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Test Site

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Description Notes

ANALYTICAL DATA FOR SAMPLES FROM GULFPORT, MISS. TEST SITE.

<u>Date Rcvd.</u>	<u>Sample Identification</u>	<u>Etched #</u>	<u>WSU #</u>	<u>TCDD Found</u>	<u>Min Detectable Concentration</u>
20 Nov 75	Water #1		1-101	0	10 picograms/ml
"	Water #2		1-102	46 picograms/ml ^a	"
"	Water #3		1-103	0	"
"	Water #4		1-104	0	"
	<u>Ambient Air</u>				
12 Nov 75	APφ1Nφ8W		1-137	contaminated with cap liner	
"	APφ2Nφ8W		1-138	0	0.0003 μg/m ³
"	APφ3Nφ8W		1-139	0	0.0003 μg/m ³
"	APφ4Nφ8W		1-140	0	0.0003 μg/m ³
"	AOφ3Nφ8W		1-141	0.0005 μg/m ³	0.0003 μg/m ³
	<u>Ambient Air</u>				
10 Feb 76	AP09F09L02W	118	1-260	0	0.0003 μg/m ³

TABLE XV. (cont'd.)

ANALYTICAL DATA FOR SAMPLES FROM GULFPORT, MISS. TEST SITE.

<u>Date Rcvd.</u>	<u>Sample Identification</u>	<u>Etched #</u>	<u>WSU #</u>	<u>TCDD Found</u>	<u>Min Detectable Concentration</u>
<u>Environmental Water</u>					
13 Mar 76	EW04F11K	127	1-412	0	10 picograms/ml
"	EW11F11K	131	1-413	0	10 picograms/ml
"	EW27J11K	228	1-414	0	10 picograms/ml
<u>Recovered Acetone</u>					
24 Mar 76	XC19F09L02W	142	1-418	0.4 µg/g (herbicide fraction) ^c	0.03 µg/g
				3.39 ng/ml (acetone solution as received) ^c	c
<u>Environmental Water</u>					
26 Apr 76	Water Out Flow at Base Perimeter (4/21/76)		1-425	0	10 picograms/ml
"	Water Out Flow at Base Perimeter (4/21/76)		1-426	0	10 picograms/ml

ANALYTICAL DATA FOR SAMPLES FROM GULFPORT, MISS. TEST SITE.

<u>Date Rcvd.</u>	<u>Sample Identification</u>	<u>Etched #</u>	<u>WSU #</u>	<u>TCDD Found</u>	<u>Min Detectable Concentration</u>
26 Apr 76	Water from Drainage Ditch in Orange Storage Area (4/21/76)		1-427	0	10 picograms/ml
"	Water from Drainage Ditch in Orange Storage Area (4/21/76)		1-428	0	10 picograms/ml
"	Water from Back Bay of Biloxi (4/21/76)		1-429	0	10 picograms/ml
"	Water from Back Bay of Biloxi (4/21/76)		1-430	0	10 picograms/ml

^a Sample is being rerun to confirm this result.

^b Sample vessel had leaked in shipment; large loss of sample was evident.

^c 250 ml. of this sample were concentrated to constant volume. The residue consisted of two layers. Upper layer was clear, colorless, non-flammable, miscible with water, and appears to be water. Volume of upper layer was 0.3 ml. Bottom layer was a tan colored, viscous liquid, volume 2.1 ml and density ~ 1 g/ml. A fingerprint of the bottom layer established that it is Dow Herbicide. From the weights indicated, it is calculated that the acetone received contains 0.8% Herbicide Orange. The TCDD level in the herbicide fraction was determined to be 0.4 μ g. TCDD/g. herbicide. The TCDD concentration in the acetone solution as received is therefore 3.39 ng/ml.

TABLE XIX.

ANALYTICAL RESULTS FOR ENVIRONMENTAL WATER SAMPLES RECEIVED FROM GULFPORT, MISS TEST SITE

<u>cvd.</u>	<u>Sample Identification</u>	<u>Etched #</u>	<u>WSU #</u>	<u>TCDD Found</u>	<u>Min. Detectable Concentration (picograms/ml of water)</u>
ne 76	EW-13E10-W	272	1-459	0	40
ne 76	EW-10E11-W	273	1-460	0	40
ne 76	EW-14J-9W ^a .	311	1-482	0	20
ne 76	EW-15J-8W	312	1-483	0	20
ne 76	EW-16J-9W ^b .	313	-	-	-
ne 76	EW-17J-9-W ^a .	384	1-529	0	20
ne 76	EW-18J-10-W ^a .	385	1-530	0	20
ne 76	EW-19J-9-W ^a .	386	1-531	0	20
ne 76	EW-20E-10-W ^a .	387	1-532	0	20
ne 76	EW-21E-9-W ^a .	424	1-597	0	20
ne 76	EW-22E-10-W	425	1-598	0	20

Sample container cap was loose when container was received and some sample was lost during shipment.

Sample jar was broken during shipment and contents were lost.

Table III

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. - TCDD

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>TCDD Found (ug/ml)</u>	<u>Minimum Detectable Quantity (ug/ml)</u>
11/5/76	NC 6293 PW 01	1-714	0	0.00001
11/5/76	NC 6293 PW 02	1-715	0	0.00001
11/5/76	NC 6293 PW 03	1-716	0	0.00001
11/5/76	NC 6293 PW 04	1-717*	0	0.00001
11/5/76	NC 6293 PW 05	1-718*	0	0.00001
11/5/76	NC 6293 PW 06	1-719	0	0.00001
11/5/76	NC 6293 PW 07	1-720	0	0.00001
11/5/76	NC 6293 PW 08	1-721	0	0.00001
11/5/76	NC 6293 PW 09	1-722	0	0.00001
11/5/76	NC 6293 PW 10	1-723	0	0.00001
11/5/76	NC 6293 PW 11	1-724	0	0.00001
11/5/76	NC 6293 PW 12	1-725	0	0.00001
11/5/76	NC 6293 PW 13	1-726	0	0.00001

Table III (Cont'd)

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. - TCDD

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>TCDD Found (µg/ml)</u>	<u>Minimum Detectable Quantity (µg/ml)</u>
11/5/76	NC 6293 PW 14	1-727	0	0.00001
11/5/76	NC 6293 PW 15	1-728*	0	0.00001
11/5/76	NC 6293 PW 16	1-729	0	0.00001
11/5/76	NC 6293 PW 17	1-730*	0	0.00001
11/5/76	NC 6293 PW 18	1-731	0	0.00001
11/5/76	NC 6293 PW 19	1-732	0	0.00001
11/5/76	NC 6293 PW 20	1-733	0	0.00001

* Indicates sample leaked in shipment

Table V

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. -
BUTYL ESTERS OF 2,4-D and 2,4,5-T

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>Butyl Ester of 2,4-D (ug/ml)</u>	<u>Butyl Ester of 2,4,5-T (ug/ml)</u>	<u>Minimum Detectable Quantity (ug/ml)</u>
				0	0.0015
11/5/76	NC 6293 PW 01	1-714	0	0	0.0010
11/5/76	NC 6293 PW 02	1-715	0	0	0.0010
11/5/76	NC 6293 PW 03	1-716	0	0	0.0010
11/5/76	NC 6293 PW 04	1-717*	0	0	0.0010
11/5/76	NC 6293 PW 05	1-718*	0	0	0.0010
11/5/76	NC 6293 PW 06	1-719	0	0	0.0015
11/5/76	NC 6293 PW 07	1-720	0	0	0.0010
11/5/76	NC 6293 PW 08	1-721	0	0	0.0010
11/5/76	NC 6293 PW 09	1-722	0	0	0.0020
11/5/76	NC 6293 PW 10	1-723	0	0	0.0010
11/5/76	NC 6293 PW 11	1-724	0	0	0.0010
11/5/76	NC 6293 PW 12	1-725	0	0	0.0010

Table V (Cont'd)

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. -
BUTYL ESTERS OF 2,4-D AND 2,4,5-T

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>Butyl Ester of 2,4-D (µg/ml)</u>	<u>Butyl Ester of 2,4,5-T (µg/ml)</u>	<u>Minimum Detectable Quantity (µg/ml)</u>
11/5/76	NC 6293 PW 13	1-726	0	0	0.0015
11/5/76	NC 6293 PW 14	1-727	0	0	0.0015
11/5/76	NC 6293 PW 15	1-728*	0	0	0.0015
11/5/76	NC 6293 PW 16	1-729	0	0	0.0020
11/5/76	NC 6293 PW 17	1-730*	0	0	0.0010
11/5/76	NC 6293 PW 18	1-731	0	0	0.0050
11/5/76	NC 6293 PW 19	1-732	0	0	0.0050
11/5/76	NC 6293 PW 20	1-733	0	0	0.0050

* Indicates sample leaked in shipment.

Table VII

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. - 2,4-D AND 2,4,5-T

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>2,4-D (µg/ml)</u>	<u>2,4,5-T (µg/ml)</u>	<u>Minimum Detectable Quantity (µg/ml)</u>
11/5/76	NC 6293 PW 01	1-714	0	0	0.0010
11/5/76	NC 6293 PW 02	1-715	0	0	0.0020
11/5/76	NC 6293 PW 03	1-716	0	0	0.0050
11/5/76	NC 6293 PW 04	1-717*	0	0	0.0020
11/5/76	NC 6293 PW 05	1-718*	0	0	0.0020
11/5/76	NC 6293 PW 06	1-719	0	0	0.0020
11/5/76	NC 6293 PW 07	1-720	0	0	0.0050
11/5/76	NC 6293 PW 08	1-721	0	0	0.0020
11/5/76	NC 6293 PW 09	1-722	0	0	0.0020
11/5/76	NC 6293 PW 10	1-723	0	0	0.0020
11/5/76	NC 6293 PW 11	1-724	0	0	0.0020
11/5/76	NC 6293 PW 12	1-725	0	0	0.0020

Table VII (Cont'd)

ANALYTICAL RESULTS FOR POTABLE WATER SAMPLES FROM GULFPORT, MISS. - 2,4-D AND 2,4,5-T

<u>Date Received</u>	<u>Sample Identification</u>	<u>WSU #</u>	<u>2,4-D ($\mu\text{g/ml}$)</u>	<u>2,4,5-T ($\mu\text{g/ml}$)</u>	<u>Minimum Detectable Quantity ($\mu\text{g/ml}$)</u>
11/5/76	NC 6293 PW 13	1-726	0	0	0.0050
11/5/76	NC 6293 PW 14	1-727	0	0	0.0050
11/5/76	NC 6293 PW 15	1-728*	0	0	0.0020
11/5/76	NC 6293 PW 16	1-729	0	0	0.0050
11/5/76	NC 6293 PW 17	1-730*	0	0	0.0020
11/5/76	NC 6293 PW 18	1-731	0	0	0.0050
11/5/76	NC 6293 PW 19	1-732	0	0	0.0050
11/5/76	NC 6293 PW 20	1-733	0	0	0.0050

* Indicates sample leaked in shipment.

Table I

RESULTS OF ANALYSIS OF ENVIRONMENTAL WATER SAMPLES
FOR BUTYL 2,4-D AND BUTYL 2,4,5-T

<u>USAF Sample No.</u>	<u>WSU Sample No.</u>	<u>Esters Found (µg/ml)^a</u>	
		<u>Butyl 2,4-D</u>	<u>Butyl 2,4,5-T^b</u>
EW11J1W (Etch No. 635)	1-835	0	0
EW11J2W (Etch No. 636)	1-836	0	0
EW11J3W (Etch No. 637)	1-837	0	0

- a. The minimum detectable concentration of butyl 2,4-D and butyl 2,4,5-T which could be detected was 0.002 µg/ml for each of the esters.
- b. Owing to the interferences present in this sample, the minimum detectable concentration for each of the esters was 0.010 µg/ml.

Table 1

RESULTS OF ANALYSES OF POTABLE AND DRAINAGE WATER SAMPLES
FROM GULFPORT, MISSISSIPPI FOR 2,3,7,8-TCDD CONTENT

<u>WSU No.</u>	<u>AF No.</u>	<u>TCDD Found^a</u>	<u>Minimum Detectable Concentration (Pg/ml)</u>
1-870	D103M7W	N.D.	10
1-871	D203M7W	N.D.	10
1-872	D303M7W	N.D.	6
1-874	D503M7W	N.D.	6
1-875	D603M7W	N.D.	8
1-876	W103M7W	N.D.	4
1-877	W203M7W	N.D.	6
1-878	W303M7W	N.D.	4
1-879	W403M7W	N.D.	6
1-891	W306M7W	N.D.	12
1-892	W406M7W	N.D.	8
1-893	W506M7W	N.D.	6
1-904	W124M7W	N.D.	8
1-905	W224M7W	N.D.	4
1-906	W324M7W	N.D.	6
1-907	W424M7W	N.D.	8
1-908	W524M7W	N.D.	6
1-909	W724M7W	N.D.	6
1-916	W125M7W	N.D.	4
1-917	W225M7W	N.D.	4
1-919	W425M7W	N.D.	6
1-920	W525M7W	N.D.	6
1-921	W725M7W	N.D.	6
1-922	W624M7W	Interferences	-
1-938	W104M7W	N.D.	4
1-942	W205M7W	N.D.	7
1-943	W305M7W	N.D.	42
1-944	W405M7W	N.D.	4

Table 1

<u>WSU No.</u>	<u>AF No.</u>	<u>TCDD Found^a</u>	<u>Minimum Detectable Concentration (Pg/ml)</u>
1-945	W505M7W	N.D.	4
1-1056	W603E7W	2.4 Ng/ml	-
1-1058	W104E7W	N.D.	12
1-1059	W204E7W	N.D.	9
1-1060	W304E7W	N.D.	5
1-1061	W404E7W	N.D.	7
1-1062	W504E7W	N.D.	14
1-1063	W704E7W	N.D.	10
1-1081	W711E7W	N.D.	10
1-1082	W112E7W	N.D.	5
1-1083	W212E7W	N.D.	4
1-1305	W312E7W	N.D.	5
1-1306	W412E7W	N.D.	5
1-1307	W512E7W	N.D.	9
1-1308	D112E7W	N.D.	12
1-1309	D212E7W	N.D.	9
1-1310	D312E7W	N.D.	6
1-1311	D412E7W	N.D.	6
1-1312	D512E7W	N.D.	5
1-1313	D612E7W	N.D.	5

a. N.D. indicates none detected in excess of the minimum detectable concentration.

Table 5

RESULTS OF ANALYSES OF POTABLE AND DRAINAGE WATER SAMPLES
FROM GULFPORT, MISSISSIPPI FOR BUTYL ESTERS OF 2,4-D AND 2,4,5-T

<u>WSU No.</u>	<u>AF No.</u>	<u>2,4-D Found^a</u>	<u>2,4,5-T Found^a</u>	<u>Minimum Detectable Concentration (Ng/ml)</u>
1-870	D103M7W	N.D.	N.D.	0.6
1-871	D203M7W	N.D.	0.33 Ng/ml	0.6
1-872	D303M7W	N.D.	N.D.	0.6
1-874	D503M7W	N.D.	N.D.	0.6
1-875	D603M7W	N.D.	N.D.	0.6
1-876	W103M7W	N.D.	N.D.	0.6
1-877	W203M7W	N.D.	N.D.	0.6
1-878	W303M7W	N.D.	N.D.	0.6
1-879	W403M7W	N.D.	N.D.	0.6
1-891	W306M7W	N.D.	N.D.	0.6
1-892	W406M7W	N.D.	N.D.	0.6
1-893	W506M7W	N.D.	N.D.	0.6
1-904	W124M7W	3.94 Ng/ml	4.25 Ng/ml	-
1-905	W224M7W	N.D.	N.D.	0.6
1-906	W324M7W	3.89 Ng/ml	N.D.	0.6
1-907	W424M7W	N.D.	N.D.	0.6
1-908	W524M7W	N.D.	N.D.	0.6
1-909	W724M7W	N.D.	N.D.	0.6
1-916	W125M7W	N.D.	0.7 Ng/ml	0.6
1-917	W225M7W	1.11 Ng/ml	0.82 Ng/ml	-
1-919	W425M7W	N.D.	N.D.	0.6
1-920	W525M7W	N.D.	N.D.	0.6
1-921	W725M7W	N.D.	N.D.	0.6
1-922	W624M7W	N.D.	2.21 Ng/ml	-
1-938	W104M7W	N.D.	N.D.	0.4
1-942	W205M7W	N.D.	N.D.	0.4
1-943	W305M7W	0.7 Ng/ml	0.9 Ng/ml	-
1-944	W405M7W	N.D.	N.D.	0.4

Table 5 (Continued)

<u>WSU No.</u>	<u>AF No.</u>	<u>2,4,-D Found^a</u>	<u>2,4,5-T Found^a</u>	<u>Minimum Detectable Concentration (Ng/ml)</u>
1-945	W505M7W	Interferences	6.4 Ng/ml	4.4
1-1056	W603E7W	Interferences	89 Ng/ml	63.0
1-1058	W104E7W	N.D.	N.D.	0.4
1-1059	W204E7W	N.D.	N.D.	0.6
1-1060	W304E7W	N.D.	N.D.	0.4
1-1061	W404E7W	N.D.	N.D.	0.4
1-1062	W504E7W	N.D.	N.D.	0.4
1-1063	W704E7W	Interferences	53 Ng/ml	20.0
1-1081	W711E7W	N.D.	N.D.	0.4
1-1082	W112E7W	N.D.	N.D.	0.4
1-1083	W212E7W	N.D.	N.D.	0.4
1-1305	W312E7W	N.D.	N.D.	0.4
1-1306	W412E7W	N.D.	N.D.	0.4
1-1307	W512E7W	Interferences	23 Ng/ml	20.0
1-1308	D112E7W	N.D.	N.D.	0.4
1-1309	D212E7W	N.D.	N.D.	0.4
1-1310	D312E7W	N.D.	N.D.	0.4
1-1311	D412E7W	N.D.	N.D.	0.4
1-1312	D512E7W	N.D.	N.D.	0.4
1-1313	D612E7W	N.D.	N.D.	0.4

a. N.D. indicates none detected in excess of the minimum detectable concentration.

WATER SAMPLES DURING PREOPERATIONAL PERIOD

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\text{L}$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\text{L}$)	CONCENTRATION OF TCDD (mg/L)
W103M7U	COMPOSITE	0.78	0.95	
W203M7U	"	0.13	0.14	
W303M7U	GRAB	ND ¹	ND	
W403M7U	"	ND	ND	
W104M7U/W	COMPOSITE	ND	0.065	<3.8
W204M7U	"	0.18	0.24	
W504M8U	GRAB	ND	ND	
W105M7U	COMPOSITE	ND	0.085	
W205M7U/W	"	ND	0.09	<6.8
W305M7U/W	GRAB	ND	ND	<42
W405M7U/W	"	ND	ND	<4.0
W505M7U/W	COMPOSITE	ND	ND	<3.9
W306M7U	GRAB	ND	ND	
W406M7U	"	ND	ND	
W506M7U	COMPOSITE	ND	ND	
W124M7U	COMPOSITE	1.96	1.01	
W224M7U	"	0.18	0.42	
W324M7U	GRAB	0.70	0.045	
W424M7U	"	ND	0.045	
W524M7U	COMPOSITE	0.48	0.85	
W724M7U	"	0.375	1.34	

ND - Non detected at a detection limit of

WATER SAMPLES DURING OPERATIONAL PERIOD

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\ell$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\ell$)	CONCENTRATION OF TCDD (mg/ℓ)
W126M7U	COMPOSITE	4.93	3.73	
W226M7U	"	0.421	0.51	
W326M7U	GRAB	0.921	0.882	
W426M7U	"	0.729	0.68	
W526M7U	COMPOSITE	0.901	0.771	
W626M7U	GRAB	19,406	14,938	
W726M7U	COMPOSITE	22.89	20.29	
W127M7U	"	1.89	0.912	
W227M7U	"	0.138	0.359	
W327M7U	GRAB	0.029	ND	
W427M7U	"	0.173	0.204	
W527M7U	COMPOSITE	ND	ND	
W627M7U	"	15,600	11,368	
W727M7U	"	11.44	11.40	
W128M7U	"	1.21	2.10	
W228M7U	"	0.385	0.566	
W328M7U	GRAB	0.311	1.35	
W428M7U	"	0.417	0.538	
W528M7U	COMPOSITE	2.28	1.85	
W628M7U	"	34,540	25,540	
W728M7U	"	82.13	99.82	
W129M7U	"	1.17	1.44	
W229M7U	"	1.09	1.34	
W329M7U	GRAB	0.259	0.374	
W429M7U	"	1.10	0.929	
W529M7U	COMPOSITE	0.738	0.869	
W130M7U	"	2.11	1.55	
W230M7U	"	0.61	1.23	

WATER SAMPLES DURING OPERATIONAL PERIOD (Cont'd)

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\ell$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\ell$)	CONCENTRATION OF TCDD (mg/ ℓ)
W330M7U	GRAB	9.82	8.46	
W430M7U	"	ND	ND	
W530M7U	COMPOSITE	1.50	1.65	
W131M7U	"	248.4	317.49	
W231M7U	"	3.64	3.69	
W331M7U	GRAB	0.859	0.888	
W431M7U	"	1.25	1.64	
W531M7U	COMPOSITE	5.23	6.62	
W201E7U	"	8.34	9.73	
W301E7U	GRAB	1.48	1.93	
W401E7U	"	0.828	1.32	
W501E7U	COMPOSITE	0.75	1.19	
W601E7U	"	2390.61	947.22	
W701E7U	"	173.58	123.98	
W303E7U	"	1023.03	3451.27	
W203E7U	"	1165.47	3062.17	<9.1
W303E7U	GRAB	4.66	4.56	
W403E7U	"	2.46	2.04	
W503E7U	COMPOSITE	1.09	2.04	
W603E7U/W	COMPOSITE	1431817	954269	2400
W703E7U	"	158.27	285.97	
W104E7U/W	"	61.43	175.77	<12.1
W204E7U	"	305.08	536.06	
W304E7U/W	GRAB	0.191	0.060	<4.8

WATER SAMPLES DURING OPERATIONAL PERIOD (Cont'd)

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\ell$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\ell$)	CONCENTRATION OF TCDD (mg/ℓ)
W105E7U	COMPOSITE	17.94	97.57	
W205E7U	"	135.72	407.12	
W305E7U	GRAB	0.79	0.254	
W405E7U	"	0.151	0.176	
W505E7U	COMPOSITE	1.44	2.21	
W106E7U	"	1.40	8.29	
W206E7U	"	98.55	464.92	
W306E7U	GRAB	0.64	0.706	
W406E7U	"	0.097	0.10	
W506E7U	COMPOSITE	0.206	0.238	
W107E7U	"	1.12	4.91	
W207E7U	"	1.30	7.26	
W307E7U	GRAB	0.97	0.93	
W407E7U	"	0.028	ND	
W507E7U	COMPOSITE	0.687	0.713	
W607E7U	"	2090.25	20106	
W707E7U	"	90.61	81.0	
W108E7U	"	1.04	3.14	
W208E7U	"	5.94	10.44	
W308E7U	GRAB	0.45	1.09	
W408E7U	"	0.93	0.924	
W508E7U	COMPOSITE	0.374	0.911	
W608E7U	"	40855	57172	
W708E7U	"	12.06	67.29	
W109E7U	"	0.046	2.35	
W209E7U	"	1.20	0.87	
W309E7U	GRAB	0.545	0.311	
W409E7U	"	0.700	0.487	
W509E7U	COMPOSITE	1.154	1.125	

WATER SAMPLES DURING OPERATIONAL PERIOD (Cont'd)

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\ell$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\ell$)	CONCENTRATION OF TCDD (mg/ℓ)
W609E7U	COMPOSITE	185.25	197.472	
W110E7U	"	1.55	9.66	
W210E7U	"	49.50	96.75	
W310E7U	GRAB	0.13	0.12	
W410E7U	"	ND	ND	
W510E7U	COMPOSITE	0.13	0.12	
W710E7U	"	7.08	3.74	

WATER SAMPLES DURING POSTOPERATIONAL PERIOD

SAMPLE NUMBER (CODE)	SAMPLE TYPE	CONCENTRATION OF 2,4-D ($\mu\text{g}/\ell$)	CONCENTRATION OF 2,4,5-T ($\mu\text{g}/\ell$)	CONCENTRATION OF TCDD (mg/ℓ)
W111E7U	COMPOSITE	1.950	7.815	
W211E7U	"	ND	27.0	
W311E7U	GRAB	0.09	0.06	
W411E7&	"	0.314	0.054	
W511E7U	COMPOSITE	0.45	0.32	
W611E7U	"	2.4	3.78	
W711E7W	"	-	0.037	<10.4
W112E7U	"	ND	-	<5.4
W212E7U	"	ND	14.51	<4.3
W312E7U	GRAB	0.045	0.037	<5.4
W412E7U	"	0.105	0.093	<5.3
W512E7U	COMPOSITE	0.724	0.935	<9.0
W113E7U	"	2.09	10.77	
W213E7U	"	1.79	38.62	

Table II Results of Water Samples from H0 Storage Area NCBC Gulfport - May 1974, Oct 1976

Sample Site		* 2,4-D µg/l			* 2,4,5-T µg/l			TCDD Pg/ml				
		Number of Samples	Min	Max	Avg	Min	Max	Avg	Number of Samples	Min	Max	Avg
EPA 1	Drainage ditch - North End PAD #64	5	ND**	240.5	53.5	ND	493.7	133.4	-	0	0	0
EPA 2	Base perimeter - exit of drainage ditch	6	ND	0.57	0.15	ND	0.3	0.1	3	0	0	0
EPA 3	Drainage ditch - North End PAD #59	5	ND	1928.4	409.4	ND	390	0	8	0	0	0
IIA	Drainage ditch - before bauxite pile	2	55.9	326	190.9	83.7	955.2	519.4	6	0	46	7.7
IIB	Drainage ditch - after bauxite pile	5	ND	178.3	46.1	ND	302.5	128.1	4	0	0	0
IIC	Further down stream of IIB	1	ND	ND	-	ND	ND	-	0	-	-	-
IIIA	Drainage from Industrial area	2	ND	ND	-	ND	ND	-	0	-	-	-
-	Back bay of Biloxi	0	-	-	-	-	-	-	2	0	0	0
* Includes both acid and ester forms of the herbicide												
** Non-detectable												

ater (continued)

HL #	WSU #	DATE	EHL CODE	LOCATION	TCDD
	1-101	15 Oct 75	-	Ditch near H0 storage	0
	1-102	15 Oct 75	-	Before bauxite pile	46 pg/ml
	1-103	15 Oct 75	-	After bauxite pile	0
	1-104	15 Oct 75	-	Before base exit	0
28	1-414	27 Jan 76	EW27J11K	After bauxite pile	0
27	1-412	4 Feb 76	EW04F11K	After bauxite pile	0
31	1-413	11 Feb 76	EW11F11K	After bauxite pile	0
	1-425	21 Apr 76	-	At base exit	0
	1-426	21 Apr 76	-	At base exit	0
	1-427	21 Apr 76	-	Ditch near H0 storage (old EPA 3)	0
	1-428	21 Apr 76	-	Ditch near H0 storage (old EPA 3)	0
	1-429	21 Apr 76	-	Back Bay of Biloxi	0
	1-430	21 Apr 76	-	Back Bay of Biloxi	0

APPENDIX A

II-E-1

Completed Analyses on Environmental
Samples Collected at NCBC, Gulfport
as of 20 September 1976

WATER

EHL #	GP #	DATE	ESTER		ACID		TCDD
			D	T	D	T	
9621	EPA 1	24 Jun 75	ND	ND	ND	ND	-
11409	EPA 1	2 Aug 75	12.7µg/l	43.3µg/l	4.1µg/l	4.3µg/l	-
12085	EPA 1	8 Aug 75	0.88µg/l	2.3µg/l	239.6µg/l	491.4µg/l	-
12085	EPA 1	12 Aug 75	0.03µg/l	0.05µg/l	10.2µg/l	56.0µg/l	-
12637	EPA 1	21 Aug 75	ND	ND	ND	69.9µg/l	-
9623	EPA 3	24 Jun 75	ND	ND	6.1µg/l	4.4µg/l	-
11411	EPA 3	2 Aug 75	T	T	4.5µg/l	4.6µg/l	-
12083	EPA 3	8 Aug 75	ND	ND	ND	ND	-
12084	EPA 3	12 Aug 75	ND	ND	107.8µg/l	126.5µg/l	-
12638	EPA 3	23 Aug 75	ND	ND	1928.4µg/l	1814.7µg/l	-
12087	IIA	12 Aug 75	ND	ND	55.9µg/l	83.7µg/l	-
12639	IIA	23 Aug 75	ND	ND	326.0µg/l	955.2µg/l	-
12088	IIB	12 Aug 75	ND	ND	22.2µg/l	28.6µg/l	-
12634	IIE	15 Aug 75	T	T	ND	302.5µg/l	-
12635	IIB	18 Aug 75	ND	ND	ND	ND	-
12636	IIB	21 Aug 75	ND	ND	178.3µg/l	237.8µg/l	-
12640	IIB	23 Aug 75	ND	ND	30.1µg/l	71.4µg/l	-
12641	IIC	23 Aug 75	ND	ND	ND	ND	-
12089	IIIA	12 Aug 75	ND	ND	ND	ND	-
12642	IIIA	23 Aug 75	ND	ND	ND	ND	-
9622	EPA 2	24 Jun 75	ND	ND	0.6µg/l	0.3µg/l	-
11410	EPA 2	2 Aug 75	T	T	0.3µg/l	0.3µg/l	-
12090	EPA 2	12 Aug 75	ND	ND	ND	ND	-
12091	EPA 2	12 Aug 75	ND	ND	ND	ND	-
12633	EPA 2	14 Aug 75	ND	ND	ND	ND	-
12643	EPA 2	23 Aug 75	ND	ND	ND	ND	-
-	H ₂ O blank	2 Aug 75	0.5µg/l	3.3µg/l	1.1µg/l	1.2µg/l	-