18.0-20.0	58.0	< 1.0	< 1.0	< 1.0	< 1.0	246	< 1.0	< 1.0	< 1.0
	20.0-22.0	58.0	< 1.0	< 1.0	< 1.0	< 1.0	71.0	< 1.0	< 1.0	< 1.0
	22.0-24.0	55.0	< 1.0	< 1.0	< 1.0	< 1.0	149	< 1.0	< 1.0	< 1.0
	24.0-26.0	57.0	< 1.0	< 1.0	< 1.0	< 1.0	21.9	< 1.0	< 1.0	< 1.0
26.0-28.0	59.0	< 1.0	< 1.0	< 1.0	< 1.0	73.8	< 1.0	< 1.0	< 1.0	
Parkway West	18.0-20.0 contaminate	-	< 1.0	< 1.0	< 1.0	< 1.0	140	< 1.0	< 1.0	< 1.0
007	surface grab	65.5	< 10	< 10	< 10	< 10	3540	< 10	< 10	< 10

COMMENTS: Core samples were collected with K-B corer by Recra personnel on 3/1/79 and 3/12/79. The second sampling was initiated in an attempt to obtain longer cores. On 3/12/79, the Parkway East core could not be collected due to ice cover. The Parkway East data reported is from the 3/1/79 collection. Parkway West, 11.0-13.5 inch sample was lost during preparation. Parkway Center #1 (continued on page 2 of 2)

FOR RECRA RESEARCH, INC. 

DATE 5/16/79



RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620
 TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

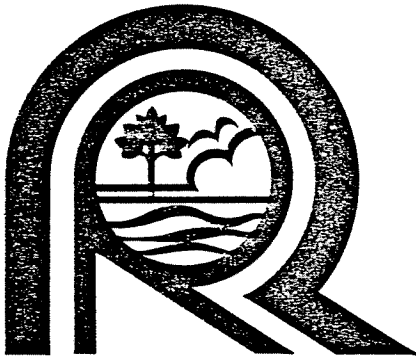
E. I. duPONT de NEMOURS & CO., INC.
 POLYCHLORINATED BIPHENYL ANALYSES
 GILL CREEK SEDIMENT CORES

Report Date: 5/11/79

Sample Date: 3/01/79, 3/12/79

SAMPLE IDENTIFICATION	CORE SECTION (INCH)	% DRY WEIGHT	POLYCHLORINATED BIPHENYL RESULT ($\mu\text{g/g}$ dry) AS AROCLOR							
			1016	1221	1232	1242	1248	1254	1260	1268
Parkway Center #1	0-1.5	71.0	< 5.0	< 5.0	< 5.0	< 5.0	1210	< 5.0	< 5.0	< 5.0
	1.5-3.0	72.0	< 5.0	< 5.0	< 5.0	< 5.0	768	< 5.0	< 5.0	< 5.0
	3.0-5.5	52.0	< 5.0	< 5.0	< 5.0	< 5.0	451	< 5.0	< 5.0	< 5.0
	5.5-8.0	51.0	< 5.0	< 5.0	< 5.0	< 5.0	800	< 5.0	< 5.0	< 5.0
	8.0-10.5	86.0	< 5.0	< 5.0	< 5.0	< 5.0	368	< 5.0	< 5.0	< 5.0
	10.5-13.0	52.0	< 1.0	< 1.0	< 1.0	< 1.0	17.8	< 1.0	< 1.0	< 1.0
	13.0-15.5	54.0	< 1.0	< 1.0	< 1.0	< 1.0	40.8	< 1.0	< 1.0	< 1.0
	15.5-17.5	43.0	< 1.0	< 1.0	< 1.0	< 1.0	120	< 1.0	< 1.0	< 1.0
	17.5-19.5	44.0	< 1.0	< 1.0	< 1.0	< 1.0	104	< 1.0	< 1.0	< 1.0
Parkway Center #2	0-2.0	64.0	< 5.0	< 5.0	< 5.0	< 5.0	1300	< 5.0	< 5.0	< 5.0
	2.0-4.0	65.0	< 10.0	< 10.0	< 10.0	< 10.0	16900	< 10.0	< 10.0	< 10.0
	4.0-6.0	72.0	< 5.0	< 5.0	< 5.0	< 5.0	442	< 5.0	< 5.0	< 5.0
	6.0-8.5	59.0	< 1.0	< 1.0	< 1.0	< 1.0	32.7	< 1.0	< 1.0	< 1.0
	8.5-11.0	58.0	< 5.0	< 5.0	< 5.0	< 5.0	812	< 5.0	< 5.0	< 5.0
	11.0-13.5	45.0	< 5.0	< 5.0	< 5.0	< 5.0	1250	< 5.0	< 5.0	< 5.0
	13.5-15.0	45.0	< 5.0	< 5.0	< 5.0	< 5.0	765	< 5.0	< 5.0	< 5.0
	15.0-17.5	53.0	< 5.0	< 5.0	< 5.0	< 5.0	424	< 5.0	< 5.0	< 5.0
	17.5-20.0	57.0	< 1.0	< 1.0	< 1.0	< 1.0	268	< 1.0	< 1.0	< 1.0
	20.0-22.0	54.0	< 1.0	< 1.0	< 1.0	< 1.0	102	< 1.0	< 1.0	< 1.0
	22.0-24.0	61.0	< 1.0	< 1.0	< 1.0	< 1.0	61.0	< 1.0	< 1.0	< 1.0
	24.0-26.0	53.0	< 5.0	< 5.0	< 5.0	< 5.0	1440	< 5.0	< 5.0	< 5.0
26.0-28.0	55.0	< 5.0	< 5.0	< 5.0	< 5.0	407	< 5.0	< 5.0	< 5.0	

COMMENTS: (continued from page 1 of 2) and #2 were collected from the east and west ends of the center of the bridge, respectively. The Parkway West 18.0-20.0 inch contaminate results reported are the result of the analyses of small rubber-like pellets found in this core section and analyzed separately. Values reported as "less than" indicate the working detection limits for the particular Aroclor. Differences in detectabilities are a function of variance in the extraction and analyses variable required to produce quantifiable chromatograms.



FOR RECRA RESEARCH, INC.

DATE

5/15/79

ANALYTICAL RESULTS

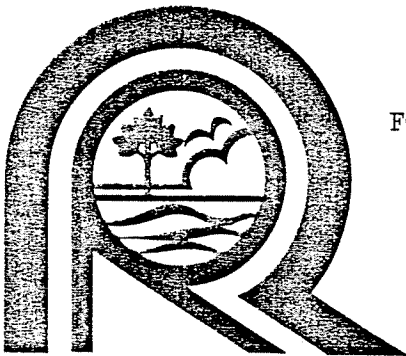
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY EAST				
		0-1.5"	1.5-1.0"	3.0-4.5"	4.5-6.0"	6.0-9.0"
monochlorobenzene	µg/g (dry)	>2000	>2000	>2000	>2000	>2000
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3,5-tetrachlorobenzene	µg/g (dry)	<0.05	<0.05	<0.05	69.0	0.2
1,2,3,4-tetrachlorobenzene	µg/g (dry)	4.9	8.6	<0.05	22.8	4.5
pentachlorobenzene	µg/g (dry)	1.7	1.6	0.02	8.3	1.0
hexachlorobenzene	µg/g (dry)	37.3	31.8	0.38	31.2	20.4

COMMENTS: Core samples were collected with K-B corer by Recra personnel on 3/1/79 and 3/12/79. The second sampling was initiated in an attempt to obtain longer cores. On 3/12/79, the Parkway East core could not be collected due to ice cover. The Parkway East data reported is from the 3/1/79 collection. Parkway West, 11.0-13.5 inch sample was lost during initial preparation.



FOR RECRA RESEARCH, INC.

DATE 6/25/79

RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620
TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

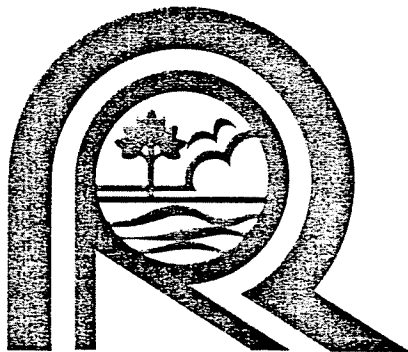
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY EAST				
		9.0-12.0"	12.0-15.0"	15.0-18.0"	-	-
monochlorobenzene	µg/g (dry)	>2000	373	3647	-	-
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	-	-
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	-	-
1,2,3-trichlorobenzene	µg/g (dry)	<0.1	0.1	4.0	-	-
1,2,3,5-tetrachlorobenzene	µg/g (dry)	9.5	0.19	0.88	-	-
1,2,3,4-tetrachlorobenzene	µg/g (dry)	1.8	0.16	1.3	-	-
pentachlorobenzene	µg/g (dry)	1.4	0.11	0.85	-	-
hexachlorobenzene	µg/g (dry)	11.3	0.56	5.0	-	-

COMMENTS: (Continued from page 1 of 10). The Parkway West, 2.0-4.0" sample and the Parkway West 15.0-16.5" sample extracts were lost during attempts to dilute the original extract prior to chlorobenzene analysis.



FOR RECRA RESEARCH, INC.

DATE 6/25/79

ANALYTICAL RESULTS

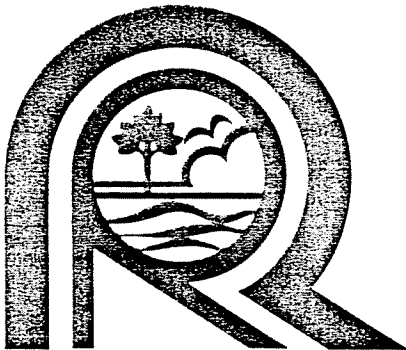
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY WEST				
		0-2.0"	2.0-4.0"	4.0-6.0"	6.0-8.5"	8.5-11.0"
monochlorobenzene	µg/g (dry)	1896	-	>2000	>2000	>2000
ortho-dichlorobenzene	µg/g (dry)	<0.5	-	<0.5	<0.5	<10
meta-dichlorobenzene	µg/g (dry)	<0.5	-	<0.5	<0.5	1750
para-dichlorobenzene	µg/g (dry)	<0.5	-	<0.5	<0.5	<5.0
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	-	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	-	<0.1	<0.1	7.1
1,2,3-trichlorobenzene	µg/g (dry)	1.6	-	82.1	<0.1	<0.1
1,2,3,5-tetrachlorobenzene	µg/g (dry)	34.5	-	5.9	18.6	2550
1,2,3,4-tetrachlorobenzene	µg/g (dry)	53.2	-	<0.05	<0.05	<10
pentachlorobenzene	µg/g (dry)	1.8	-	3.2	10.2	<0.05
hexachlorobenzene	µg/g (dry)	45.0	-	95.4	292	261

COMMENTS: (Continued from page 2 of 10). Parkway Center #1 and #2 were collected from the east and west ends of the center of the bridge, respectively. Values reported as "less than" indicate the working detection limits for the particular Aroclor. Differences in detectabilities are a function of variance in the extraction and analyses variables required to produce quantifiable chromatograms.



FOR RECRA RESEARCH, INC.

Robert K. Lyett

DATE 6/25/79

ANALYTICAL RESULTS

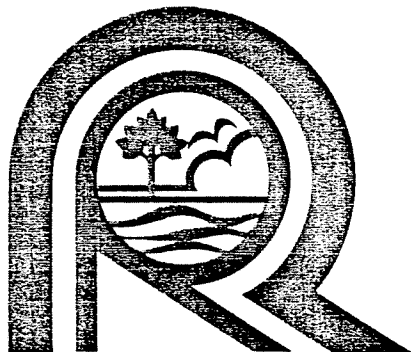
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY WEST				
		11.0-13.5"	13.5-15.0"	15.0-16.5"	16.5-18.0"	18.0-20.0"
monochlorobenzene	µg/g (dry)	-	>2000	-	1833	1452
ortho-dichlorobenzene	µg/g (dry)	-	<0.5	-	<0.5	<0.5
meta-dichlorobenzene	µg/g (dry)	-	<0.5	-	<0.5	<0.5
para-dichlorobenzene	µg/g (dry)	-	<0.5	-	<0.5	<0.5
1,3,5-trichlorobenzene	µg/g (dry)	-	<0.1	-	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	-	<0.1	-	<0.1	<0.1
1,2,3-trichlorobenzene	µg/g (dry)	-	<0.1	-	19.3	16.3
1,2,3,5-tetrachlorobenzene	µg/g (dry)	-	3.5	-	2.2	1.8
1,2,3,4-tetrachlorobenzene	µg/g (dry)	-	1.5	-	1.8	1.6
pentachlorobenzene	µg/g (dry)	-	4.7	-	8.2	7.4
hexachlorobenzene	µg/g (dry)	-	50.6	-	4.9	5.3

COMMENTS: (Continued from page 3 of 10). The same extracts used for PCB analyses, which were reported on 5/11/79, were used for the chlorobenzene analyses.



FOR RECRA RESEARCH, INC.

Robert Klyeth

DATE

6/25/79

ANALYTICAL RESULTS

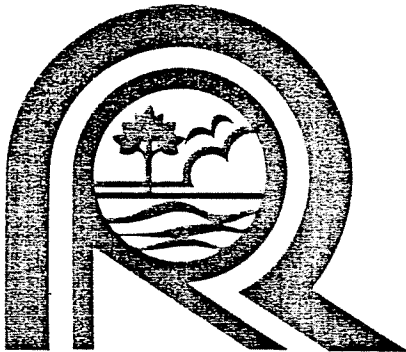
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY WEST				
		20.0-22.0"	22.0-24.0"	24.0-26.0"	26.0-28.0"	-
monochlorobenzene	µg/g (dry)	3150	258	>2000	>2000	-
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	-
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	-
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	-
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	-
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	-
1,2,3-trichlorobenzene	µg/g (dry)	8.4	7.4	139	8.9	-
1,2,3,5-tetrachlorobenzene	µg/g (dry)	<0.05	1.4	22.4	3.2	-
1,2,3,4-tetrachlorobenzene	µg/g (dry)	<0.05	1.5	<0.05	<0.05	-
pentachlorobenzene	µg/g (dry)	1.4	10.4	103	4.2	-
hexachlorobenzene	µg/g (dry)	9.2	3.7	283	11.9	-

COMMENTS: (Continued from page 4 of 10). The acetone-hexane (1:1) extracts were analyzed via an electron capture equipped gas-liquid chromatograph. A 1% SP-2250 on 100/120 mesh Supelcoport column was used.



FOR RECRA RESEARCH, INC.

Robert Klyth

DATE

6/25/79

ANALYTICAL RESULTS

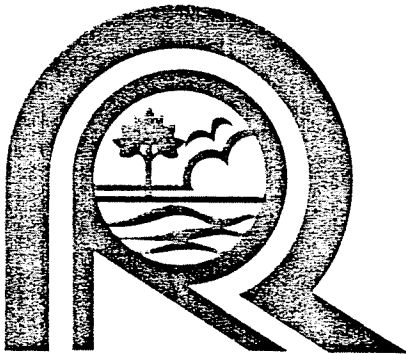
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY CENTER #1				
		0-1.5"	1.5-3.0"	3.0-5.5"	5.5-8.0"	8.0-10.5"
monochlorobenzene	µg/g (dry)	900	2010	>2000	>2000	2983
ortho-dichlorobenzene	µg/g (dry)	850	1500	<0.5	<0.5	<0.5
meta-dichlorobenzene	µg/g (dry)	7.3	6.8	<0.5	<0.5	<0.5
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	µg/g (dry)	50.4	43.4	38.3	<0.1	3.6
1,2,3,5-tetrachlorobenzene	µg/g (dry)	10.1	6.8	<0.05	570	<0.05
1,2,3,4-tetrachlorobenzene	µg/g (dry)	16.9	11.0	<0.05	6.3	<0.05
pentachlorobenzene	µg/g (dry)	0.79	0.78	1.56	5.0	0.25
hexachlorobenzene	µg/g (dry)	8.2	10.2	22.9	48.3	3.9

COMMENTS: (Continued from page 5 of 10). In order to maximize separation of the chlorobenzenes and PCB's known to be present in the samples, a programmed GC run was used. This program included an initial oven temperature of 50°C held for 10 minutes. The temperature was then ramped to 200°C at a rate of 7°C/min. and held at 200°C for at least 45 minutes.



FOR RECRA RESEARCH, INC.

DATE 6/25/79

ANALYTICAL RESULTS

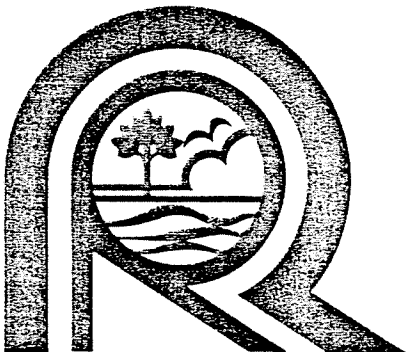
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY CENTER #1				
		10.5-13.0"	13.0-15.5"	15.5-17.5"	17.5-19.5"	-
monochlorobenzene	µg/g (dry)	1370	>2000	>2000	20,000	-
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	1186	<0.5	-
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	2150	<0.5	-
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<100	<0.5	-
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<1.0	<0.1	-
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<1.0	<0.1	-
1,2,3-trichlorobenzene	µg/g (dry)	11.0	77.3	347	8.0	-
1,2,3,5-tetrachlorobenzene	µg/g (dry)	1.6	<0.05	<0.5	<0.05	-
1,2,3,4-tetrachlorobenzene	µg/g (dry)	1.2	<0.05	<0.5	<0.05	-
pentachlorobenzene	µg/g (dry)	3.9	4.5	<0.1	316	-
hexachlorobenzene	µg/g (dry)	11.0	9.0	11.7	3.0	-

COMMENTS: (Continued from page 6 of 10). The total run time for each analysis was from 75 to 90 minutes. This program, on the above mentioned column, allowed separation of all chlorobenzenes except the 1,2,3,5- and 1,2,4,5-isomers of tetrachlorobenzene.



FOR RECRA RESEARCH, INC.

DATE 6/25/79

ANALYTICAL RESULTS

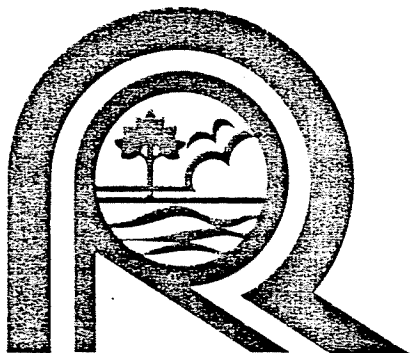
E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79
Sample Date: March 1, 1979
March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY CENTER #2				
		0-2.0"	2.0-4.0"	4.0-6.0"	6.0-8.5"	8.5-11.0"
monochlorobenzene	µg/g (dry)	>2000	>2000	>2000	>2000	>2000
ortho-dichlorobenzene	µg/g (dry)	<0.5	2634	<0.5	<0.5	<0.5
meta-dichlorobenzene	µg/g (dry)	<0.5	32.6	<0.5	<0.5	<0.5
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	µg/g (dry)	282	243	<0.1	<0.1	<0.1
1,2,3,5-tetrachlorobenzene	µg/g (dry)	83.5	67.7	5.7	23.8	<0.05
1,2,3,4-tetrachlorobenzene	µg/g (dry)	96.5	65.3	3.5	11.4	10.2
pentachlorobenzene	µg/g (dry)	6.0	4.3	0.9	41.5	6.3
hexachlorobenzene	µg/g (dry)	47.6	36.1	9.4	32.4	38.4

COMMENTS: (Continued from page 7 of 10). The reported 1,2,3,5-tetrachlorobenzene values are based upon the response factor of this isomer and represent the concentration of 1,2,3,5- and/or 1,2,4,5-tetrachlorobenzene.



FOR RECRA RESEARCH, INC.

DATE

6/25/79

RECRA RESEARCH, INC. 111 Wales Avenue / Tonawanda, New York 14150 / (716) 692-7620

TOTAL CHEMICAL WASTE MANAGEMENT THROUGH APPLIED RESEARCH

ANALYTICAL RESULTS

E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79

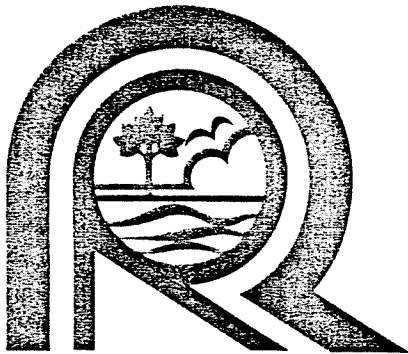
Sample Date: March 1, 1979

March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY CENTER #2				
		11.0-13.5"	13.5-15.0"	15.0-17.5"	17.5-20.0"	20.0-22.0"
monochlorobenzene	µg/g (dry)	>2000	>2000	>2000	>2000	>2000
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	<0.1	10.3
1,2,3,5-tetrachlorobenzene	µg/g (dry)	48.9	8.3	10.4	2.2	0.18
1,2,3,4-tetrachlorobenzene	µg/g (dry)	41.6	<0.05	<0.05	<0.05	<0.05
pentachlorobenzene	µg/g (dry)	10.8	2.9	4.0	1.5	7.7
hexachlorobenzene	µg/g (dry)	30.6	30.2	22.4	12.6	208

COMMENTS: (Continued from page 8 of 10). The majority of samples illustrated a copious quantity of monochlorobenzene in the extracts. All samples were diluted and reanalyzed at least once. The reanalyzed dilutions still caused the detector to be "flooded" for the monochlorobenzene peak. "Flooding" the detector caused inaccurate integration of the monochlorobenzene peak.



FOR RECRA RESEARCH, INC.

DATE 6/25/79

ANALYTICAL RESULTS

E. I. DU PONT DE NEMOURS & COMPANY, INC.
GILL CREEK SEDIMENT CORES

Report Date: 6/22/79

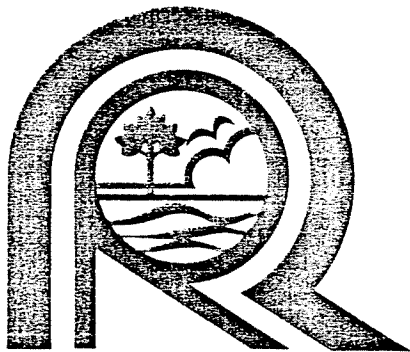
Sample Date: March 1, 1979

March 12, 1979

ANALYSES OF CHLOROBENZENES

PARAMETER	UNITS OF MEASURE	SAMPLE IDENTIFICATION (DEPTH)				
		PARKWAY CENTER #2				
		22.0-24.0'	24.0-26.0'	26.0-28.0'	-	-
monochlorobenzene	µg/g (dry)	>2000	>2000	>2000	-	-
ortho-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
meta-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
para-dichlorobenzene	µg/g (dry)	<0.5	<0.5	<0.5	-	-
1,3,5-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	-	-
1,2,4-trichlorobenzene	µg/g (dry)	<0.1	<0.1	<0.1	-	-
1,2,3-trichlorobenzene	µg/g (dry)	13.6	219	67.8	-	-
1,2,3,5-tetrachlorobenzene	µg/g (dry)	<0.05	32.3	<0.05	-	-
1,2,3,4-tetrachlorobenzene	µg/g (dry)	<0.05	<0.05	<0.05	-	-
pentachlorobenzene	µg/g (dry)	1.8	7.9	2.6	-	-
hexachlorobenzene	µg/g (dry)	5.7	43.0	12.7	-	-

COMMENTS: (Continued from page 9 of 10). Due to the time required to analyze each sample and the number of samples to be analyzed many monochlorobenzene results are reported as greater than 2000 µg/g (dry). This value represents the upper level of detection for monochlorobenzene in consideration of applied dilution factors. For most samples, so reported, the concentrations of monochlorobenzene are believed to be much higher than 2000 µg/g (dry).



FOR RECRA RESEARCH, INC.

Robert K. Gault

DATE 6/25/79